AIR QUALITY, HEALTH RISK, GREENHOUSE GAS, AND ENERGY IMPACT REPORT

POPLAR SOUTH DISTRIBUTION CENTER PROJECT

CITY OF FONTANA, CALIFORNIA

LSA

February 2023

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CITY OF FONTANA, CALIFORNIA

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LIST OF ABBREVIATIONS AND ACRONYMS

°C	degrees Celsius
°F	degrees Fahrenheit
µg/m^3	micrograms per cubic meter
AAQS	ambient air quality standards
AB	Assembly Bill
ADA	Americans with Disabilities Act
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
Basin	South Coast Air Basin
BAU	business-as-usual
BTU	British thermal units
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CARB	California Air Resources Board
CAT	Climate Action Team
CBC	California Building Code
CBSC	California Building Standards Commission
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH_4	methane
City	City of Fontana

CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
County	County of San Bernardino
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EIA	Energy Information Administration
EIR	Environmental Impact Report
EMFAC	California Emissions Factor Model
EO	Executive Order
EV	electric vehicle
GCC	global climate change
GHG	greenhouse gas
GHGRP	Greenhouse Gas Reduction Plan
GWh	gigawatt-hour
GWP	global warming potential
H_2S	hydrogen sulfide
HFCs	hydrofluorocarbons
HI	Hazard Index
HRA	Health Risk Assessment
I-10	Interstate 10
IPCC	Intergovernmental Panel on Climate Change
kWh	kilowatt-hour
lbs/day	pounds per day
LCFS	Low Carbon Fuel Standard
MEI	maximally exposed individual
mg/m^3	milligrams per cubic meter
MICR	maximum individual cancer risk
MMT	million metric tons
MMT CO_2e	million metric tons of carbon dioxide equivalent
mpg	miles per gallon

mph	miles per hour
MPO	Metropolitan Planning Organization
MT	metric tons
MT CO_2e	metric tons of carbon dioxide equivalent
MT CO_2e/yr	metric tons of carbon dioxide equivalent per year
MW	megawatt
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
O_3	ozone (or smog)
OPR	Governor's Office of Planning and Research
PFCs	perfluorocarbons
PM	particulate matter
$PM_{2.5}$	particulate matter less than 2.5 microns in size
PM_{10}	particulate matter less than 10 microns in size
ppb	parts per billion
ppm	parts per million
PRC	Public Resources Code
project	Poplar South Distribution Center Project
RCP	Regional Comprehensive Plan
ROCs	reactive organic compounds
ROGs	reactive organic gases
RPS	Renewables Portfolio Standard
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SBCOG	San Bernardino Council of Governments

SCAG	Southern California Association of Governments
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SO_2	sulfur dioxide
SO_X	sulfur oxides
SoCalGas	Southern California Gas Company
sq ft	square foot/feet
sq mi	square mile
SRA	Source Receptor Area
TAC	toxic air contaminant
UNFCCC	United Nations Framework Convention on Climate Change
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
VMT	vehicle miles traveled
VOCs	volatile organic compounds
ZEV	zero-emission vehicle
ZNE	zero net energy

INTRODUCTION

This Air Quality, Heath Risk, Energy, and Greenhouse Gas (GHG) Impact Report has been prepared to evaluate the potential air quality and GHG emissions impacts associated with the Poplar South Distribution Center Project (project) in the City of Fontana (City), County of San Bernardino (County), California. This report follows the guidelines identified by the South Coast Air Quality Management District (SCAQMD) in its *California Environmental Quality Act (CEQA) Air Quality Handbook*,[1] and associated updates. In keeping with these guidelines, this analysis describes existing air quality, including air quality and GHG emissions generated from project-related sources, regional air pollution, and global climate change. In addition, this analysis discusses energy use resulting from implementation of the proposed project and evaluates whether the proposed project would result in the wasteful, inefficient, or unnecessary consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency.

PROJECT LOCATION AND DESCRIPTION

The 19.08-acre project site is located near existing Rose Avenue south of Santa Ana Avenue, west of Catawba Avenue, north of Jurupa Avenue, and east of Poplar Avenue in Fontana, San Bernardino County, California (Assessor's Parcel Numbers [APNs]: 0237-171-01 through -19, 0237-172-01 through -12, -19, -22, -23, -26, -27, -28, and -30 through -33). The project site is currently developed with 40 existing single-family residential units and accessory structures. Regional access to the project site is provided by Interstate 10 (I-10) off the Citrus Avenue exit. Local access is provided via Poplar Avenue and Catawba Avenue. See Figure 1, Regional Project Location, and Figure 2, Site Plan, below.

The project proposes the demolition of the existing 40 residences on the site and associated structures to construct a 490,595-square-foot (sq ft) industrial warehouse building, including office space. The project would include approximately 62,000 sq ft of landscaping around the perimeter of the site and in between parking areas. The proposed project would include 210 passenger parking spaces including electric vehicle (EV) and accessible Americans with Disabilities Act (ADA) spaces, 98 trailer spaces, and 42 loading dock doors.

Typical operational characteristics include employees traveling to and from the site, delivery of products to the site, truck loading and unloading, and truck maintenance operations. The project is assumed to operate 24 hours per day, 7 days per week; however, this may shift depending on the tenant, as the hours of operation are unknown. In addition, the proposed project would include a 200 horsepower (hp) diesel fire pump, which is expected to run approximately one hour per month. The proposed project would also install a solar energy system to comply with the City's requirements for buildings over 400,000 sq ft. In addition, the proposed project would not be powered by natural gas, and no natural gas demand is anticipated during construction or operation of the proposed project.

[1] South Coast Air Quality Management District (SCAQMD). 1993. *CEQA Air Quality Handbook*. Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993) (accessed January 2023).



LSA

LEGEND

Project Location

FIGURE 1

N

0 1000 2000

FEET

SOURCE: Bing Maps (2021)

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Poplar South Distribution Center

Regional Project Location

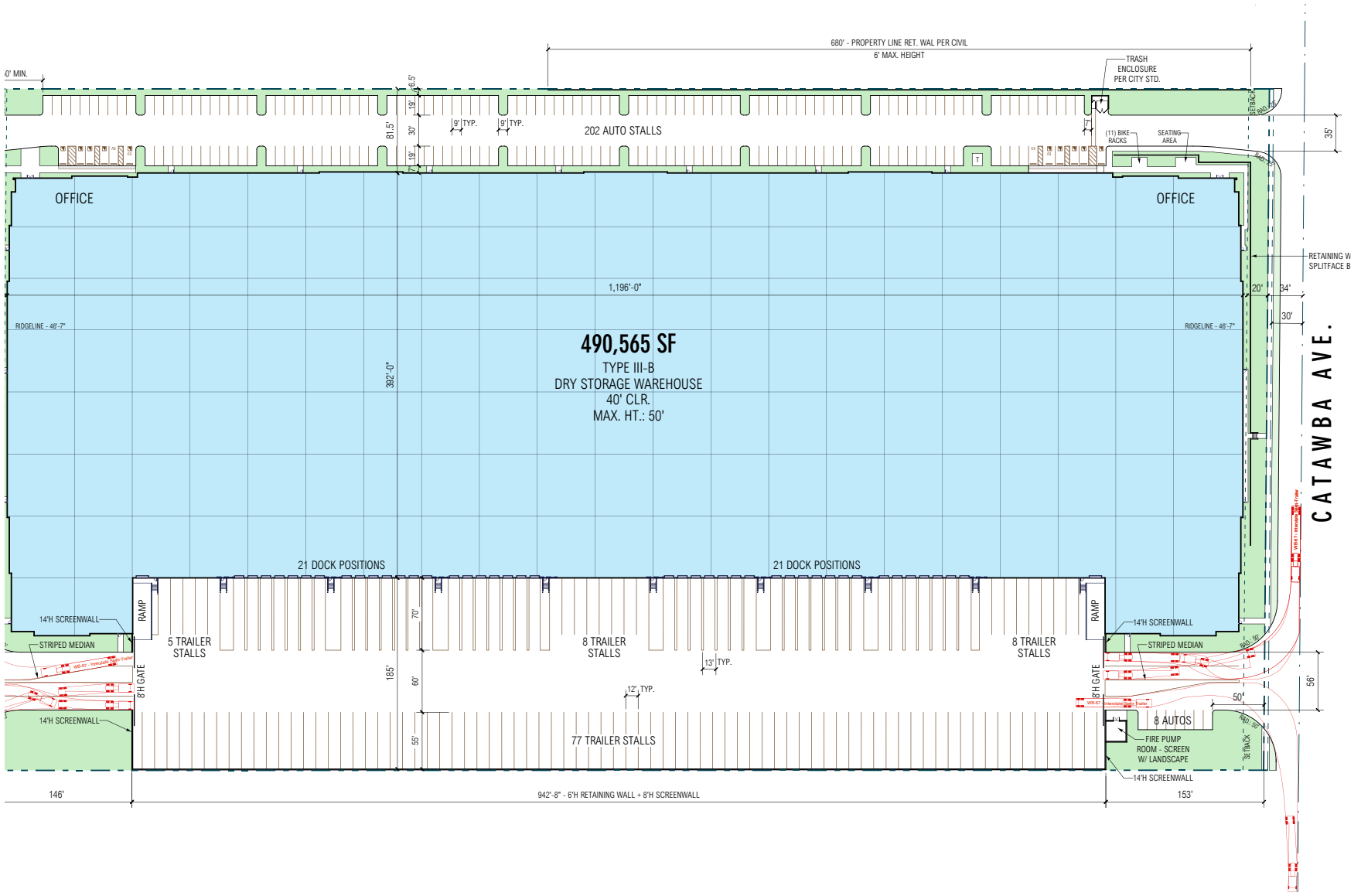


FIGURE 2

LSA

N

0 110 220
FEET

SOURCE: RGA Architecture

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Poplar South Distribution Center

Site Plan

The proposed project would generate approximately 687 average daily trips, including 547 passenger vehicle trips, 24 two-axle truck trips, 32 three-axle truck trips, and 84 four+-axle truck trips[2].

Construction is anticipated to begin in April 2024 and be completed in 10 months, ending in January 2025. The proposed project would require the export of approximately 48,492 cubic yards and the import of 39,749 cubic yards of soil, for a net export of 8,743 cubic yards of soil. Construction activities for the project include demolition, grading and excavation, site preparation, building construction, landscape installation, paving, and architectural coatings.

EXISTING LAND USES IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses which are sensitive to air quality. Impacts on sensitive receptors are of particular concern because they are the population most vulnerable to the effects of air pollution. The project site is surrounded primarily by industrial and commercial uses. Land uses in the project area include an existing warehouse to the north, an existing motor vehicle dealer to the west, a warehouse to the south, and a trucking company to the east.

There are no sensitive receptors located within 1,000 feet of the project site. The closest sensitive receptors to the project site are residential uses such as single-family homes located approximately 1,325 feet northeast of the project northern boundary, south of Tyrol Drive, and the single-family residences located approximately 1,500 feet south of the project boundary line, south of Jurupa Avenue.

[2] Environment Planning Development Solutions, Inc. 2022. *Poplar South Distribution Center Trip Generation and Vehicle Miles Traveled (VMT) Screening Analysis*. September 8.

BACKGROUND

This section provides current background information on air pollutants and their health effects. It also provides current regulatory background information, including information from the California Air Resources Board's (CARB) Air Quality and Land Use Handbook[3] (CARB Handbook); a description of the general health risks of toxics, and the significance criteria for project evaluation.

AIR POLLUTANTS AND HEALTH EFFECTS

Both State and federal governments have established health-based ambient air quality standards (California Ambient Air Quality Standards [CAAQS] and National Ambient Air Quality Standards [NAAQS], respectively) for six criteria air pollutants:[4] carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and suspended particulate matter (PM). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Long-term exposure to elevated levels of criteria pollutants may result in adverse health effects. However, emission thresholds established by an air district are used to manage total regional emissions within an air basin based on the air basin's attainment status for criteria pollutants. These emission thresholds were established for individual projects that would contribute to regional emissions and pollutant concentrations and could adversely affect or delay the projected attainment target year for certain criteria pollutants.

Because of the conservative nature of the thresholds and the basin-wide context of individual project emissions, there is no known direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as ozone precursors like nitrogen oxides (NO_X) and volatile organic compounds (VOCs).

Occupants of facilities such as schools, daycare centers, parks and playgrounds, hospitals, and nursing and convalescent homes are considered to be more sensitive than the general public to air pollutants because these population groups have increased susceptibility to respiratory disease. Persons engaged in strenuous outdoor work or exercise also have increased sensitivity to poor air quality. Residential areas are considered more sensitive to air quality conditions, compared to commercial and industrial areas, because people generally spend longer periods of time at their residences, with greater associated exposure to ambient air quality conditions. Recreational uses are also considered sensitive compared to commercial and industrial uses due to greater exposure to ambient air quality conditions associated with exercise.

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3 California Air Resources Board (CARB), 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

4 Criteria pollutants are defined as those pollutants for which the federal and State governments have established ambient air quality standards, or criteria, for outdoor concentrations in order to protect public health.

Ozone

Rather than being directly emitted, ozone (O_3 or smog) is formed by photochemical reactions between NO_X and VOCs. Ozone is a pungent, colorless gas. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children. Ozone levels peak during the summer and early fall months.

Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions. CO passes through the lungs into the bloodstream, where it interferes with the transfer of oxygen to body tissues.

Particulate Matter

Particulate matter (PM) is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles are those that are 10 microns or less in diameter, or PM_{10}. Fine, suspended particulate matter with an aerodynamic diameter of 2.5 microns or less, or $PM_{2.5}$, is not readily filtered out by the lungs. Nitrates, sulfates, dust, and combustion particulates are major components of PM_{10} and $PM_{2.5}$. These small particles can be directly emitted into the atmosphere as byproducts of fuel combustion; through abrasion, such as tire or brake lining wear; or through fugitive dust (wind or mechanical erosion of soil). They can also be formed in the atmosphere through chemical reactions. Particulates may transport carcinogens and other toxic compounds that adhere to the particle surfaces and can enter the human body through the lungs.

Nitrogen Dioxide

Nitrogen dioxide (NO_2) is a reddish brown gas that is a byproduct of combustion processes. Automobiles and industrial operations are the main sources of NO_2. Aside from its contribution to ozone formation, NO_2 also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. NO_2 may be visible as a coloring component on high pollution days, especially in conjunction with high ozone levels. NO_2 decreases lung function and may reduce resistance to infection.

Sulfur Dioxide

Sulfur dioxide (SO_2) is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels in the region. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

Lead

Leaded gasoline (phased out in the United States beginning in 1973), paint (on older houses and cars), smelters (metal refineries), and the manufacture of lead storage batteries have been the primary sources of lead (Pb) released into the atmosphere. Lead has multiple adverse neurotoxic health effects, and children are at special risk. Some lead-containing chemicals cause cancer in

animals. Lead levels in the air have decreased substantially since leaded gasoline was eliminated. Ambient lead concentrations are only monitored on an as-warranted, site-specific basis in California. On October 15, 2008, the United States Environmental Protection Agency (USEPA) strengthened the NAAQS for lead by lowering it from 1.5 to 0.15 micrograms per cubic meter ($\mu g/m^3$). The USEPA revised the monitoring requirements for lead in December 2010. These requirements focus on airports and large urban areas, resulting in an increase in 76 monitors nationally.

Volatile Organic Compounds

VOCs (also known as reactive organic gases [ROGs] and reactive organic compounds [ROCs]) are formed from the combustion of fuels and the evaporation of organic solvents. VOCs are not defined as criteria pollutants, however, because VOCs accumulate in the atmosphere more quickly during the winter, when sunlight is limited and photochemical reactions are slower, they are a prime component of the photochemical smog reaction. There are no attainment designations for VOCs.

Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated by the USEPA and the CARB. Some examples of TACs include benzene, butadiene, formaldehyde, and hydrogen sulfide. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants.

TACs do not have ambient air quality standards (AAQS), but are regulated by the USEPA, CARB, and the SCAQMD. In 1998, the CARB identified particulate matter from diesel-fueled engines as a TAC. The CARB has completed a risk management process that identified potential cancer risks for a range of activities using diesel-fueled engines.[5] High-volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic (e.g., distribution centers and truck stops) were identified as posing the highest risk to adjacent receptors. Other facilities associated with increased risk include warehouse distribution centers, large retail or industrial facilities, high-volume transit centers, and schools with a high volume of bus traffic. Health risks from TACs are a function of both concentration and duration of exposure.

Unlike TACs emitted from industrial and other stationary sources noted above, most diesel particulate matter (DPM) is emitted from mobile sources—primarily "off-road" sources such as construction and mining equipment, agricultural equipment, and truck-mounted refrigeration units, as well as "on-road" sources such as trucks and buses traveling on freeways and local roadways.

Although not specifically monitored, recent studies indicate that exposure to DPM may contribute significantly to a cancer risk (a risk of approximately 500 to 700 in 1,000,000) that is greater than all other measured TACs combined.[6] The technology for reducing DPM emissions from heavy-duty trucks is well established, and both State and federal agencies are moving aggressively to regulate engines and emission control systems to reduce and remediate diesel emissions. The CARB anticipated that by

[5] CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

[6] Ibid.

2020, average statewide DPM concentrations will decrease by 85 percent from levels in 2000 with full implementation of the CARB's Diesel Risk Reduction Plan,[7] meaning that the statewide health risk from DPM is expected to decrease from 540 cancer cases in 1,000,000 to 21.5 cancer cases in 1,000,000. The CARB 2000 Diesel Risk Reduction Plan is still the most recent version and has not been updated.

Table A summarizes the sources and health effects of air pollutants discussed in this section. Table B presents a summary of CAAQS and NAAQS.

Table A: Sources and Health Effects of Air Pollutants

Pollutants	Sources	Primary Effects
Carbon Monoxide (CO)	• Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust • Natural events, such as decomposition of organic matter	• Reduced tolerance for exercise • Impairment of mental function • Impairment of fetal development • Death at high levels of exposure • Aggravation of some heart diseases (angina)
Nitrogen Dioxide (NO_2)	• Motor vehicle exhaust • High temperature stationary combustion • Atmospheric reactions	• Aggravation of respiratory illness • Reduced visibility • Reduced plant growth • Formation of acid rain
Ozone (O_3)	• Atmospheric reaction of organic gases with nitrogen oxides in sunlight	• Aggravation of respiratory and cardiovascular diseases • Irritation of eyes • Impairment of cardiopulmonary function • Plant leaf injury
Lead (Pb)	• Contaminated soil	• Impairment of blood functions and nerve construction • Behavioral and hearing problems in children
Suspended Particulate Matter ($PM_{2.5}$ and PM_{10})	• Stationary combustion of solid fuels • Construction activities • Industrial processes • Atmospheric chemical reactions	• Reduced lung function • Aggravation of the effects of gaseous pollutants • Aggravation of respiratory and cardiorespiratory diseases • Increased cough and chest discomfort • Soiling • Reduced visibility
Sulfur Dioxide (SO_2)	• Combustion of sulfur-containing fossil fuels • Smelting of sulfur-bearing metal ores Industrial processes	• Aggravation of respiratory diseases (asthma, emphysema) • Reduced lung function • Irritation of eyes • Reduced visibility • Plant injury • Deterioration of metals, textiles, leather, finishes, coatings, etc.

Source: California Air Resources Board (2015).

[7] CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

Table B: Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]		Federal Standards[b]		
		Concentration[c]	Method[d]	Primary[c,e]	Secondary[c,f]	Method[g]
Ozone (O_3)[h]	1-Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	–	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.07 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM_{10})[i]	24-Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		–		
Fine Particulate Matter ($PM_{2.5}$)[i]	24-Hour	-		35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³		
Carbon Monoxide (CO)	8-Hour	9.0 ppm (10 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	–	Non-Dispersive Infrared Photometry (NDIR)
	1-Hour	20 ppm (23 mg/m³)		35 ppm (40 mg/m³)		
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m³)		–	–	
Nitrogen Dioxide (NO_2)[j]	Annual Arithmetic Mean	0.03 ppm (57 µg/m³)	Gas Phase Chemi-luminescence	53 ppb (100 µg/m³)	Same as Primary Standard	Gas Phase Chemi-luminescence
	1-Hour	0.18 ppm (339 µg/m³)		100 ppb (188 µg/m³)	-	
Lead (Pb)[l,m]	30-Day Average	1.5 µg/m³	Atomic Absorption	–	–	High-Volume Sampler and Atomic Absorption
	Calendar Quarter	–		1.5 µg/m³ (for certain areas)[l]	Same as Primary Standard	
	Rolling 3-Month Average[i]	–		0.15 µg/m³		
Sulfur Dioxide (SO_2)[k]	24-Hour	0.04 ppm (105 µg/m3)	Ultraviolet Fluorescence	0.14 ppm (for certain areas)	–	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)
	3-Hour	–		–	0.5 ppm (1300 µg/m³)	
	1-Hour	0.25 ppm (655 µg/m³)		75 ppb (196 µg/m³)[k]	–	
	Annual Arithmetic Mean	–		0.030 ppm (for certain areas)[k]	–	
Visibility-Reducing Particles[l]	8-Hour	See footnote n	Beta Attenuation and Transmittance through Filter Tape.	No Federal Standards		
Sulfates	24-Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[j]	24-Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

Source: California Air Resources Board (2016) (Website: https://www.arb.ca.gov/research/aaqs/aaqs2.pdf).

Table notes are provided on the following page.

[a] California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California Ambient Air Quality Standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

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

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

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

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

[f] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[g] Reference method as described by the USEPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the USEPA.

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

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24- hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

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

[k] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

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

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

[n] In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

°C = degrees Celsius
µg/m^3 = micrograms per cubic meter
CARB = California Air Resources Board
mg/m^3 = milligrams per cubic meter
ppb = parts per billion
ppm = parts per million
USEPA = United States Environmental Protection Agency

ENERGY

Electricity

Electricity is a manmade resource. The production of electricity requires the consumption or conversion of energy resources (including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources) into energy. Electricity is used for a variety of purposes (e.g., lighting, heating, cooling, and refrigeration, and for operating appliances, computers, electronics, machinery, and public transportation systems).

According to the most recent data available, in 2020, California's electricity was generated primarily by natural gas (37.06 percent), renewable sources (33.09 percent), large hydroelectric (12.21 percent), nuclear (9.33 percent), coal (2.74 percent), and other and unspecified sources. Total electric generation in California in 2020 was 272,576 gigawatt-hours (GWh), down 2 percent from the 2019 total generation of 277,704 GWh.[8]

The project site is within the service territory of Southern California Edison (SCE). SCE provides electricity to more than 15 million people in a 50,000-square-mile (sq mi) area of Central, Coastal, and Southern California.[9] According to the California Energy Commission (CEC), total electricity consumption in the SCE service area in 2021 was 103,045 GWh (36,375 GWh for the residential sector and 51,057 GWh for the non-residential sector). Total electricity consumption in San Bernardino County in 2021 was 16,180.8 GWh (16,180,811,158 kilowatt-hours (kWh).[10]

Natural Gas

Natural gas is a non-renewable fossil fuel. Fossil fuels are formed when layers of decomposing plant and animal matter are exposed to intense heat and pressure under the surface of the Earth over millions of years. Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas is found in naturally occurring reservoirs in deep underground rock formations. Natural gas is used for a variety of uses (e.g., heating buildings, generating electricity, and powering appliances such as stoves, washing machines and dryers, gas fireplaces, and gas grills).

Natural gas consumed in California is used for electricity generation (45 percent), residential uses (21 percent), industrial uses (25 percent), and commercial uses (9 percent). California continues to depend on out-of-state imports for nearly 90 percent of its natural gas supply.[11]

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8 California Energy Commission (CEC). 2021a. *2020 Total System Electric Generation*. Website: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation (accessed January 2023).

9 Southern California Edison (SCE). 2020. About Us. Website: https://www.sce.com/about-us/who-we-are (accessed January 2023).

10 CEC. 2020a. Electricity Consumption by County and Entity. Website: http://www.ecdms.energy.ca.gov/elecbycounty.aspx and http://www.ecdms.energy.ca.gov/elecbyutil.aspx (accessed January 2023).

11 CEC. 2021c. Supply and Demand of Natural Gas in California. Website: https://www.energy.ca.gov/data-reports/energy-almanac/californias-natural-gas-market/supply-and-demand-natural-gas-california (accessed January 2023).

The Southern California Gas Company (SoCalGas) is the natural gas service provider for the project site. SoCalGas provides natural gas to approximately 21.8 million people in a 24,000 sq mi service area throughout Central and Southern California, from Visalia to the Mexican border.[12] According to the CEC, total natural gas consumption in the SoCalGas service area in 2021 was 6,755 million therms (2,308 million therms for the residential sector). Total natural gas consumption in San Bernardino County in 2021 was 561 million therms (561,360,617 therms).[13]

Fuel

Petroleum is also a non-renewable fossil fuel. Petroleum is a thick, flammable, yellow-to-black mixture of gaseous, liquid, and solid hydrocarbons that occurs naturally beneath the earth's surface. Petroleum is primarily recovered by oil drilling. It is refined into a large number of consumer products, primarily fuel oil, gasoline, and diesel.

The average fuel economy for light-duty vehicles (autos, pickups, vans, and SUVs) in the United States has steadily increased from about 14.9 miles per gallon (mpg) in 1980 to 22.9 mpg in 2020.[14] Federal fuel economy standards have changed substantially since the Energy Independence and Security Act was passed in 2007. The Act, which originally mandated a national fuel economy standard of 35 mpg by year 2020[15], applies to cars and light trucks of Model Years 2011 through 2020. In March 2020, the United States Environmental Protection Agency (USEPA) and National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy (CAFE) standards for Model Years 2024–2026 Passenger Cars and Light Trucks, further detailed below.

Gasoline is the most used transportation fuel in California, with 97 percent of all gasoline being consumed by light-duty cars, pickup trucks, and sport utility vehicles. According to the most recent data available, total gasoline consumption in California was 289,918 thousand barrels or 1,464.7 trillion British Thermal Units (BTU) in 2020.[16] Of the total gasoline consumption, 273,289 thousand barrels or 1,380.7 trillion BTU were consumed for transportation.[17] Based on fuel consumption obtained from CARB's California Emissions Factor Model, Version 2021 (EMFAC2021), approximately

12 Southern California Gas Company (SoCalGas). 2020. About SoCalGas. Website: https://www3.socalgas.com/about-us/company-profile (accessed January 2023).

13 CEC. 2020b. Gas Consumption by County and Entity. Website: http://www.ecdms.energy.ca.gov/gasbycounty.aspx and http://www.ecdms.energy.ca.gov/gasbyutil.aspx (accessed January 2023).

14 U.S. Department of Transportation (USDOT). "Table 4-23: Average Fuel Efficiency of U.S. Light Duty Vehicles." Website: https://www.bts.dot.gov/bts/bts/content/average-fuel-efficiency-us-light-duty-vehicles (accessed January 2023).

15 U.S. Department of Energy. 2007. "Energy Independence & Security Act of 2007." Website: https://www.afdc.energy.gov/laws/eisa (accessed January 2023).

16 A British Thermal Unit is defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit.

17 U.S. Department of Energy, Energy Information Administration (EIA). 2021a. California State Profile and Energy Estimates. Table F3: Motor gasoline consumption, price, and expenditure estimates, 2020. Website: eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_mg.html&sid=CA (accessed January 2023).

907.3 million gallons of gasoline and approximately 325.0 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2023.

GREENHOUSE GASES AND GLOBAL CLIMATE CHANGE

Global climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans in recent decades. The Earth's average near-surface atmospheric temperature rose 0.6 ± 0.2° Celsius (°C) or 1.1 ± 0.4° Fahrenheit (°F) in the 20th century. The prevailing scientific opinion on climate change is that most of the warming observed over the last 50 years is attributable to human activities. The increased amounts of carbon dioxide (CO_2) and other GHGs are the primary causes of the human-induced component of warming. GHGs are released by the burning of fossil fuels, land clearing, agriculture, and other activities, and lead to an increase in the greenhouse effect.[18]

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- CO_2
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur hexafluoride (SF_6)

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere, and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally-occurring GHGs such as CO_2, methane, and N_2O, some gases, like HFCs, PFCs, and SF_6 are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation. For the purposes of this air quality analysis, the term "GHGs" will refer collectively to the six gases listed above.

[18] The temperature on Earth is regulated by a system commonly known as the "greenhouse effect." Just as the glass in a greenhouse lets heat from sunlight in and reduces the heat escaping, greenhouse gases like carbon dioxide, methane, and nitrous oxide in the atmosphere keep the Earth at a relatively even temperature. Without the greenhouse effect, the Earth would be a frozen globe; thus, although an excess of greenhouse gas results in global warming, the naturally occurring greenhouse effect is necessary to keep our planet at a comfortable temperature.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The global warming potential is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to carbon dioxide, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e). Table C shows the GWP for each type of GHG. For example, SF_6 is 23,900 times more potent at contributing to global warming than CO_2.

Table C: Global Warming Potential of Greenhouse Gases

Gas	Atmospheric Lifetime (Years)	Global Warming Potential (100-Year Time Horizon)
Carbon Dioxide	50-200	1
Methane	12	25
Nitrous Oxide	114	310
HFC-23	270	11,700
HFC-134a	14	140
HFC-152a	1.4	140
PFC: Tetrafluoromethane (CF_4)	50,000	6,500
PFC: Hexafluoromethane (C_2F_6)	10,000	9,200
Sulfur Hexafluoride (SF_6)	3,200	23,900

Source: *Second Update to the Climate Change Scoping Plan: Building on the Framework* (CARB 2017). Website: www.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2017-scoping-plan-documents (accessed January 2023).

The following discussion summarizes the characteristics of the six GHGs and black carbon.

Carbon Dioxide

In the atmosphere, carbon generally exists in its oxidized form, as carbon dioxide (CO_2). Natural sources of CO_2 include the respiration (breathing) of humans, animals and plants, volcanic out gassing, decomposition of organic matter and evaporation from the oceans. Human caused sources of CO_2 include the combustion of fossil fuels and wood, waste incineration, mineral production, and deforestation. Natural sources release approximately 150 billion tons of CO_2 each year, far outweighing the 7 billion tons of man-made emissions of CO_2 each year. Nevertheless, natural removal processes, such as photosynthesis by land- and ocean-dwelling plant species, cannot keep pace with this extra input of man-made CO_2, and consequently, the gas is building up in the atmosphere.

In 2020, total annual CO_2 accounted for approximately 80.2 percent of California's overall GHG emissions.[19] Transportation is the single largest source of CO_2 in California, which is primarily

[19] CARB. 2022a. GHGs Descriptions & Sources in California. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed January 2023).

comprised of on-road travel. Electricity production, industrial and residential sources also make important contributions to CO_2 emissions in California.

Methane

Methane (CH_4) is produced when organic matter decomposes in environments lacking sufficient oxygen. Natural sources include wetlands, termites, and oceans. Decomposition occurring in landfills accounts for the majority of human-generated CH_4 emissions in California and in the United States as a whole. Agricultural processes such as intestinal fermentation, manure management, and rice cultivation are also significant sources of CH_4 in California. Total annual emissions of CH_4 accounted for approximately 10.5 percent of GHG emissions in California in 2020.[20]

Nitrous Oxide

Nitrous oxide (N_2O) is produced naturally by a wide variety of biological sources, particularly microbial action in soils and water. Tropical soils and oceans account for the majority of natural source emissions. Nitrous oxide is a product of the reaction that occurs between nitrogen and oxygen during fuel combustion. Both mobile and stationary combustion emit N_2O, and the quantity emitted varies according to the type of fuel, technology, and pollution control device used, as well as maintenance and operating practices. Agricultural soil management and fossil fuel combustion are the primary sources of human-generated N_2O emissions in California. Nitrous oxide emissions accounted for approximately 3.5 percent of GHG emissions in California in 2020.[21]

Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride

HFCs are primarily used as substitutes for ozone-depleting substances regulated under the Montreal Protocol.[22] PFCs and SF_6 are emitted from various industrial processes, including aluminum smelting, semiconductor manufacturing, electric power transmission and distribution, and magnesium casting. There is no aluminum or magnesium production in California; however, the rapid growth in the semiconductor industry leads to greater use of PFCs. HFCs, PFCs, and SF_6 accounted for about 5.5 percent of GHG emissions in California in 2020.[23]

Black Carbon

Black carbon is the most strongly light-absorbing component of PM formed by burning fossil fuels such as coal, diesel, and biomass. Black carbon is emitted directly into the atmosphere in the form of $PM_{2.5}$ and is the most effective form of PM, by mass, at absorbing solar energy. Per unit of mass in the atmosphere, black carbon can absorb one million times more energy than CO_2.[24] Black carbon

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20 CARB. 2021. GHGs Descriptions & Sources in California. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed January 2023).

21 Ibid.

22 The Montreal Protocol is an international treaty that was approved on January 1, 1989, and was designated to protect the ozone layer by phasing out the production of several groups of halogenated hydrocarbons believed to be responsible for ozone depletion.

23 CARB. 2021. op. cit.

24 U.S. Environmental Protection Agency (USEPA). 2015. Black Carbon, Basic Information. February 14, 2017. Website: 19january2017snapshot.epa.gov/www3/airquality/blackcarbon/basic.html (accessed January 2023).

contributes to climate change both directly, such as absorbing sunlight, and indirectly, such as affecting cloud formation. However, because black carbon is short-lived in the atmosphere, it can be difficult to quantify its effect on global warming.

Most U.S. emissions of black carbon come from mobile sources (52 percent), particularly from diesel-fueled vehicles. The other major source of black carbon is open biomass burning, including wildfires, although residential heating and industry also contribute. The CARB estimates that the annual black carbon emissions in California will be reduced approximately 50 percent below 2013 levels by 2030.[25]

Effects of Global Climate Change

Effects from global climate change may arise from temperature increases, climate-sensitive diseases, extreme weather events, and air quality. There may be direct temperature effects through increases in average temperature leading to more extreme heat waves and less extreme cold spells. Those living in warmer climates are likely to experience more stress and heat-related problems. Heat-related problems include heat rash and heat stroke. In addition, climate-sensitive diseases may increase, such as those spread by mosquitoes and other disease-carrying insects. Such diseases include malaria, dengue fever, yellow fever, and encephalitis. Extreme events such as flooding and hurricanes can displace people and agriculture. Global climate change may also contribute to air quality problems from increased frequency of smog and particulate air pollution.[26]

Additionally, according to the 2006 California Climate Action Team (CAT) Report,[27] the following applicable climate change effects, which are based on trends established by the United Nations Intergovernmental Panel on Climate Change (IPCC), can be expected in California over the course of the next century:

- The loss of sea ice and mountain snow-pack, resulting in higher sea levels and higher sea surface evaporation rates with a corresponding increase in tropospheric water vapor due to the atmosphere's ability to hold more water vapor at higher temperatures.[28]

- Rise in global average sea level, primarily due to thermal expansion and melting of glaciers and ice caps in the Greenland and Antarctic ice sheets.[29]

25 CARB. 2017b. *Short-Lived Climate Pollutant Reduction Strategy.* March. Website: https://ww2.arb.ca.gov/sites/default/files/2020-07/final_SLCP_strategy.pdf (accessed January 2023).

26 USEPA. 2016. Climate Impacts on Human Health. April. Website: https://19january2017snapshot.epa.gov/climate-impacts/climate-impacts-human-health_.html, last updated on February 24, 2017 (accessed January 2023).

27 California Environmental Protection Agency (CalEPA). 2006. *Climate Action Team Report to Governor Schwarzenegger and the Legislature*. March.

28 Ibid.

29 Ibid.

- Changes in weather that include widespread changes in precipitation, ocean salinity, wind patterns, and more energetic aspects of extreme weather, including droughts, heavy precipitation, heat waves, extreme cold, and the intensity of tropical cyclones.[30]

- Decline of the Sierra snowpack, which accounts for approximately one-half of the surface water storage in California by 70 percent to as much as 90 percent over the next 100 years.[31]

- Increase in the number of days conducive to O_3 formation by 25–85 percent (depending on the future temperature scenario) in high O_3 areas by the end of the 21st century.[32]

- High potential for erosion of California's coastlines and seawater intrusion into the Delta and levee systems due to the rise in sea level.[33]

A summary of these potential effects are identified in Table D.

Table D: Potential Impacts of Global Warming and Expected Consequences for California

Potential Water Resource Impacts	Anticipated Consequences Statewide
Reduction of the State's average annual snowpack	• Specifically, the decline of the Sierra snowpack would lead to a loss in half of the surface water storage in California by 70% to 90% over the next 100 years • Potential loss of 5 million acre-feet or more of average annual water storage in the State's snowpack • Increased challenges for reservoir management and balancing the competing concerns of flood protection and water supply • Higher surface evaporation rates with a corresponding increase in tropospheric water vapor
Rise in average sea level	• Potential economic impacts related to coastal tourism, commercial fisheries, coastal agriculture, and ports • Increased risk of flooding, coastal erosion along the State's coastline, seawater intrusion into the Delta and levee systems
Changes in weather	• Changes in precipitation, ocean salinity, and wind patterns • Increased likelihood for extreme weather events, including droughts, heavy precipitation, heat waves, extreme cold, and the intensity of tropical cyclones
Changes in the timing, intensity, location, amount, and variability of precipitation	• Potential increased storm intensity and increased potential for flooding • Possible increased potential for droughts • Long-term changes in vegetation and increased incidence of wildfires • Changes in the intensity and timing of runoff • Possible increased incidence of flooding and increased sedimentation • Sea level rise and inundation of coastal marshes and estuaries • Increased potential for salinity intrusion into coastal aquifers (groundwater) • Increased potential for flooding near the mouths of rivers due to backwater effects
Increased water temperatures	• Increased environmental water demand for temperature control • Possible increased problems with foreign invasive species in aquatic ecosystems • Potential adverse changes in water quality, including the reduction of dissolved oxygen levels • Possible critical effects on listed and endangered aquatic species

30 Intergovernmental Panel on Climate Change (IPCC). 2007. *Climate Change 2007: The Physical Science Basis, Summary for Policymakers*. February.
31 CalEPA. 2006. op. cit.
32 CalEPA. 2006. op. cit.
33 Ibid.

Table D: Potential Impacts of Global Warming and Expected Consequences for California

Potential Water Resource Impacts	Anticipated Consequences Statewide
Changes in urban and agricultural water demand	• Changes in demand patterns and evapotranspiration
Increase in the number of days conducive to O_3 formation	• Increased temperatures • Potential health effects, including adverse impacts to respiratory systems

Source: United States Department of the Interior, Environmental Water Account, Draft Supplemental EIS/EIR to the Environmental Water Account Final EIS/EIR, Bureau of Reclamation Mid-Pacific Region, Sacramento, California (October 2007).
EIR = Environmental Impact Report
EIS = Environmental Impact Statement
O_3 = ozone

REGULATORY SETTING

AIR QUALITY REGULATIONS

The USEPA and the CARB regulate direct emissions from motor vehicles. The SCAQMD is the regional agency primarily responsible for regulating air pollution emissions from stationary sources (e.g., factories) and indirect sources (e.g., traffic associated with new development), as well as monitoring ambient pollutant concentrations.

Federal Regulations

Federal Clean Air Act

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and also set deadlines for their attainment. The Federal Clean Air Act Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required of areas of the nation that exceed the standards. Under the Clean Air Act, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

California Clean Air Act

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain CAAQS for CO, O_3, SO_2, and NO_2 by the earliest practical date. The California Clean Air Act provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

California Air Resources Board

The CARB is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Assembly Bill 2588 Air Toxics "Hot Spots" Information and Assessment Act. Under Assembly Bill (AB) 2588, stationary sources of air pollutants are required to report the types and quantities of certain substances their facilities routinely released into the air. The goals of the Air Toxics "Hot Spots" Act are to collect emission data, identify facilities having localized impacts, determine health risks, and notify nearby residents of significant risks.

The California Air Resources Board Handbook. The CARB has developed an Air Quality and Land Use Handbook[34] which is intended to serve as a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. According to the CARB Handbook, air pollution studies have shown an association between respiratory and other non-cancer health effects and proximity to high traffic roadways. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California. The CARB Handbook recommends that county and city planning agencies strongly consider proximity to these sources when finding new locations for "sensitive" land uses such as homes, medical facilities, daycare centers, schools, and playgrounds.

Land uses that can produce air pollution sources of concern include freeways, rail yards, ports, refineries, distribution centers, chrome plating facilities, dry cleaners, and large gasoline service stations. Key recommendations in the CARB Handbook include taking steps to avoid siting new, sensitive land uses:

- Within 500 feet of a freeway, urban roads with 100,000 vehicles/day or rural roads with 50,000 vehicles/day;
- Within 1,000 feet of a major service and maintenance rail yard;
- Immediately downwind of ports (in the most heavily impacted zones) and petroleum refineries;
- Within 300 feet of any dry cleaning operation (for operations with two or more machines, provide 500 feet); and
- Within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater).

The CARB Handbook specifically states that its recommendations are advisory and acknowledges land use agencies have to balance other considerations, including housing and transportation needs, economic development priorities, and other quality of life issues.

The recommendations are generalized and do not consider site-specific meteorology, freeway truck percentages, or other factors that influence risk for a particular project site. The purpose of this guidance is to help land use agencies determine when to further examine project sites for actual health risk associated with the location of new sensitive land uses.

Regional Regulations

South Coast Air Quality Management District

The SCAQMD has jurisdiction over most air quality matters in the South Coast Air Basin (Basin). This area includes all of Orange County, Los Angeles County except for the Antelope Valley, the non-desert portion of western San Bernardino County, and the western and Coachella Valley portions of

[34] CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

Riverside County. The SCAQMD is the agency principally responsible for comprehensive air pollution control in the Basin and is tasked with implementing certain programs and regulations required by the CAA and the CCAA. The SCAQMD prepares plans to attain CAAQS and NAAQS. SCAQMD is directly responsible for reducing emissions from stationary (area and point) sources. The SCAQMD develops rules and regulations, establishes permitting requirements, inspects emissions sources, and enforces such measures though educational programs or fines, when necessary.

The proposed project could be subject to the following SCAQMD rules and regulations:

- **Regulation IV - Prohibitions:** This regulation sets forth the restrictions for visible emissions, odor nuisance, fugitive dust, various air pollutant emissions, fuel contaminants, start-up/shutdown exemptions, and breakdown events.
    - **Rule 402 - Nuisance:** This rule restricts the discharge of any contaminant in quantities that cause or have a natural ability to cause injury, damage, nuisance, or annoyance to businesses, property, or the public.
    - **Rule 403 - Fugitive Dust:** This rule requires the prevention, reduction, or mitigation of fugitive dust emissions from a project site. Rule 403 restricts visible fugitive dust to a project property line, restricts the net PM_{10} emissions to less than 50 µg/m^3 and restricts the tracking out of bulk materials onto public roads. Additionally, Rule 403 requires an applicant to utilize one or more of the best available control measures (identified in the tables within the rule). Control measures may include adding freeboard to haul vehicles, covering loose material on haul vehicles, watering, using chemical stabilizers, and/or ceasing all activities. Finally, Rule 403 requires that a contingency plan be prepared if so determined by the USEPA. In addition, SCAQMD Rule 403(e), Additional Requirements for Large Operations, includes requirements to provide Large Operation Notification Form 403 N, appropriate signage, additional dust control measures, and employment of a dust control supervisor that has successfully completed the Dust Control training class in the South Coast Air Basin.
- **Regulation XI - Source Specific Standards:** Regulation XI sets emissions standards for different sources.
    - **Rule 1113 - Architectural Coatings:** This rule limits the amount of VOCs from architectural coatings and solvents, which lowers the emissions of odorous compounds.

The SCAQMD is responsible for demonstrating regional compliance with AAQS but has limited indirect involvement in reducing emissions from fugitive, mobile, and natural sources. To that end, the SCAQMD works cooperatively with the CARB, the Southern California Association of Governments (SCAG), county transportation commissions, local governments, and other federal and State government agencies. It has responded to this requirement by preparing a series of Air Quality Management Plans (AQMPs) to meet CAAQS and NAAQS. SCAQMD and the SCAG are responsible for formulating and implementing the AQMP for the Basin. The main purpose of an AQMP is to bring

the area into compliance with federal and State air quality standards. Every 3 years, SCAQMD prepares a new AQMP, updating the previous plan and 20-year horizon.[35]

The Final 2022 Air Quality Management Plan is the currently adopted AQMP. Key elements of the Final 2022 AQMP include the following:

- Calculating and taking credit for co-benefits from other planning efforts (e.g., climate, energy, and transportation)
- A strategy with fair-share emission reductions at the federal, State, and local levels
- Investment in strategies and technologies meeting multiple air quality objectives
- Seeking new partnerships and significant funding for incentives to accelerate deployment of zero-emission and near-zero emission technologies
- Enhanced socioeconomic assessment, including an expanded environmental justice analysis
- Attainment of the 24-hour $PM_{2.5}$ standard in 2019 with no additional measures
- Attainment of the annual $PM_{2.5}$ standard by 2025 with implementation of a portion of the O_3 strategy
- Attainment of the 1-hour O_3 standard by 2022 with no reliance on "black box" future technology (CAA Section 182(e)(5) measures)

The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low NO_x technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other CAA measures to achieve the 2015 8-hour ozone standard.

Southern California Association of Governments

SCAG is a council of governments for Los Angeles, Orange, Riverside, San Bernardino, Imperial, and Ventura Counties. It is a regional planning agency and serves as a forum for regional issues relating to transportation, the economy and community development, and the environment. SCAG is the federally designated Metropolitan Planning Organization (MPO) for the majority of the southern California region and is the largest MPO in the nation. With regard to air quality planning, SCAG prepares the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), which address regional development and growth forecasts and form the basis for the land use and transportation control portions of the AQMP and are utilized in the preparation of the air

[35] SCAQMD. 2022. *Final 2022 Air Quality Management Plan*. December 2.

quality forecasts and consistency analysis included in the AQMP. The RTP, RTIP, and AQMP are based on projections originating within local jurisdictions.

Although SCAG is not an air quality management agency, it is responsible for developing transportation, land use, and energy conservation measures that affect air quality. SCAG's Regional Comprehensive Plan (RCP) provides growth forecasts that are used in the development of air quality-related land use and transportation control strategies by the SCAQMD. The RCP is a framework for decision-making for local governments, assisting them in meeting federal and State mandates for growth management, mobility, and environmental standards, while maintaining consistency with regional goals regarding growth and changes. Policies within the RCP include consideration of air quality, land use, transportation, and economic relationships by all levels of government.

SCAG adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal) on September 3, 2020. Connect SoCal is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal is an important planning document for the region, allowing project sponsors to qualify for federal funding and takes into account operations and maintenance costs, to ensure reliability, longevity, and cost effectiveness. The forecasted development pattern, when integrated with the financially constrained transportation investments identified in Connect SoCal, would reach the regional target of reducing GHG emissions from autos and light-duty trucks by 19 percent by 2035 (compared to 2005 levels).

Local Regulations

City of Fontana General Plan Update 2015-2035

The City of Fontana addresses air quality in the Building a Healthier Fontana Element and Sustainability and Resilience Element of the City of Fontana General Plan.[36] The General Plan contains goals and policies that work to improve air quality. The following policies are applicable to the proposed project:

- Support local and regional initiatives to improve air quality in order to reduce asthma while actively discouraging development that may exacerbate asthma rates.
- Promote energy-efficient development in Fontana.
- Meet or exceed state goals for energy-efficient new construction.

City of Fontana Industrial Commerce Centers Sustainability Standards

Establishes sustainability standards applicable to all warehouse development projects that are intended to improve local air and environmental quality. Standards required by Chapter 9, Section V of the Fontana Municipal Code that would directly reduce local air pollution emissions include but are not limited to:

36 City of Fontana. 2018. *City of Fontana General Plan Update 2015 - 2035*. November 13.

- Orientation of loading docks and truck entries away from sensitive receptors;
- Prohibiting idling for more than three minutes;
- Requiring each warehouse development to prepare and implement a Truck Routing Plan that utilizes designated truck routes and avoids routes that pass sensitive receptors, to the greatest extent possible;
- Requiring motorized cargo-handling equipment used at warehouses to be zero emission;
- Requiring buildings with more than 400,000 square feet of building area to install rooftop solar panels that supply 100 percent of the power need for non-refrigerated building space; and
- Requiring the installation of electric plug-ins at all loading dock positions that would be utilized by trucks fitted with transport refrigeration units (TRUs).

The City would ensure compliance with the requirements of Chapter 9, Section V of the Municipal Code as part of their standard building permit review/approval and site inspection processes.

ENERGY REGULATORY SETTING

Federal and State agencies regulate energy use and consumption through various means and programs. On the federal level, the U.S. Department of Transportation (USDOT), the United States Department of Energy, and the USEPA are three federal agencies with substantial influence over energy policies and programs. Generally, federal agencies influence and regulate transportation energy consumption through establishment and enforcement of fuel economy standards for automobiles and light trucks, through funding of energy-related research and development projects, and through funding for transportation infrastructure improvements. On the State level, the California Public Utilities Commission (CPUC) and the CEC are two agencies with authority over different aspects of energy.

The CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies and serves the public interest by protecting consumers and ensuring the provision of safe, reliable utility service and infrastructure at reasonable rates, with a commitment to environmental enhancement and a healthy California economy.

The CEC is the State's primary energy policy and planning agency. The CEC forecasts future energy needs, promotes energy efficiency, supports energy research, develops renewable energy resources, and plans for/directs state response to energy emergencies. The applicable federal, State, regional, and local regulatory framework is discussed below.

Federal Regulations

Energy Policy Act of 2005

The Energy Policy Act of 2005 seeks to reduce reliance on non-renewable energy resources and provide incentives to reduce current demand on these resources. For example, under this Act, consumers and businesses can obtain federal tax credits for purchasing fuel-efficient appliances and products (including hybrid vehicles), building energy-efficient buildings, and improving the energy efficiency of commercial buildings. Additionally, tax credits are available for the installation of qualified fuel cells, stationary microturbine power plants, and solar power equipment.

Corporate Average Fuel Economy (CAFE) Standards

On March 31, 2022, the National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy (CAFE) standards for Model Years 2024–2026 Passenger Cars and Light Trucks. The amended CAFE standards would require an industry wide fleet average of approximately 49 mpg for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024–2025, and 10 percent annually for model year 2026. The final standards are estimated to save about 234 billion gallons of gas between model years 2030 to 2050.

State Regulations

Assembly Bill 1575, Warren-Alquist Act

In 1975, largely in response to the oil crisis of the 1970s, the State Legislature adopted AB 1575 (also known as the Warren-Alquist Act), which created the CEC. The statutory mission of the CEC is to forecast future energy needs; license power plants of 50 megawatts (MW) or larger; develop energy technologies and renewable energy resources; plan for and direct State responses to energy emergencies; and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code (PRC) Section 21100(b)(3) and *State CEQA Guidelines* Section 15126.4 to require Environmental Impact Reports (EIRs) to include, where relevant, mitigation measures proposed to minimize the wasteful, inefficient, and unnecessary consumption of energy caused by a project. Thereafter, the State Resources Agency created Appendix F to the *State CEQA Guidelines*. Appendix F assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. Appendix F of the *State CEQA Guidelines* also states that the goal of conserving energy implies the wise and efficient use of energy and the means of achieving this goal, including (1) decreasing overall per capita energy consumption; (2) decreasing reliance on fossil fuels such as coal, natural gas, and oil; and (3) increasing reliance on renewable energy sources.

Senate Bill 1389, Energy: Planning and Forecasting

In 2002, the State Legislature passed Senate Bill (SB) 1389, which required the CEC to develop an integrated energy plan every 2 years for electricity, natural gas, and transportation fuels for the California Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies

a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero emission vehicles (ZEVs) and their infrastructure needs, and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

In compliance with the requirements of SB 1389, the CEC adopts an Integrated Energy Policy Report every 2 years and an update every other year. The most recently adopted report includes the *2021 Integrated Energy Policy Report*[37] and the *2022 Integrated Energy Policy Report Update.*[38] The *Integrated Energy Policy Report* covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecast, and the California Energy Demand Forecast. The *Integrated Energy Policy Report* provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs.

Renewable Portfolio Standard

SB 1078 established the California Renewable Portfolio Standards program in 2002. SB 1078 initially required that 20 percent of electricity retail sales be served by renewable resources by 2017; however, this standard has become more stringent over time. In 2006, SB 107 accelerated the standard by requiring that the 20 percent mandate be met by 2010. In April 2011, SB 2 required that 33 percent of electricity retail sales be served by renewable resources by 2020. In 2015, SB 350 established tiered increases to the Renewable Portfolio Standards of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. In 2018, SB 100 increased the requirement to 60 percent by 2030 and required that all the State's electricity come from carbon-free resources by 2045. SB 100 took effect on January 1, 2019.[39]

Title 24, California Building Code

Energy consumption by new buildings in California is regulated by the Building Energy Efficiency Standards, embodied in Title 24 of the California Code of Regulations (CCR), known as the California Building Code (CBC). The CEC first adopted the Building Energy Efficiency Standards for Residential and Non-residential Buildings in 1978 in response to a legislative mandate to reduce energy consumption in the State. The CBC is updated every 3 years, with the most recent update consisting of the 2022 CBC that became effective January 1, 2023. The efficiency standards apply to both new construction and rehabilitation of both residential and non-residential buildings, and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. The building efficiency standards are enforced through the local building permit process. Local government

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37 CEC. 2021b. *2021 Integrated Energy Policy Report*. California Energy Commission. Docket Number: 21-IEPR-01.

38 CEC. 2022. *2020 Integrated Energy Policy Report Update*. California Energy Commission. Docket Number: 22-IEPR-01.

39 California Public Utilities Commission (CPUC). 2019. Renewables Portfolio Standard Program. Website: cpuc.ca.gov/rps (accessed January 2023).

agencies may adopt and enforce energy standards for new buildings, provided these standards meet or exceed those provided in CCR Title 24.

California Green Building Standards Code (CALGreen Code)

In 2010, the California Building Standards Commission (CBSC) adopted Part 11 of the Title 24 Building Energy Efficiency Standards, referred to as the California Green Building Standards Code (CALGreen Code). The CALGreen Code took effect on January 1, 2011. The CALGreen Code is updated on a regular basis, with the most recent update consisting of the 2022 CALGreen Code standards that became effective January 1, 2023. The CALGreen Code established mandatory measures for residential and non-residential building construction and encouraged sustainable construction practices in the following five categories: (1) planning and design, (2) energy efficiency, (3) water efficiency and conservation, (4) material conservation and resource efficiency, and (5) indoor environmental quality. Although the CALGreen Code was adopted as part of the State's efforts to reduce greenhouse gas (GHG) emissions, the CALGreen Code standards have co-benefits of reducing energy consumption from residential and non-residential buildings subject to the standard.

California Energy Efficiency Strategic Plan

On September 18, 2008, the CPUC adopted California's first Long-Term Energy Efficiency Strategic Plan, presenting a roadmap for energy efficiency in California. The Plan articulates a long-term vision and goals for each economic sector and identifies specific near-term, mid-term, and long-term strategies to assist in achieving those goals. The Plan also reiterates the following four specific programmatic goals known as the "Big Bold Energy Efficiency Strategies" that were established by the CPUC in Decisions D.07-10-032 and D.07-12-051:

- All new residential construction will be zero net energy (ZNE) by 2020.
- All new commercial construction will be ZNE by 2030.
- 50 percent of commercial buildings will be retrofitted to ZNE by 2030.
- 50 percent of new major renovations of State buildings will be ZNE by 2025.

Regional Regulations

There are no regional regulations that apply to the proposed project.

Local Regulations

City of Fontana General Plan Update 2015-2035

The City of Fontana addresses energy in the Sustainability and Resilience Element of the City of Fontana General Plan.[40] The General Plan contains goals and policies that work to improve energy efficiency. The following policies are applicable to the proposed project:

- Promote energy-efficient development in Fontana.

[40] City of Fontana. op. cit.

- Meet or exceed state goals for energy-efficient new construction.

GLOBAL CLIMATE CHANGE REGULATORY SETTING

This section describes regulations related to Global Climate Change at the federal, State, and local level.

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the USEPA has the authority to regulate CO_2 emissions under the CAA. While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change.

This includes the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the Clean Air Act, finding that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

In October 2012, the USEPA and the NHTSA, on behalf of the U.S. Department of Transportation, issued final rules to further reduce GHG emissions and improve CAFE standards for light-duty vehicles for model years 2017 and beyond (77 *Federal Register* 62624). The NHTSA's CAFE standards have been enacted under the Energy Policy and Conservation Act since 1978. This national program requires automobile manufacturers to build a single light-duty national fleet that meets all requirements under both federal programs and the standards of California and other states. This program would increase fuel economy to the equivalent of 54.5 miles per gallon, limiting vehicle emissions to 163 grams of CO_2 per mile for the fleet of cars and light-duty trucks by model year 2025 (77 *Federal Register* 62630).

On March 31, 2022, the National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy (CAFE) standards for Model Years 2024–2026 Passenger Cars and Light Trucks. The amended CAFE standards would require an industry wide fleet average of approximately 49 mpg for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024–2025, and 10 percent annually for model year 2026. The final standards are estimated to save about 234 billion gallons of gas between model years 2030 to 2050.

State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 1493 (2002)

In a response to the transportation sector's significant contribution to California's CO_2 emissions, AB 1493 was enacted on July 22, 2002. AB 1493 requires the CARB to set GHG emission standards for passenger vehicles and light duty trucks (and other vehicles whose primary use is noncommercial personal transportation in the State) manufactured in 2009 and all subsequent model years. These standards (starting in model years 2009 to 2016) were approved by the CARB in 2004, but the needed waiver of CCAA Preemption was not granted by the USEPA until June 30, 2009. The CARB responded by amending its original regulation, now referred to as Low Emission Vehicle III, to take effect for model years starting in 2017 to 2025. The Trump administration revoked California's waiver in 2019; however, the Biden administration restored California's waiver in 2021.

Executive Order S-3-05 (2005)

Governor Arnold Schwarzenegger signed Executive Order (EO) S-3-05 on June 1, 2005, which proclaimed that California is vulnerable to the impacts of climate change. To combat those concerns, the executive order established California's GHG emissions reduction targets, which established the following goals:

- GHG emissions should be reduced to 2000 levels by 2010;
- GHG emissions should be reduced to 1990 levels by 2020; and
- GHG emissions should be reduced to 80 percent below 1990 levels by 2050.

The Secretary of the California Environmental Protection Agency (CalEPA) is required to coordinate efforts of various State agencies in order to collectively and efficiently reduce GHGs. A biannual progress report must be submitted to the Governor and State Legislature disclosing the progress made toward GHG emission reduction targets. In addition, another biannual report must be submitted illustrating the impacts of global warming on California's water supply, public health, agriculture, the coastline, and forestry, and report possible mitigation and adaptation plans to address these impacts.

The Secretary of CalEPA leads this CAT made up of representatives from State agencies as well as numerous other boards and departments. The CAT members work to coordinate statewide efforts to implement global warming emission reduction programs and the State's Climate Adaptation Strategy. The CAT is also responsible for reporting on the progress made toward meeting the statewide GHG targets that were established in the executive order and further defined under AB 32, the "Global Warming Solutions Act of 2006." The first CAT Report to the Governor and the Legislature was released in March 2006, which it laid out 46 specific emission reduction strategies for reducing GHG emissions and reaching the targets established in the executive order. The most recent report was released in December 2020.

Assembly Bill 32 (2006), California Global Warming Solutions Act

California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort aims at reducing GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) of CO_2e. The emissions target of 427 MMT requires the reduction of 169 MMT from the State's projected

business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The Scoping Plan was approved by the CARB on December 11, 2008, and contains the main strategies California will implement to achieve the reduction of approximately 169 MMT CO_2e, or approximately 30 percent, from the State's projected 2020 emissions level of 596 MMT CO_2e under a business-as-usual scenario (this is a reduction of 42 MMT CO_2e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reductions of 31.7 MMT CO_2e);
- The Low-Carbon Fuel Standard (15.0 MMT CO_2e);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e); and
- A renewable portfolio standard for electricity production (21.3 MMT CO_2e).

The Scoping Plan identifies 18 emission reduction measures that address cap-and-trade programs, vehicle gas standards, energy efficiency, low carbon fuel standards, renewable energy, regional transportation-related GHG targets, vehicle efficiency measures, goods movement, solar roof programs, industrial emissions, high speed rail, green building strategies, recycling, sustainable forests, water, and air. The measures would result in a total reduction of 174 MMT CO_2e by 2020.

On August 24, 2011, the CARB unanimously approved both the new supplemental assessment and reapproved its Scoping Plan, which provides the overall roadmap and rule measures to carry out AB 32. The CARB also approved a more robust CEQA equivalent document supporting the supplemental analysis of the cap-and-trade program. The cap-and-trade took effect on January 1, 2012, with an enforceable compliance obligation that began January 1, 2013.

CARB has not yet determined what amount of GHG reductions it recommends from local government operations and local land use decisions; however, the Scoping Plan states that land use planning and urban growth decisions will play an important role in the State's GHG reductions because local governments have primary authority to plan, zone, approve, and permit how land is developed to accommodate population growth and the changing needs of their jurisdictions (meanwhile, CARB is also developing an additional protocol for community emissions). CARB further acknowledges that decisions on how land is used will have large impacts on the GHG emissions that would result from the transportation, housing, industry, forestry, water, agriculture, electricity, and natural gas emission sectors. The Scoping Plan states that the ultimate GHG reduction assignment to local government operations is to be determined. With regard to land use planning, the Scoping Plan expects an approximately 5.0 MMT CO_2e reduction due to implementation of SB 375.

In addition to reducing GHG emissions to 1990 levels by 2020, AB 32 directed the CARB and the CAT to identify a list of "discrete early action GHG reduction measures" that could be adopted and made

enforceable by January 1, 2010. On January 18, 2007, Governor Schwarzenegger signed EO S-1-07, further solidifying California's dedication to reducing GHGs by setting a new Low Carbon Fuel Standard (LCFS). This executive order sets a target to reduce the carbon intensity of California transportation fuels by at least 10 percent by 2020 and directs the CARB to consider the LCFS as a discrete early action measure. In 2011, U.S. District Court Judge Lawrence O'Neil issued an injunction preventing implementation of the LCFS, ruling that it is unconstitutional. In 2012, the Ninth Circuit Court of Appeal stayed the District Court's injunction, allowing implementation of the LCFS. The Ninth Circuit decided to uphold the LCFS.

In June 2007, the CARB approved a list of 37 early action measures, including three discrete early action measures (LCFS, Restrictions on GWP Refrigerants, and Landfill CH_4 Capture).[41] Discrete early action measures are measures that were required to be adopted as regulations and made effective no later than January 1, 2010, the date established by Health and Safety Code Section 38560.5. The CARB adopted additional early action measures in October 2007 that tripled the number of discrete early action measures. These measures relate to truck efficiency, port electrification, reduction of PFCs from the semiconductor industry, reduction of propellants in consumer products, proper tire inflation, and SF_6 reductions from the non-electricity sector. The combination of early action measures is estimated to reduce statewide GHG emissions by nearly 16 MMT.[42]

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020, and also sets the groundwork to reach long-term goals set forth in EOs S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[43] to reflect the 2030 target set by EO B-30-15 and codified by SB 32.

The 2022 Scoping Plan[44] was approved in December 2022 and assesses progress towards achieving the SB 32 2030 target and lay out a path to achieve carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

41 CARB. 2007b. *Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California Recommended for Board Consideration*. October.

42 CARB. 2007a. "ARB approves tripling of early action measures required under AB 32" News Release 07-46. October 25.

43 CARB. 2017a. *California's 2017 Climate Change Scoping Plan*. November.

44 CARB. 2021. *2022 Scoping Plan Update*. May 10. Website: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf (accessed January 2023).

Senate Bill 97 (2007)

SB 97, signed by the Governor in August 2007 (Chapter 185, Statutes of 2007; Public Resources Code [PRC], Sections 21083.05 and 21097), acknowledges climate change is a prominent environmental issue that requires analysis under CEQA. This bill directed the Governor's Office of Planning and Research (OPR) to prepare, develop, and transmit to the California Resources Agency guidelines for mitigating GHG emissions or the effects of GHG emissions, as required by CEQA.

The California Natural Resources Agency adopted the amendments to the *State CEQA Guidelines* in November 2018, which went into effect in December 2018. The amendments do not identify a threshold of significance for GHG emissions, nor do they prescribe assessment methodologies or specific mitigation measures. The amendments encourage lead agencies to consider many factors in performing a CEQA analysis, but preserve the discretion granted by CEQA to lead agencies in making their own determinations based on substantial evidence. The amendments also encourage public agencies to make use of programmatic mitigation plans and programs when they perform individual project analyses.

Senate Bill 375 (2008)

SB 375, the Sustainable Communities and Climate Protection Act, which establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions, was adopted by the State on September 30, 2008. On September 23, 2010, the CARB adopted the vehicular GHG emissions reduction targets that had been developed in consultation with the Metropolitan Planning Organization (MPOs); the targets require a 6 to 15 percent reduction by 2020 and between 13 to 19 percent reduction by 2035 for each MPO. SB 375 recognizes the importance of achieving significant GHG reductions by working with cities and counties to change land use patterns and improve transportation alternatives. Through the SB 375 process, MPOs such as the Fresno Council of Governments will work with local jurisdictions in the development of Sustainable Communities Strategy (SCS) designed to integrate development patterns and the transportation network in a way that reduces GHG emissions while meeting housing needs and other regional planning objectives. Pursuant to SB 375, the Los Angeles/Southern California reduction targets for per capita vehicular emissions were 8 percent by 2020 and are 19 percent by 2035 as shown in Table E.

Table E: Senate Bill 375 Regional Greenhouse Gas Emissions Reduction Targets

Metropolitan Planning Organization	By 2020 (percent)	By 2035 (percent)
San Francisco Bay Area	10	19
San Diego	15	19
Sacramento	7	19
Central Valley/San Joaquin	6-13	13-16
Los Angeles/Southern California	8	19

Source: California Air Resources Board (2018).

Executive Order B-30-15 (2015)

Governor Jerry Brown signed EO B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act

SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increasing energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the CPUC for the private utilities and by the CEC for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other non-renewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to state energy agencies under existing law. The addition made by this legislation requires state energy agencies to plan for, and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197

In summer 2016 the Legislature passed, and the Governor signed, SB 32, and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an IPCC analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO_2e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100, which raises California's Renewables Portfolio Standard (RPS) requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the

bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18

EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Title 24, Part 11, Building Standards Code and CALGreen Code

In November 2008, the California Building Standards Commission established the California Green Building Standards Code (CALGreen Code), which sets performance standards for residential and non-residential development to reduce environmental impacts and encourage sustainable construction practices. The CALGreen Code addresses energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code is updated every 3 years and was most recently updated in 2019 to include new mandatory measures for residential as well as non-residential uses; the new measures took effect on January 1, 2020. The next set of standards were adopted in 2022 and will apply to projects seeking building permits on or after January 1, 2023.

California Building Efficiency Standards (Title 24, Part 6)

The California Building Standards Code, or Title 24 of the California Code of Regulations (CCR) contains the regulations that govern the construction of buildings in California. Within the Building Standards Code, two parts pertain to the incorporation of both energy efficient and green building elements into land use development. Part 6 is California's Energy Efficiency Standards for Residential and Non-Residential Buildings. These standards were first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption and are updated on an approximately 3-year cycle to allow consideration and possible incorporation of new energy efficient technologies and methods. All buildings for which an application for a building permit is submitted on or after January 1, 2020, must follow the 2019 standards. The next set of standards were adopted in 2022 and will apply to projects seeking building permits on or after January 1, 2023. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions.

Cap and Trade

The development of a cap-and-trade program was included as a key reduction measure of the CARB AB 32 Climate Change Scoping Plan. The cap-and-trade program will help put California on the path to meet its goal of reducing GHG emissions to 1990 levels by 2020 and ultimately achieving an 80 percent reduction from 1990 levels by 2050. The cap-and-trade emissions trading program developed by the CARB took effect on January 1, 2012, with enforceable compliance obligations

beginning January 1, 2013. The cap-and-trade program aims to regulate GHG emissions from the largest producers in the State by setting a statewide firm limit, or cap, on allowable annual GHG emissions. The cap was set in 2013 at approximately 2 percent below the emissions forecast for 2020. In 2014, the cap declined approximately 2 percent. Beginning in 2015 and continuing through 2020, the cap has been declining approximately 3 percent annually. The CARB administered the first auction on November 14, 2012, with many of the qualified bidders representing corporations or organizations that produce large amounts of GHG emissions, including energy companies, agriculture and food industries, steel mills, cement companies, and universities. On January 1, 2015, compliance obligation began for distributors of transportation fuels, natural gas, and other fuels. The cap-and-trade program was initially slated to sunset in 2020 but the passage of SB 398 in 2017 extended the program through 2030.

Executive Order N-79-20

EO N-79-20, which was signed by the Governor on September 23, 2020, sets the following goals for the State: 100 percent of in-state sales of new passenger cars and trucks shall be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the State shall be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks; and 100 percent of off-road vehicles and equipment in the State shall be zero-emission by 2035, where feasible.

California Integrated Waste Management Act

To minimize the amount of solid waste that must be disposed of in landfills, the State Legislature passed the California Integrated Waste Management Act of 1989 (AB 939), effective January 1990. According to AB 939, all cities and counties were required to divert 25 percent of all solid waste from landfill facilities by January 1, 1995, and 50 percent by January 1, 2000. Through other statutes and regulations, this 50 percent diversion rate also applies to State agencies. In order of priority, waste reduction efforts must promote source reduction, recycling and composting, and environmentally safe transformation and land disposal. In 2011, AB 341 modified the California Integrated Waste Management Act and directed the California Department of Resources Recycling and Recovery (CalRecycle) to develop and adopt regulations for mandatory commercial recycling. The resulting 2012 Mandatory Commercial Recycling Regulation requires that on and after July 1, 2012, certain businesses that generate four cubic yards or more of commercial solid waste per week shall arrange recycling services. To comply with this requirement, businesses may either separate recyclables and self-haul them or subscribe to a recycling service that includes mixed waste processing. AB 341 also established a statewide recycling goal of 75 percent; the 50 percent disposal reduction mandate still applies for cities and counties under AB 939, the Integrated Waste Management Act. In April 2016, AB 1826 further modified the California Integrated Waste Management Act, requiring businesses that generate a specified amount of organic waste per week to arrange for recycling services for that organic waste in a specified manner. If CalRecycle determines that statewide disposal of organic waste has not been reduced by 50 percent below 2014 levels by 2020, businesses generating more than two cubic yards of organic waste per week would be subject to these waste collection requirements. CalRecycle plans to make this assessment in the fall of 2020. Diverting organic waste from landfills reduces emissions of CH_4. This is equivalent to reducing anaerobic decomposition of organic waste that would have otherwise occurred in landfills where organic waste is often buried with other inorganic waste.

Low Carbon Fuel Standard

In January 2007, EO S-01-07 established an LCFS. This executive order calls for a statewide goal to be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020, and that an LCFS for transportation fuels be established for California. The LCFS applies to all refiners, blenders, producers, or importers ("Providers") of transportation fuels in California, including fuels used by off-road construction equipment. In June 2007, CARB adopted the LCFS under AB 32 pursuant to Health and Safety Code Section 38560.5, and, in April 2009, CARB approved the new rules and carbon intensity reference values with new regulatory requirements taking effect in January 2011. The standards require providers of transportation fuels to report on the mix of fuels they provide and demonstrate they meet the LCFS intensity standards annually. This is accomplished by ensuring that the number of "credits" earned by providing fuels with a lower carbon intensity than the established baseline (or obtained from another party) is equal to or greater than the "deficits" earned from selling higher intensity fuels. In response to certain court rulings, CARB re-adopted the LCFS regulation in September 2015, and the LCFS went into effect on January 1, 2016. In 2018, CARB approved amendments to the regulation to readjust carbon intensity benchmarks to meet California's 2030 GHG reductions targets under SB 32. These amendments include opportunities to promote zero emission vehicle (ZEV) adoption, carbon capture and sequestration, and advanced technologies for decarbonization of the transportation sector.

Advanced Clean Cars Program

In January 2012, CARB approved the Advanced Clean Cars program, which combines the control of GHG emissions and criteria air pollutants, as well as requirements for greater numbers of ZEVs, into a single package of regulatory standards for vehicle model years 2017 through 2025. The new regulations strengthen the GHG standard for 2017 models and beyond. This will be achieved through existing technologies, the use of stronger and lighter materials, and more efficient drivetrains and engines. The program's ZEVs regulation requires battery, fuel cell, and/or plug-in hybrid electric vehicles to account for up to 15 percent of California's new vehicle sales by 2025. The program also includes a clean fuels outlet regulation designed to support the commercialization of zero-emission hydrogen fuel cell vehicles planned by vehicle manufacturers by 2015 by requiring increased numbers of hydrogen fueling stations throughout the State. The number of stations will grow as vehicle manufacturers sell more fuel cell vehicles. By 2025, when the rules will be fully implemented, the statewide fleet of new cars and light trucks will emit 40 percent fewer GHGs and 75 percent fewer smog-forming emissions than 2012 model year vehicles.

Executive Order B-48-18

In January 2018, Governor Brown signed EO B-48-18 requiring all State entities to work with the private sector to have at least 5 million ZEVs on the road by 2030, as well as install 200 hydrogen fueling stations and 250,000 electric vehicle charging stations by 2025. It specifies that 10,000 of the electric vehicle charging stations should be direct current fast chargers. This order also requires all State entities to continue to partner with local and regional governments to streamline the installation of ZEV infrastructure. The Governor's Office of Business and Economic Development is required to publish a Plug-in Charging Station Design Guidebook and update the 2015 Hydrogen Station Permitting Guidebook to aid in these efforts. All State entities are required to participate in updating the 2016 Zero-Emissions Vehicle Action Plan to help expand private investment in ZEV

infrastructure with a focus on serving low-income and disadvantaged communities. Additionally, all State entities are to support and recommend policies and actions to expand ZEV infrastructure at residential land uses, through the LCFS Program, and recommend how to ensure affordability and accessibility for all drivers.

Regional Regulations

South Coast Air Quality Management District

In 2008, the SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the Basin. The Working Group developed several different options that are contained in the SCAQMD 2008 draft guidance document titled Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans[45] that could be applied by lead agencies. On September 28, 2010, SCAQMD Working Group Meeting No. 15 provided further guidance, including a tiered approach for evaluating GHG emissions for development projects where the SCAQMD is not the lead agency. The SCAQMD has not presented a finalized version of these thresholds to the governing board.

The SCAQMD identifies the emissions level for which a project would not be expected to substantially conflict with any State legislation adopted to reduce statewide GHG emissions. As such, the utilization of a service population represents the rates of emissions needed to achieve a fair share of the State's mandated emissions reductions. Overall, the SCAQMD identifies a GHG efficiency level that, when applied statewide or to a defined geographic area, would meet the year 2020 and post-2020 emissions targets as required by AB 32 and SB 32. If projects are able to achieve targeted rates of emissions per the service population, the State will be able to accommodate expected population growth and achieve economic development objectives, while also abiding by AB 32's emissions target and future post-2020 targets.

Southern California Association of Governments

On September 3, 2020, SCAG adopted Connect SoCal–The 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (2020–2045 RTP/SCS).[46] In general, the SCS outlines a development pattern for the region, which, when integrated with the transportation network and other transportation measures and policies, would reduce vehicle miles traveled (VMT) from automobiles and light-duty trucks and thereby reduce GHG emissions from these sources. For the SCAG region, CARB has set GHG reduction targets at 8 percent below 2005 per capita emissions levels by 2020, and 19 percent below 2005 per capita emissions levels by 2035. The RTP/SCS lays out a strategy for the region to meet these targets. Overall, the SCS is meant to provide growth strategies that will achieve the regional GHG emissions reduction targets. Land use strategies to achieve the region's targets include planning for new growth around high-quality transit areas and livable corridors, and creating neighborhood mobility areas to integrate land use and transportation

45 SCAQMD. 2008b. Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans.

46 Southern California Association of Governments (SCAG). 2020. Connect SoCal: The 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments. Website: https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan_0.pdf?1606001176 (accessed January 2023).

and plan for more active lifestyles.[47] However, the SCS does not require that local General Plans, Specific Plans, or zoning be consistent with the SCS; SCAG is required to consider local land use controls when drafting the SCS.

Local Regulations

San Bernardino County Greenhouse Gas Reduction Plan

The City of Fontana is part of the regional *San Bernardino County Greenhouse Gas Reduction Plan* (GHGRP) adopted in September 2011, which identifies the County's vision and goals on reducing GHG emissions in the different cities, local government facilities, and communities. The regional GHG reduction plan[48] was adopted in 2021 and will serve as the basis for cities in San Bernardino County to develop more detailed community level climate action plans. The City of Fontana was a participant in the San Bernardino County Regional Greenhouse Gas Reduction Plan, which identifies the County's vision and goals on reducing GHG emissions in the different cities, local government facilities, and communities. In response to these initiatives, an informal project partnership, led by the San Bernardino Council of Governments (SBCOG), compiled a GHG emissions inventory and an evaluation of reduction measures that could be adopted by the 25 Partnership Cities of San Bernardino County. The Partnership has committed to undertake the following actions that will reduce GHG emissions associated with its regional (or countywide) activities:

- Prepare a baseline (2016) GHG emissions inventory for each of the 25 Partnership Jurisdictions in the County.
- Prepare a future year (2020, 2030, and 2045) GHG emissions forecasts for each of the jurisdictions.
- Develop general GHG reduction measures and jurisdiction-specific measures appropriate for each jurisdiction.
- Develop consistent baseline in information for jurisdictions to use for their development of community climate action plans (CAPs) meeting jurisdiction-identified reduction goals.

City of Fontana Industrial Commerce Centers Sustainability Standards

Establishes sustainability standards applicable to all warehouse development projects that are intended to improve local air and environmental quality. Standards required by Chapter 9, Section V of the Fontana Municipal Code that would directly reduce local air pollution emissions include but are not limited to:

- Orientation of loading docks and truck entries away from sensitive receptors;

47 Ibid.

48 San Bernardino Council of Governments (SBCOG). 2021. San Bernardino County Regional Greenhouse Gas Reduction Plan. Website: https://www.gosbcta.com/wp-content/uploads/2019/09/San_Bernardino_Regional_GHG_Reduction_Plan_Main_Text_Mar_2021.pdf (accessed January 2023).

- Prohibiting idling for more than three minutes;
- Requiring each warehouse development to prepare and implement a Truck Routing Plan that utilizes designated truck routes and avoids routes that pass sensitive receptors, to the greatest extent possible;
- Requiring motorized cargo-handling equipment used at warehouses to be zero emission;
- Requiring buildings with more than 400,000 square feet of building area to install rooftop solar panels that supply 100 percent of the power need for non-refrigerated building space; and
- Requiring the installation of electric plug-ins at all loading dock positions that would be utilized by trucks fitted with transport refrigeration units (TRUs).

The City would ensure compliance with the requirements of Chapter 9, Section V of the Municipal Code as part of their standard building permit review/approval and site inspection processes.

SETTING

This section provides the current SCAQMD attainment status, climate and air quality, ambient air quality monitoring results, and GHG emissions inventory.

ATTAINMENT STATUS

The CARB is required to designate areas of the state as attainment, nonattainment, or unclassified for all State standards. An *attainment* designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A *nonattainment* designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An *unclassified* designation signifies that data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The USEPA designates areas for O_3, CO, and NO_2 as either does not meet the primary standards, or cannot be classified, or better than national standards. For SO_2, areas are designated as does not meet the primary standards, does not meet the secondary standards, cannot be classified, or better than national standards.

Table F provides a summary of the attainment status for the Basin with respect to NAAQS and CAAQS.

Table F: Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
O_3 1 hour	Nonattainment	Extreme Nonattainment
O_3 8 hour	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment/Maintenance
$PM_{2.5}$	Nonattainment	Serious Nonattainment
CO	Attainment	Attainment/Maintenance
NO_2	Attainment	Attainment/Maintenance
SO_2	N/A	Attainment/Unclassified
Lead	Attainment	Attainment[1]
All others	Attainment/Unclassified	Attainment/Unclassified

Source: South Coast Air Quality Management District (2018).
[1] Except in Los Angeles County.
CO = carbon monoxide
N/A = not applicable
NO_2 = nitrogen dioxide
O_3 = ozone
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
SO_2 = sulfur dioxide

EXISTING CLIMATE AND AIR QUALITY

Air quality in the planning area is not only affected by various emission sources (e.g., mobile and industry), but also by atmospheric conditions (e.g., wind speed, wind direction, temperature, and rainfall). The combination of topography, low mixing height, abundant sunshine, and emissions from

the second-largest urban area in the United States gives the Basin some of the worst air pollution in the nation.

The annual average temperature varies little throughout the Basin, ranging from the low to middle 60s°F. With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The climatological station closest to the site is the Fontana Kaiser Station.[49] The monthly average maximum temperature recorded at this station ranged from 66.8°F in January to 95.0°F in July, with an annual average maximum of 79.4°F. The monthly average minimum temperature recorded at this station ranged from 44.0°F in January to 62.9°F in August, with an annual average minimum of 52.3°F. These levels are representative of the project area.

The majority of annual rainfall in the Basin occurs between November and March. Summer rainfall is minimal and is generally limited to scattered thundershowers in coastal regions and slightly heavier showers in the eastern portion of the Basin and along the coastal side of the mountains. Average monthly rainfall at the Fontana Kaiser station varied from 0.01 inch in July to 3.65 inches in January, with an annual total of 15.32 inches. Patterns in monthly and yearly rainfall totals are unpredictable due to fluctuations in the weather.

The Basin experiences a persistent temperature inversion (increasing temperature with increasing altitude) as a result of the Pacific high. This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer. This phenomenon is observed in mid-afternoon to late afternoon on hot summer days when the air appears to clear up suddenly. Winter inversions frequently break by midmorning.

Winds in the project area blow predominantly from the south-southwest, with relatively low velocities. Wind speeds in the project area average about 5 miles per hour (mph). Summer wind speeds average slightly higher than winter wind speeds. Low average wind speeds, together with a persistent temperature inversion, limit the vertical dispersion of air pollutants throughout the Basin. Strong, dry, north or northeasterly winds, known as Santa Ana winds, occur during the fall and winter months, dispersing air contaminants. The Santa Ana conditions tend to last for several days at a time.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are the lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly on shore into Riverside and San Bernardino Counties. In the winter, the greatest pollution problems are CO and NO_X because of extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and brighter sunshine combine to cause a reaction between hydrocarbons and NO_x to form photochemical smog. Smog is a general term that is naturally occurring fog that has become mixed with smoke or pollution. In this context it is better described as a form of air pollution

[49] Western Regional Climate Center. Recent Climate in the West. Website: http://www.wrcc.dri.edu, (accessed January 2023).

produced by the photochemical reaction of sunlight with pollutants that have been released into the atmosphere, especially by automotive emissions.

AIR QUALITY MONITORING RESULTS

Air quality monitoring stations are located throughout the nation and are maintained by the local air pollution control district and State air quality regulating agencies. The SCAQMD, together with the CARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring station closest to the project site located at 14360 Arrow Boulevard in the City of Fontana.

Pollutant monitoring results for years 2019 to 2021 at the Fontana ambient air quality monitoring station, shown in Table G, indicate that air quality in the area has generally been good. As indicated in the monitoring results, the federal PM_{10} standard had no exceedances in 2019, only one in 2020 and no exceedances 2021. The State PM_{10} standard was exceeded 11 times in 2019, 6 times in 2020, and an unknown number of times in 2021. The $PM_{2.5}$ federal standard had 3 exceedances in 2019, 4 exceedances in 2020, and no exceedances in 2021. The 1-hour ozone State standard was exceeded 41 times in 2019, 56 times in 2020, and an unknown number of times in 2021. The 8-hour ozone State standard was exceeded 71 times in 2019, 91 times in 2020, and an unknown number of times in 2021. The 8-hour ozone federal standard was 67 times in 2019, 89 times in 2020, and 81 times in 2021. In addition, the CO, SO_2, and NO_2 standards were not exceeded in this area during the 3-year period.

GREENHOUSE GAS EMISSIONS INVENTORY

An emissions inventory that identifies and quantifies the primary human-generated sources and sinks of GHGs is a well-recognized and useful tool for addressing climate change. This section summarizes the latest information on global, United States, and California GHG emission inventories.

Global Emissions

Worldwide emissions of GHGs in 2018 totaled 25.6 billion metric tons of CO_2e. Global estimates are based on country inventories developed as part of the programs of the United Nations Framework Convention on Climate Change.[50]

[50] United Nations Framework Convention on Climate Change (UNFCCC). 2021. GHG Data from UNFCCC. Website: unfccc.int/process-and-meetings/transparency-and-reporting/greenhouse-gas-data/ghg-data-unfccc/ghg-data-from-unfccc (accessed January 2023).

Table G: Ambient Air Quality at the Fontana Monitoring Station

Pollutant	Standard	2019	2020	2021
Carbon Monoxide (CO)				
Maximum 1-hour concentration (ppm)		2.7	1.5	1.9
Number of days exceeded:	State: > 20 ppm	0	0	0
	Federal: > 35 ppm	0	0	0
Maximum 8-hour concentration (ppm)		1.0	1.2	1.4
Number of days exceeded:	State: > 9 ppm	0	0	0
	Federal: > 9 ppm	0	0	0
Ozone (O_3)				
Maximum 1-hour concentration (ppm)		0.124	0.151	0.125
Number of days exceeded:	State: > 0.09 ppm	41	56	ND
Maximum 8-hour concentration (ppm)		0.109	0.112	0.103
Number of days exceeded:	State: > 0.07 ppm	71	91	ND
	Federal: > 0.07 ppm	67	89	81
Coarse Particulates (PM_{10})				
Maximum 24-hour concentration (µg/m^3)		85.1	73.6	73.0
Number of days exceeded:	State: > 50 µg/m^3	11	6	ND
	Federal: > 150 µg/m^3	0	0	0
Annual arithmetic average concentration (µg/m^3)		33.7	ND	ND
Exceeded for the year:	State: > 20 µg/m^3	Yes	ND	ND
	Federal: > 50 µg/m^3	No	ND	ND
Fine Particulates ($PM_{2.5}$)				
Maximum 24-hour concentration (µg/m^3)		81.3	57.6	55.1
Number of days exceeded:	Federal: > 35 µg/m^3	3	4	0
Annual arithmetic average concentration (µg/m^3)		ND	12.8	12.0
Exceeded for the year:	State: > 12 µg/m^3	ND	Yes	No
	Federal: > 15 µg/m^3	ND	No	No
Nitrogen Dioxide (NO_2)				
Maximum 1-hour concentration (ppm)		0.076	0.066	0.067
Number of days exceeded:	State: > 0.250 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.017	0.018	0.019
Exceeded for the year:	Federal: > 0.053 ppm	No	No	No
Sulfur Dioxide (SO_2)				
Maximum 1-hour concentration (ppm)		0.0024	0.0025	0.005
Number of days exceeded:	State: > 0.25 ppm	0	0	0
Maximum 24-hour concentration (ppm)		0.0009	0.0009	0.0009
Number of days exceeded:	State: > 0.04 ppm	0	0	0
	Federal: > 0.14 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.00035	0.00041	0.00024
Exceeded for the year:	Federal: > 0.030 ppm	No	No	No

Sources: CARB (2021) and USEPA (2022).
µg/m^3 = micrograms per cubic meter
CARB = California Air Resources Board
ND = No data. There were insufficient (or no) data to determine the value.
ppm = parts per million
USEPA = United States Environmental Protection Agency

United States Emissions

In 2020, the year for which the most recent data are available, the United States emitted about 5,222 million metric tons of CO_2e (MMT CO_2e). Overall, emissions in 2020 decreased by 11 percent since 2019 and were 21 percent lower than 2005 levels. The primary driver for the decrease was an 11 percent decrease in CO_2 emissions from fossil fuel combustion. This decrease was primarily due to a 13 percent decrease in transportation emissions driven by decreased demand due to the ongoing COVID-19 pandemic. Electric power sector emissions also decreased 10 percent, reflecting both a slight decrease in demand from the COVID-19 pandemic and a continued shift from coal to less carbon intensive natural gas and renewables. Of the five major sectors – residential and commercial, agricultural, industry, transportation, and electricity generation – transportation accounted for the highest amount of GHG emissions in 2020 (approximately 27 percent), with electricity generation second at 27 percent and emissions from industry third at 24 percent.[51]

State of California Emissions

The State emitted approximately 369.2 MMT CO_2e emissions in 2020, 35.3 MMT CO_2e lower than 2019 levels and 61.8 MMT CO_2e below the 2020 GHG limit of 431 MMT CO_2e.[52] The California Air Resources Board (CARB) estimates that transportation was the source of approximately 37 percent of the State's GHG emissions in 2020, which is a smaller share than recent years, as the transportation sector saw a significant decrease of 26.6 MMT CO_2e in 2020, likely due in large part to the impact of the COVID-19 pandemic. The next largest sources included industrial sources at approximately 20 percent and electricity generation at 16 percent. The remaining sources of GHG emissions were commercial and residential activities at 10 percent, agriculture at 9 percent, high GWP at 6 percent, and waste at 2 percent.[53]

City of Fontana Emissions

The City of Fontana's goal is to reduce emissions to a level that is 46 percent below that of 2008 GHG emissions by 2030. The City will meet this goal subject to reduction measures that are technologically feasible and cost effective per AB 32 through a combination of State (approximately 75 percent) and local (approximately 25 percent) efforts. The City has exceeded this goal but has committed to several additional local measures. Table H summarizes the 2016 emissions inventory, the 2030 business-as-usual (BAU) forecast, and GHG reduction results by sector. The greatest emissions reductions came from waste, building energy, and on-road transportations.

51 USEPA. 2021. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019. Website: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2019 (accessed January 2023).

52 CARB. 2022a. *California Greenhouse Gas Emissions for 2000 to 2020, Trends of Emissions and Other Indicators Report*. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/inventory/2000-2020_ghg_inventory_trends.pdf (accessed January 2023).

53 Ibid.

Table H: Emission Reductions by Sector

Sector	2016 Emissions (MT CO_2e)	2030 BAU (MT CO_2e)	2030 Reductions (MT CO_2e)	2030 Emissions w/Reduction Plan (MT CO_2e)	Percentage of Reduction
Building Energy	385,933	458,378	285,552	172,826	62.3
On-Road Transportation	616,723	688,753	241,702	446,871	35.1
Off-Road Equipment	23,220	32,595	1,344	31,251	4.1
Waste	86,844	101,750	84,374	17,376	82.9
Agriculture	1,016	572	0	572	0.0
Wastewater Treatment	6,610	7,744	734	7,010	9.5
Water Conveyance	10,581	11,893	1,433	10,461	12.0
GHG Performance Standard*	-	-	34,412	-	-
Total Emissions	**1,130,927**	**1,301,505**	**649,550**	**651,955**	**49.9**
Reduction Goal	-	-	-	698,844	-
Goal Met?	**-**	**-**	**-**	**Yes**	**-**
Reductions Beyond Goal	-	-	-	37,889	-

Source: San Bernardino County GHGRP, Table 3-23 (accessed January 2023).
Note: Values may not sum due to rounding
*The GHG Performance Standard for New Development is not a sector of the inventory, but it contributes toward the City's reduction goal by promoting reductions in multiple sectors.
BAU = business as usual
GHGRP = Greenhouse Gas Reduction Plan
GHG = greenhouse gas
MT CO_2e = metric tons of carbon dioxide equivalent

METHODOLOGY

The methodology used to estimate air quality, health risk, GHG, and energy impacts is described below.

CONSTRUCTION EMISSIONS

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include demolition, site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel and gasoline powered equipment, portable auxiliary equipment, and worker commute trips.

The California Emissions Estimator Model version 2022.1 (CalEEMod) computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. As discussed previously in the Project Description, construction is anticipated to begin in April 2024 and be completed in 10 months, ending in January 2025, which was included in CalEEMod. The proposed project would require the net export of 8,743 cubic yards of soil, which was also included in CalEEMod. In addition, the proposed project would include the demolition of the existing on-site residences, which would include approximately 60,000 square feet of building square footage resulting in approximately 1,380 haul trips, which was included in CalEEMod. This analysis also assumes the use of Tier 4 construction equipment consistent with the Fontana Industrial Commerce Sustainability Standards, which require that project applicants use the highest rated CARB Tier technology available at the time of construction. This analysis also assumes that the proposed project would comply with SCAQMD Rule 403 measures as required by existing regulations. All other construction details are not yet known; therefore, default assumptions (e.g., construction worker and truck trips and fleet activities) from CalEEMod were used.

OPERATIONAL EMISSIONS

The air quality analysis includes estimating emissions associated with long-term operation of the proposed project. Consistent with the SCAQMD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project. As discussed in the Project Description, the proposed project would include the demolition of 40 residential units (approximately 60,000 sq ft) to construct a 490,595 sq ft warehouse building and associated improvements. Therefore, the existing uses analysis was conducted using land code *Single Family Housing*. The proposed project analysis was conducted using land use codes *Unrefrigerated Warehouse- No Rail*, and *Parking Lot*. Trip generation rates used in CalEEMod for the project were based on the project's *Vehicle Miles Traveled (VMT) Screening Analysis*[54], which identifies that the existing uses would generate approximately 387 average daily trips and the proposed project would generate approximately 687 average daily trips, including 547 passenger vehicle trips, 24 two-axle truck trips, 32 three-axle truck

[54] Environment Planning Development Solutions, Inc. 2022. *Trip Generation and Vehicles Miles Traveled (VMT) Screening Analysis for the Catawba Avenue Industrial Building Project.* September 8.

trips, and 84 four-axle truck trips. This analysis assumes that the four+-axle truck trips would travel approximately 40 miles. To be conservative, separate CalEEMod analyses were prepared for the operational analysis. One CalEEMod run evaluated operational and vehicle trip emissions and another CalEEMod run evaluated four+-axle truck trip emissions.

CONSTRUCTION HEALTH RISK ASSESSMENT

A construction health risk assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). The HRA analyses used PM_{1o} emissions to represent DPM emissions, consistent with Office of Environmental Health Hazard Assessment (OEHHA) guidance[55]. Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data. Meteorological and terrain model inputs are included in the AERMOD input files. In addition, health risk variables are included in the HARP2 model output files. Concentrations presented are flagpole height: 0.

OPERATIONAL HEALTH RISK ASSESSMENT

To determine the potential health risk to people living and working near the proposed project associated with the exhaust of diesel-powered trucks and equipment, an operational HRA was conducted for the proposed project. This HRA has been conducted using three models: (1) EMFAC2021 for on-road vehicle emissions factors and percentages of fuel type within the overall vehicle fleet; (2) the USEPA AERMOD air dispersion model to determine how the TACs would move through the atmosphere after release from sources both on site and on surrounding roadways; and (3) CARB's HARP2 model to translate the pollutant concentrations from AERMOD into individual health risks at any sensitive receptor locations surrounding the project site.

The first step of an HRA is to characterize the project-related emissions of TACs. The proposed project would generate approximately 687 average daily trips, including 547 passenger vehicle trips, 24 two-axle truck trips, 32 three-axle truck trips, and 84 four-axle truck trips. The trucks would access the site by two driveways located in Poplar Avenue and two driveways located in Catawba Avenue. The proposed project would provide 42 dock doors; as the project would contain multiple loading docks, off-site queuing of trucks is not anticipated. While the TAC emissions from gasoline-powered vehicles have a small health effect compared to diesel particulate matter (DPM), this HRA includes both gasoline- and diesel-powered vehicle emissions. For the diesel exhaust emissions, it is sufficient to only consider the DPM (PM_{10} and $PM_{2.5}$) portions of the exhaust; all the TACs for the gasoline exhaust emissions are contained in the ROG emissions. Using speciation data from CARB,

[55] Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments, February 2015, http://oehha.ca.gov/air/hot_spots/hotspots2015.html, accessed September 2022.

the emission rates of the TAC components are derived from the total ROG emissions. These data are attached.

Project trucks would operate in two modes: stationary idling and moving on and off the site. The emissions from trucks while idling result in a much higher concentration of TACs at nearby sensitive receptors compared to the emissions from moving trucks. This is due to the dispersion of emissions that occurs with distance and with travel of the vehicle. For this HRA, the truck travel emissions were modeled as a series of volume sources along the on-site driveways, along Poplar Avenue and Catawba Avenue going north and south. LSA assumed vehicles traveling on site would maneuver slowly, averaging approximately 5–15 mph, and that vehicles traveling on roadways would average 5–55 mph.

The idling emissions of trucks operating on the project site were modeled as point sources within the area sources representing the planned loading docks. EMFAC2021 was used to determine the emissions factors of idling and operating diesel trucks to determine the total emissions of DPM. While it is expected that the truck emissions rate will continue to reduce over time, an HRA only allows for a single emission rate to represent the entire 30-year exposure period. The use of emissions factors for the year 2023, was used as a conservative estimate of emissions, although, the project is not expected to be fully operational until 2025.

ENERGY USE

The analysis of electricity/natural gas usage is based on the CalEEMod modeling conducted by LSA, which quantifies energy use for project operations. Fuel consumption (diesel fuel and gasoline) from vehicle trips during operation was estimated for the opening year (2025) of the proposed project based on trip estimates from the CalEEMod model and fuel efficiencies from the CARB EMission FACtor Model (EMFAC2021) model. Estimates of fuel consumption (diesel fuel and gasoline) from construction trucks and construction worker vehicles were based on trip estimates from the CalEEMod model and fuel efficiencies from the CARB EMFAC2021 model.

The analysis focuses on the three sources of energy that are relevant to the proposed project: electricity, the equipment fuel necessary for project construction, and vehicle fuel necessary for project operations. For the purposes of this analysis, the amount of electricity, construction fuel, and fuel use from operations are quantified and compared to that consumed in San Bernardino County. The electricity use of the proposed project is analyzed as a whole on an annual basis. Electricity use was estimated for the project using default energy intensities by land use type in CalEEMod.

GREENHOUSE GAS ANALYSIS

Recognizing that the field of global climate change analysis is rapidly evolving, the approaches advocated most recently indicate that for determining a project's contribution to GHG emissions, lead agencies should calculate, or estimate, emissions from vehicular traffic, energy consumption, water conveyance and treatment, waste generation, construction activities, and any other significant source of emissions within the project area. The CalEEMod results were used to quantify GHG emissions generated by the project. In addition, consistent with the Fontana Industrial

Commerce Sustainability Standards, this analysis assumes that the proposed project would be required to implement a number of sustainable design features that would reduce GHG emissions. As the project is larger than 400,000 square feet, this analysis assumes that the proposed project would install rooftop panels that they would supply 100 percent of the electricity needed to operate all non-refrigerated portions of the building and parking areas. Therefore, the CalEEMod assumes installation of solar panels that would offset 100 percent of the project's electricity demand.

THRESHOLDS OF SIGNIFICANCE

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would:

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

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse energy impact if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse greenhouse gas emission impact if the project would:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reduction the emissions of greenhouse gases.

Certain air districts (e.g., SCAQMD) have created guidelines and requirements to conduct air quality analysis. The SCAQMD's current guidelines, its *CEQA Air Quality Handbook* with associated updates, were followed in this assessment of air quality and GHG impacts for the proposed project.

CRITERIA POLLUTANT THRESHOLDS

SCAQMD has established daily emissions thresholds for construction and operation of a proposed project in the Basin. The emissions thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emissions thresholds are regarded as conservative and would overstate an individual project's contribution to health risks.

Table I lists the CEQA significance thresholds for construction and operational emissions established for the Basin. Projects in the Basin with construction- or operation-related emissions that exceed any of their respective emission thresholds would be considered significant under SCAQMD guidelines. These thresholds, which SCAQMD developed and that apply throughout the Basin, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and cumulative impact.

Table I: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (lbs/day)					
	VOCs	NO_x	CO	PM_{10}	$PM_{2.5}$	SO_x
Construction	75	100	550	150	55	150
Operations	55	55	550	150	55	150

Source: SCAQMD. Air Quality Significance Thresholds. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf (accessed January 2023).

CO = carbon monoxide
lbs/day = pounds per day
NO_x = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

HEALTH RISK THRESHOLDS

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the Basin:

- **MICR:** MICR is the estimated probability of a maximally exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations and over a period of 25 years for workers. The MICR calculations include multipathway consideration, when applicable.

  The cumulative increase in MICR that is the sum of the calculated MICR values for all TACs would be considered significant if it would result in an increased MICR greater than 10 in 1 million (1×10^{-5}) at any receptor location.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multipathway consideration, when applicable.

  The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level.

  The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

The SCAQMD's *CEQA Air Quality Handbook*[56] states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 10 in 1 million. Based on guidance from SCAQMD in the document *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*[57], for the purposes of this analysis, the threshold of 10 in 1 million was used as the cancer risk threshold for the proposed project.

LOCALIZED IMPACTS ANALYSIS

The SCAQMD published its *Final Localized Significance Threshold Methodology* in July 2008, recommending that all air quality analyses include an assessment of air quality impacts to nearby sensitive receptors.[58] This guidance was used to analyze potential localized air quality impacts associated with construction of the proposed project. Localized significance thresholds (LST) are developed based on the size or total area of the emission source, the ambient air quality in the source receptor area, and the distance to the project. Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality.

LSTs are based on the ambient concentrations of that pollutant within the project Source Receptor Area (SRA) and the distance to the nearest sensitive receptor. For the proposed project, the appropriate SRA for the LST is the nearby Central San Bernardino Valley (SRA 34). SCAQMD provides LST screening tables for 25, 50, 100, 200, and 500-meter source-receptor distances. As identified above, there are no sensitive receptors located within 1,000 feet of the project site. The closest sensitive receptors to the project site are residential uses such as the single-family homes located approximately 1,325 feet (404 meters) northeast of the project's northern boundary south of Tyrol Drive. Based on the anticipated construction equipment, it is assumed that the maximum daily disturbed acreage for the proposed project would be 3.5 acres.[59] Table J lists the emissions thresholds that apply during project construction and operation.

Table J: South Coast Air Quality Management District Localized Significance Thresholds

Emissions Source	Pollutant Emissions Threshold (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Construction	635.0	19,715.0	178.0	86.0
Operations	635.0	19,715.0	43.0	21.0

Source: South Coast Air Quality Management District (2008).
CO = carbon monoxide
lbs/day = pounds per day
NO_x = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

56 SCAQMD. 1993. *CEQA Air Quality Handbook* (currently under revision).
57 SCAQMD. 2003. *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*. August.
58 SCAQMD. 2008a. *Final Localized Significance Threshold Methodology*. July.
59 SCAQMD. n.d. *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds*. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf (accessed January 2023).

LOCAL MICROSCALE CONCENTRATION STANDARDS

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the Basin, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 parts per million (ppm)
- California State 8-hour CO standard of 9 ppm

GLOBAL CLIMATE CHANGE

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, SCAQMD convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting held in September 2010 (Meeting No. 15), SCAQMD proposed to adopt a tiered approach for evaluating GHG emissions for development projects where SCAQMD is not the lead agency:

- **Tier 1. Exemptions:** If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.

- **Tier 2. Consistency with a locally adopted GHG Reduction Plan:** If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.

- **Tier 3. Numerical Screening Threshold:** If GHG emissions are less than the numerical screening-level threshold, project-level and cumulative GHG emissions are less than significant.

  For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, SCAQMD requires an assessment of GHG emissions. SCAQMD, under Option 1, is proposing a "bright-line" screening-level threshold of 3,000 MT CO_2e per year (or MT CO_2e/yr) for all land use types or, under Option 2, the following land-use-specific thresholds: 1,400 MT CO_2e commercial projects; 3,500 MT CO_2e for residential projects; or 3,000 MT CO_2e for mixed-use projects. This bright-line threshold is based on a review of the OPR database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds identified above. Therefore, projects that do not exceed the bright-line threshold would have a nominal and therefore less than cumulatively considerable impact on GHG emissions.

- **Tier 4. Performance Standards:** If emissions exceed the numerical screening threshold, a more detailed review of the project's GHG emissions is warranted. SCAQMD has proposed an efficiency target for projects that exceed the bright-line threshold. The current recommended approach is per capita efficiency targets. SCAQMD is not recommending use of a percent emissions reduction target. Instead, SCAQMD proposes a 2020 efficiency target of 4.8 MT

CO_2e/yr per service population (for project-level analyses and 6.6 MT CO_2e/yr per service population for plan-level projects (e.g., program-level projects such as general plans). The GHG efficiency metric divides annualized GHG emissions by the service population, which is the sum of residents and employees, per the following equation:

Rate of Emission: GHG Emissions (MT CO_2e/yr) ÷ Service Population

The efficiency evaluation consists of comparing the project's efficiency metric to efficiency targets. Efficiency targets represent the maximum quantity of emissions each resident and employee in the State of California could emit in various years based on emissions levels necessary to achieve the statewide GHG emissions reduction goals. A project that results in a lower rate of emissions would be more efficient than a project with a higher rate of emissions, based on the same service population. The metric considers GHG reduction measures integrated into a project's design and operation (or through mitigation). The per capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for the CARB's 2008 Scoping Plan.

For the purpose of this analysis, the proposed project will be compared to the screening-level Tier 3 Numerical Screening Threshold of 3,000 MT CO_2e/yr for industrial projects. The project is also evaluated for compliance with the San Bernardino County Regional GHGRP, the 2022 Scoping Plan, and the 2020–2045 RTP/SCS.

IMPACTS ANALYSIS

This section identifies the air quality, energy, and GHG emissions impacts associated with implementation of the proposed project.

AIR QUALITY IMPACTS

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from operational activities associated with the proposed land uses.

Consistency with Applicable Air Quality Plans

A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed. Only new or amended General Plan elements, Specific Plans, and significantly unique projects need to undergo a consistency review due to the air quality plan strategy being based on projections from local General Plans.

The AQMP is based on regional growth projections developed by SCAG. The proposed project would include 490,565 sq ft of warehouse uses. The proposed project would not house more than 1,000 persons, occupy more than 40 acres of land, or encompass more than 650,000 sq ft of floor area. Thus, the proposed project would not be defined as a regionally significant project under CEQA; therefore, it does not meet SCAG's Intergovernmental Review criteria.

The City's General Plan is consistent with the SCAG Regional Comprehensive Plan Guidelines and the SCAQMD AQMP. Pursuant to the methodology provided in the SCAQMD's *CEQA Air Quality Handbook*, consistency with the Basin 2022 AQMP is affirmed when a project (1) would not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP. Consistency review is presented as follows:

1. The project would result in short-term construction and long-term operational pollutant emissions that are all less than the CEQA significance emissions thresholds established by SCAQMD, as demonstrated below; therefore, the project would not result in an increase in the frequency or severity of an air quality standards violation or cause a new air quality standard violation.

2. The *CEQA Air Quality Handbook* indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and significant projects. Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities; therefore, the proposed project is not defined as significant.

The project would include a General Plan Amendment to change the existing land use designation from Residential Trucking (R-T) to General Industrial (I-G) and a Specific Plan Amendment to change the site's existing SWIP designation from Residential Trucking District (RTD) to Slover East Industrial District (SED). With respect to determining the proposed project consistency with the air quality plan growth assumptions, the projections in the AQMP for achieving air quality goals are based on assumptions in SCAG's RTP/SCS regarding population, housing, and growth trends. According to SCAG's 2020—2045 RTP/SCS, the City's population, households, and employment are forecast to increase by approximately 74,400 residents, 26,400 households, and 23,600 jobs, respectively, between 2016 and 2045.[60] The average number of employees in a warehouse is one per 1,195 sq ft.[61] The proposed project would construct a 490,565 sq ft building that would accommodate approximately 411 new employees. The additional 411 employees would fall within the 23,600 projected jobs projected for the City. Therefore, it is assumed that it the project's labor demand would not substantially increase population, households, or employment in the City. As such, the project would be consistent with SCAG's goals for new job growth in the region

In addition, since the proposed project would not include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities, the proposed project is not defined as a significant project as defined by the SCAQMD's *CEQA Air Quality Handbook*. Therefore, it is unlikely that the proposed project would interfere with SCAQMD's goals for improving air quality in the region. The proposed project would not conflict with the 2022 AQMP and, as such, would not jeopardize attainment of the CAAQS and NAAQS in the area under the jurisdiction of the SCAQMD.

Based on the consistency analysis presented above, the proposed project would be consistent with the regional AQMP.

Criteria Pollutant Analysis

The Basin is designated as non-attainment for O_3 and $PM_{2.5}$ for federal standards and non-attainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards. The SCAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of AAQS. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

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60 Southern California Association of Governments (SCAG). 2020. *Connect SoCal 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy.* Website: https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan_0.pdf?1606001176 (accessed January 2023).

61 SCAG. 2001. Employment Density Study Summary Report. Website: https://www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D (accessed February 2023)

In developing thresholds of significance for air pollutants, the SCAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is unnecessary. The following analysis assesses the potential project-level construction- and operation-related air quality impacts.

Construction Emissions

During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, paving, building, and other activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, ROG, directly-emitted particulate matter ($PM_{2.5}$ and PM_{10}), and TACs such as diesel exhaust particulate matter.

Project construction activities would include demolition, grading, site preparation, building, paving, and architectural coating activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The SCAQMD has established Rule 403: Fugitive Dust, which would require the applicant to implement measures that would reduce the amount of particulate matter generated during the construction period.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, VOCs and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod. Table K lists the tentative project construction schedule based on a 10-month construction duration. Table L lists the potential construction equipment to be used during project construction under each phase of construction. Construction-related emissions are presented in Table M. CalEEMod output sheets are included in Appendix A.

Table K: Tentative Project Construction Schedule

Phase Number	Phase Name	Phase Start Date	Phase End Date	Number of Days/Week	Number of Days
1	Demolition	4/1/2024	4/26/2024	5	20
2	Site Preparation	4/29/2024	5/17/2024	5	15
3	Grading	5/20/2024	6/7/2024	5	15
4	Building Construction	6/10/224	1/3/2025	5	150
5	Paving	1/6/2025	1/17/2025	5	10
6	Architectural Coating	10/14/2024	1/24/2025	5	75

Source: Compiled by LSA assuming construction will start in April 2024 and occur for approximately 10 months (January 2023).

Table L: Diesel Construction Equipment Utilized by Construction Phase

Construction Phase	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	1	8	33	0.73
	Excavators	3	8	36	0.38
	Rubber Tired Dozers	2	8	367	0.4
Site Preparation	Rubber Tired Dozers	3	8	367	0.4
	Tractors/Loaders/Backhoes	4	8	84	0.37
Grading	Excavators	2	8	36	0.38
	Graders	1	8	148	0.41
	Rubber Tired Dozers	1	8	367	0.4
	Scrapers	2	8	423	0.48
	Tractors/Loaders/Backhoes	2	8	84	0.37
Building Construction	Cranes	1	7	367	0.29
	Forklifts	3	8	82	0.2
	Generator Sets	1	8	14	0.74
	Tractors/Loaders/Backhoes	3	7	84	0.37
	Welders	1	8	46	0.45
Paving	Pavers	2	8	81	0.42
	Paving Equipment	2	8	89	0.36
	Rollers	2	8	36	0.38
Architectural Coating	Air Compressors	1	6	37	0.48

Source: Compiled by LSA using CalEEMod defaults (January 2023).
CalEEMod = California Emissions Estimator Model

Table M: Project Construction Emissions (lbs/day)

Project Construction	Maximum Pollutant Emissions (lbs/day)					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Demolition	0.8	28.0	21.1	<0.1	4.7	1.4
Site Preparation	1.2	39.9	29.8	<0.1	9.0	5.0
Grading	1.5	55.2	40.6	0.1	6.7	3.2
Building Construction	1.8	22.8	33.3	<0.1	4.1	1.5
Paving	1.8	13.4	11.5	<0.1	0.8	0.6
Architectural Coating	61.6	1.3	3.4	<0.1	0.6	0.2
Maximum (lbs/day)	**63.4**	**55.2**	**40.6**	**0.1**	**9.0**	**5.0**
SCAQMD Thresholds	75.0	100.0	550.0	150.0	150.0	55.0
Exceeds?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2023).
Note: Maximum emissions of VOCs and CO occurred during the overlapping building construction and architectural coating phases.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

As shown in Table M, construction emissions associated with the project would not exceed the SCAQMD thresholds for ROGs, NO_x, CO, sulfur oxides (SO_X), $PM_{2.5}$, or PM_{10} emissions. In addition to the construction period thresholds of significance, the project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Even through the project's construction would not exceed any of the emissions thresholds as noted in Table M, compliance with Rule 403 dust suppression techniques can further reduce the fugitive dust generation (and thus, the PM_{10} component). With compliance with Rule 403, construction of the proposed project would not result in emissions that would result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under an applicable federal or State ambient air quality standard. Therefore, the proposed project would not lead to new or substantially more severe significant impacts associated with construction-related air quality.

Operational Air Quality Impacts

Long-term air pollutant emission impacts are those typically associated with mobile sources (e.g., vehicle and truck trips), energy sources (e.g., natural gas), area sources (e.g., architectural coatings and the use of landscape maintenance equipment), stationary sources (e.g., use of the fire pump).

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other PM emission processes.

Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source. Greater building or appliance efficiency reduces the amount of energy for a given activity and thus lowers the resultant emissions. The emission factor is determined by the fuel source, with cleaner energy sources, like renewable energy, producing fewer emissions than conventional sources.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Stationary source emissions are associated with use of the fire pump.

Long-term operation emissions associated with the proposed project were calculated using CalEEMod. Model results are shown in Table N below. CalEEMod output sheets are included in Appendix A.

Table N: Project Operational Emissions

Emission Type	Pollutant Emissions (lbs/day)					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Existing Uses Operational Emissions						
Area Sources	12.5	0.8	22.6	<0.1	2.9	2.8
Energy Sources	<0.1	0.3	0.1	<0.1	<0.1	<0.1
Mobile Sources	1.8	1.8	15.7	<0.1	1.1	0.2
Total Existing Uses Emissions	14.3	2.9	38.4	<0.1	4.0	3.0
Proposed Project Operational Emissions						
Area Sources	15.3	0.2	21.3	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Mobile Sources – Vehicle Trips and Light Duty Trucks	2.2	2.7	25.9	0.1	2.3	0.4
Mobile Sources – Heavy Heavy Duty Truck Trips	0.2	13.2	6.8	0.1	1.8	0.6
Stationary Sources	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Proposed Project Emissions	17.7	16.1	54.0	0.2	4.1	1.0
Total Net Operational Emissions	**3.4**	**13.2**	**15.6**	**0.2**	**0.1**	**-2.0**
SCAQMD Thresholds	**55.0**	**55.0**	**550.0**	**150.0**	**150.0**	**55.0**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2023).
CO = carbon monoxide
NO_x = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_x = sulfur oxides
VOCs = volatile organic compounds

The results shown in Table N indicate the project would not exceed the significance criteria for VOCs, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ emissions; thus, the proposed project would not have a significant effect on regional air quality. Therefore, operation of the project would not result in a

cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under an applicable federal or State ambient air quality standard.

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the project vicinity. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, CO disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at Fontana station, the closest station to the project site, showed a highest recorded 1-hour concentration of 2.7 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.4 ppm (the State standard is 9 ppm) during the past 3 years (Table G). The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

As described in the Trip Generation Analysis[62], the proposed project would generate 10 net new AM peak hour trips and 20 net new PM peak-hour trips. As the proposed project would not generate 100 or more AM or PM peak hour trips, the proposed project did not meet the criteria for an evaluation of study area intersection or roadway segment LOS. Therefore, it is assumed that the addition of the proposed project traffic would not create any significant adverse impacts to nearby intersections.

Therefore, given the extremely low level of CO concentrations in the project area, and lack of traffic impacts at any intersections, project-related vehicles are not expected to contribute significantly to result in the CO concentrations exceeding the State or federal CO standards.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as people that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. The closest sensitive receptors to the project site are residential uses such as single-family homes located approximately 1,325 feet northeast of the project northern boundary south of Tyrol Drive.

62 Environment Planning Development Solutions, Inc. 2022. op. cit.

The following section describes the potential impacts on sensitive receptors from construction and operation of the proposed project. The HRA analysis and results are presented below; data outputs are included in Appendix B.

Construction Health Risk Assessment

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. Table O, below, identifies the results of the analysis assuming the use of Tier 4 construction equipment, as proposed by the project, at the MEI, which is the nearest sensitive receptor. The sensitive receptor MEI includes the single-family residence located at the northeast corner Santa Ana Avenue and Citrus Avenue and the worker receptor MEI includes the industrial uses located to the east of the project site across Catawba Avenue. Model snap shots of the sources are shown in Appendix B of this EIR.

Table O: Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Worker Receptor Risk	0.04	0.003	0.000
Sensitive Receptor Risk	0.23	0.000	0.000
SCAQMD Significance Threshold	**10.0 in one million**	**1.0**	**1.0**
Significant?	**No**	**No**	**No**

Source: LSA (January 2023).
SCAQMD = South Coast Air Quality Management District

As shown in Table O, the maximum cancer risk for the sensitive receptor MEI would be 0.23 in one million, which would not exceed the SCAQMD cancer risk threshold of 10 in one million. The worker receptor risk would be lower at 0.04 in one million, which would also not exceed the SCAQMD cancer risk thresholds. The total chronic hazard index would be 0.003 for the worker receptor MEI and nominal (0.000) for the sensitive receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SCAQMD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions.

Operational Health Risk Assessment

To determine the potential health risk to people living and working near the proposed project associated with the exhaust of diesel-powered trucks and equipment, an operational HRA was conducted for the proposed project. The carcinogenic and chronic health risks from the proposed project are shown in Table P. The residential risk incorporates both the risk for a child living in a nearby residence for 9 years (the standard period of time for child risk) and an adult living in a nearby residence for 30 years (considered a conservative period of time for an individual to live in any one residence). As indicated above, the sensitive receptor MEI includes the single-family residence located at the northeast corner Santa Ana Avenue and Citrus Avenue and the worker

receptor MEI includes the industrial uses located to the east of the project site across Catawba Avenue. The HRA model snapshots and outputs are included in Appendix B.

Table P: Health Risks from Project Operation to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Worker Receptor Risk	0.40	0.001	0.000
Sensitive Receptor Risk	2.34	0.001	0.000
SCAQMD Significance Threshold	**10.0 in one million**	**1.0**	**1.0**
Significant?	**No**	**No**	**No**

Source: LSA (January 2023).
SCAQMD = South Coast Air Quality Management District

As shown in Table P, the maximum cancer risk for the sensitive receptor MEI would be 2.34 in one million, less than the threshold of 10 in one million. The worker receptor risk would be lower at 0.40 in one million. The total chronic hazard index would be 0.001 for both the worker receptor MEI and the sensitive receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. As these results show, all health risk levels to nearby residents from operation-related emissions of TACs would be well below the SCAQMD's HRA thresholds. No significant health risk would occur from project operation emissions.

Localized Significance Analysis

Project construction and operation emissions were compared to the LST screening tables in SRA 34, based on a 404-meter source-receptor distance and a disturbed acreage of 3.5 acres.

Table Q indicates the on-site construction emissions would not exceed the LSTs for the nearby residences. Therefore, construction of the proposed project would not result in a locally significant air quality impact.

Table Q: Project Localized Construction Emissions (lbs/day)

Source	NO_x	CO	PM_{10}	$PM_{2.5}$
On-Site Project Emissions	24.9	18.2	3.8	1.2
Localized Significance Threshold	635.0	19,715.0	178.0	86.0
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2023)
Note: Source Receptor Area 34, based on a 3.5-acre construction disturbance daily area, at a distance of 404 meters from the project boundary.
CO= carbon monoxide
lbs/day = pounds per day
NO_x= nitrogen oxides
$PM_{2.5}$= particulate matter less than 2.5 microns in size
PM_{10}= particulate matter less than 10 microns in size

CO= carbon monoxide
lbs/day = pounds per day
NO_x= nitrogen oxides
$PM_{2.5}$= particulate matter less than 2.5 microns in size
PM_{10}= particulate matter less than 10 microns in size

By design, the localized impacts analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions detailed in Table R assume all area and stationary source emissions would occur on site, all of the energy source emissions would occur off site at the utility power stations, and 5 percent of the project-related new mobile sources, which is an estimate of the amount of project-related on-site vehicle and truck travel, would occur on site. Considering the total trip length included in CalEEMod, the 5 percent assumption is conservative. Table R indicates the localized operational emissions would not exceed the LSTs at nearby residences. Therefore, the proposed operational activity would not result in a locally significant air quality impact.

Table R: Project Localized Operational Emissions (lbs/day)

Source	NO_x	CO	PM_{10}	$PM_{2.5}$
On-Site Project Emissions	1.0	22.9	0.2	0.1
Localized Significance Threshold	635.0	19,715.0	43.0	21.0
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (January 2023)
Note: Source Receptor Area 34, based on a 3.5-acre construction disturbance daily area, at a distance of 404 meters from the project boundary.

The results of the LST analysis, summarized in Tables Q and R, indicate that the project would not result in an exceedance of the SCAQMD LSTs during project construction or operation.

Odors

During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed project would not include any activities or operations that would generate objectionable odors and once operational, the project would not be a source of odors. Therefore, the proposed project would not result in other emissions (such as those leading to odors) affecting a substantial number of people

ENERGY IMPACTS

The following describes the potential impacts regarding energy resources that could result from implementation of the proposed project.

Energy Consumption

The proposed project would increase the demand for energy through day-to-day operations and fuel consumption associated with project construction. This section discusses energy use resulting from implementation of the proposed project and evaluates whether the proposed project would result in the wasteful, inefficient, or unnecessary consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency.

Construction Energy Use

Construction of the proposed project is anticipated to begin in April 2024 and be completed in January 2025. The project would require energy for activities such as the manufacture and

transportation of building materials, grading activities, and building construction. Construction of the proposed project would require electricity to power construction-related equipment. Construction of the proposed project would not involve the consumption of natural gas. The construction-related equipment would not be powered by natural gas, and no natural gas demand is anticipated during construction.

Transportation energy represents the largest energy use during construction and would occur from the transport and use of construction equipment, delivery vehicles and haul trucks, and construction worker vehicles that would use petroleum fuels (e.g., diesel fuel and/or gasoline). Therefore, the analysis of energy use during construction focuses on fuel consumption. Construction trucks and vendor trucks hauling materials to and from the project site would be anticipated to use diesel fuel, whereas construction workers traveling to and from the project site would be anticipated to use gasoline-powered vehicles. Fuel consumption from transportation uses depends on the type and number of trips, VMT, the fuel efficiency of the vehicles, and the travel mode.

Estimates of fuel consumption (diesel fuel and gasoline) from construction equipment, construction trucks, and construction worker vehicles were based on default construction equipment assumptions and trip estimates from CalEEMod and fuel efficiencies from EMFAC2021. Fuel consumption estimates are presented in Table S. CalEEMod output sheets are included in Appendix A and detailed energy calculations are included in Appendix C.

Table S: Proposed Project Energy Consumption Estimates during Construction

Energy Type	Total Energy Consumption	Percentage of Increase Countywide
Diesel Fuel (total gallons)	71,954.2	0.02
Gasoline (total gallons)	48,144.7	<0.01

Source: Compiled by LSA (January 2023).

As indicated in Table S, the project would consume approximately 71,954.2 gallons of diesel fuel and approximately 48,144.7 gallons of gasoline during construction. Based on fuel consumption obtained from EMFAC2021, approximately 907.3 million gallons of gasoline and approximately 325.0 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2023. Therefore, construction of the proposed project would increase the annual construction generated fuel use in San Bernardino County approximately by approximately 0.02 percent for diesel fuel usage and by less than 0.01 percent for gasoline fuel usage. As such, project construction would have a negligible effect on local and regional energy supplies. Furthermore, impacts related to energy use during construction would be temporary and relatively small in comparison to San Bernardino County's overall use of the State's available energy resources. No unusual project characteristics would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the region or the State. In addition, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. The project would not cause or result in the need for additional energy facilities or an additional or expanded delivery system. For these reasons, fuel consumption during construction would not be inefficient, wasteful, or unnecessary.

Operational Energy Use

Operational energy use is typically associated with electricity consumption and fuel used for vehicle trips associated with a project. Energy consumption was estimated for the proposed project using default energy intensities by land use type in CalEEMod. The operation-related equipment would not be powered by natural gas, and no natural gas demand is anticipated during operation of the proposed project. The proposed project would also result in diesel usage associated with the fire pump; however, the fire pump is only expected to run approximately one hour per month. Therefore, use of the fire pump is not expected to substantially increase diesel fuel usage and is not evaluated further.

The proposed project would also result in energy usage associated with gasoline and diesel fuel consumed by project-related vehicle and truck trips. Fuel use associated with vehicle and truck trips generated by the proposed project was calculated based on the project's Trip Generation and VMT Screening Analysis [63], which identifies that the existing uses would generate approximately 387 average daily trips and the proposed project would generate approximately 687 average daily trips, including 547 passenger vehicle trips, 24 two-axle truck trips, 32 three-axle truck trips, and 84 four-axle truck trips. The amount of operational fuel use was estimated using CARB's EMFAC2021 model, which provided projections for typical daily fuel usage in San Bernardino County.

Electricity and fuel usage estimates associated with the proposed project are shown in Table T.

Table T: Proposed Project Energy Consumption Estimates during Operation

Energy Type	Annual Energy Consumption
Existing Uses Energy Estimates	
Electricity Consumption (kWh/year)	304,385.0
Natural Gas Consumption (therms/year)	12,518.0
Automotive Fuel Consumption	
Gasoline (gallons/year)	53,587.3
Diesel Fuel (gallons/year)	8,213.6
Proposed Project Energy Estimates	
Electricity Consumption (kWh/year)	2,440,679.0
Natural Gas Consumption (therms/year)	0.0
Automotive Fuel Consumption	
Gasoline (gallons/year)	102,335.7
Diesel Fuel (gallons/year)	219,711.5
Total Net Electricity Consumption	**2,136,294.0**
Total Net Natural Gas Consumption	**-12,518.0**
Total Net Gasoline Consumption	**48,748.4**
Total Net Diesel Consumption	**211,497.9**

Source: Compiled by LSA (January 2023).
kWh = kilowatt-hours

As shown in Table T, the estimated potential net increase in electricity demand associated with the operation of the proposed project is 2,136,294 kWh per year. Total electricity consumption in San Bernardino County in 2021 was 16,180.8 GWh (16,180,811,158 kWh). Therefore, operation of the

63 Environment Planning Development Solutions, Inc. 2022. op. cit.

proposed project would increase the annual electricity consumption in San Bernardino County by approximately 0.01 percent.

As shown in Table T, the proposed project would result in a net decrease of 12,518 therms per year of natural gas from the existing uses. Total natural gas consumption in San Bernardino County in 2021 was 561 million therms (561,360,617 therms). Operation of the proposed project would not increase the annual natural gas consumption in San Bernardino County.

Electrical demand associated with project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region. Furthermore, the proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. The project would be required to adhere to all federal, State, and local requirements for energy efficiency, including the Title 24 standards. Title 24 building energy efficiency standards establish minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting, which would reduce energy usage.

As shown in Table T, fuel use associated with the vehicle trips generated by the proposed project is estimated at 48,748.4 gallons of gasoline and 211,497.9 gallons of diesel fuel per year. This analysis conservatively assumes that all vehicle trips generated as a result of project operation would be new to San Bernardino County. Based on fuel consumption obtained from EMFAC2021, approximately 907.3 million gallons of gasoline and approximately 325.0 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2023. Therefore, vehicle and truck trips associated with the proposed project would increase the annual fuel use in San Bernardino County by less than 0.01 percent for gasoline fuel usage and approximately 0.06 percent for diesel fuel usage. Fuel consumption associated with vehicle trips generated by project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

Conflict with Renewable Energy or Energy Efficiency Plans

In 2002, the Legislature passed SB 1389, which required the CEC to develop an integrated energy plan every two years for electricity, natural gas, and transportation fuels for the Integrated Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for ZEVs and their infrastructure needs, and encouragement of urban designs that reduce VMT and accommodate pedestrian and bicycle access.

The CEC's *2021 Integrated Energy Policy Report* and *2022 Integrated Energy Policy Report Update* provide the results of the CEC's assessments of a variety of energy issues facing California. As indicated above, energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the overall use in the County. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the overall use in San Bernardino County, and the State's available energy resources. Therefore, energy impacts at the regional level would be negligible. Because California's energy conservation planning actions are conducted at a regional level, and because the proposed project's total impact

on regional energy supplies would be minor, the proposed project would not conflict with or obstruct California's energy conservation plans as described in the CEC's Integrated Energy Policy Report. Additionally, as demonstrated above, the proposed project would not result in the inefficient, wasteful, and unnecessary consumption of energy. Potential impacts related to conflict with or obstruction of a State or local plan for renewable energy or energy efficiency would be less than significant, and no mitigation is required.

GREENHOUSE GAS IMPACTS

This section describes the potential GHG impacts associated with implementation the proposed project.

Generation of Greenhouse Gas Emissions

This section describes the proposed project's construction- and operational-related GHG emissions and contribution to global climate change. The SCAQMD has not addressed emission thresholds for construction in its *CEQA Air Quality Handbook*; however, the SCAQMD requires quantification and disclosure. Thus, an evaluation of the project's impacts related to the release of GHG emissions for both construction and operational phases of the project is described below.

Short-Term Greenhouse Gas Emissions

Demolition and construction activities associated with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

As indicated above, the SCAQMD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are required to quantify and disclose GHG emissions that would occur during construction. The SCAQMD then requires the construction GHG emissions to be amortized over the life of the project, defined by the SCAQMD as 30 years[64], added to the operational emissions, and compared to the applicable interim GHG significance threshold tier.

Using CalEEMod, it is estimated that the project would generate approximately 736.6 MT CO_2e during construction of the project. When annualized over the 30-year life of the project, annual emissions would be 24.6 MT CO_2e.

Long-Term Greenhouse Gas Emissions

Long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), stationary sources (e.g., use of the fire

[64] The SCAQMD has identified the average operational lifespan of buildings to be 30 years. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf (accessed January 2023).

pump), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions would include project-generated vehicle trips to and from the project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions would be generated at off-site utility providers because of increased electricity demand generated by the project. Waste source emissions generated by the proposed project include energy generated by land filling and other methods of disposal related to transporting and managing project-generated waste. In addition, water source emissions associated with the proposed project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

Following guidance from the SCAQMD, GHG emissions were estimated for the operational year of 2025 using CalEEMod. As described previously, consistent with the Fontana Industrial Commerce Sustainability Standards, this analysis assumes that the proposed project would be required to implement a number of sustainable design features that would reduce GHG emissions. As the project is larger than 400,000 square feet, this analysis assumes that the proposed project would install rooftop panels that they would supply 100 percent of the electricity needed to operate all non-refrigerated portions of the building and parking areas. Therefore, the CalEEMod assumes installation of solar panels that would offset 100 percent of the project's electricity demand. Table U shows the calculated GHG emissions for the proposed project with implementation of the requirements set forth by the City of Fontana's Industrial Commerce Centers Sustainability Standards.

As discussed above, a project would have less than significant GHG emissions if it would result in operational-related GHG emissions of less than 3,000 MT CO_2e/yr. As shown in Table U, with implementation of the regulatory requirements set forth in the City of Fontana's Industrial Commerce Centers Sustainability Standards, the proposed project would result in approximately 2,893.3 MT CO_2e/yr, which would be below the SCAQMD threshold of 3,000 MT CO_2e per year. Therefore, operation of the proposed project would not generate significant GHG emissions that would have a significant effect on the environment.

Table U: Project Greenhouse Gas Emissions (MT/yr)

Emissions Source	Operational Emissions				
	CO_2	CH_4	N_2O	CO_2e	Percentage of Total
Existing Uses GHG Emissions					
Area Sources	13.1	<0.1	0.0	13.5	2
Energy Sources	140.0	<0.1	<0.1	140.0	19
Mobile Sources	548.0	<0.1	<0.1	558.0	77
Waste Sources	3.4	0.3	0.0	12.0	2
Water Sources	3.3	<0.1	<0.1	5.0	<1
Total Existing Uses Emissions				**728.5**	
Proposed Project GHG Emissions					
Area Sources	10.0	<0.1	<0.1	10.0	<1
Energy Sources	589.0	<0.1	<0.1	42.3	1
Mobile Sources – Vehicle and Light Duty Trucks	1,060.0	<0.1	0.1	1,078.0	30
Mobile Sources – Heavy Heavy Duty Trucks	1,883.0	0.2	0.3	1,980.0	55
Waste Sources	41.1	4.1	0.0	144.0	4
Water Sources	223.0	3.7	0.1	342.0	10
Stationary Sources	0.9	<0.1	<0.1	0.9	<1
Total Project Operational Emissions				**3,597.2**	**-**
Amortized Construction Emissions				24.6	-
Total Annual Emissions				**3,621.8**	**-**
Total Net Annual Emissions				**2,893.3**	
SCAQMD Threshold				3,000	-
Exceed?				**No**	**-**

Source: Compiled by LSA (January 2023)
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT/yr = metric tons per year
N_2O = nitrous oxide
SCAQMD = South Coast Air Quality Management District

Consistency with Greenhouse Gas Emissions Reduction Plans

An evaluation of the proposed project's consistency with the County's Greenhouse Gas Reduction Plan (GHGRP), the 2022 Scoping Plan, and the 2020–2045 RTP/SCS is provided below.

San Bernardino County Regional Greenhouse Gas Reduction Plan

As discussed above, the City of Fontana is a participant in the San Bernardino County Regional GHGRP, which identifies the County's vision and goals on reducing GHG emissions in the different cities, local government facilities, and communities. Table V below presents the proposed project's compliance with each reduction measure evaluated for the City of Fontana, as identified in the 2021 San Bernardino County Regional GHGRP.

Table V: Project Consistency with the City of Fontana GHG Reduction Measures

Measure	Description	Project Consistency
Building Energy		
Energy-1. Building Energy Efficiency	• **SR Policy 1:** Create a Sustainable Fontana program that promotes green practices in government and in the community. • **SR Policy 2.1:** Incorporate goals into the City Code for resource efficiency in municipal facilities and operations. • **SR Policy 5:** Promote green building through guidelines, awards, and nonfinancial incentives. • **SR Policy 6.1:** Promote energy-efficient development in Fontana. • **SR Policy 6.2:** Meet or exceed state goals for energy-efficient new construction. • **Chapter 10 Policy 7:** Promote renewable energy and distributed energy systems in new development and retrofits of existing development to work towards the highest levels of low carbon energy-efficiency.	***Not Applicable.*** This measure is not applicable as the City would be responsible for implementing this measure.
Energy-2. Light Efficiency	• **SR Policy 1:** Create a Sustainable Fontana program that promotes green practices in government and in the community. • **SR Policy 2.1:** Incorporate goals into the City Code for resource efficiency in municipal facilities and operations. • **SR Policy 2.2:** Continue organizational and operational improvements to maximize energy and resource efficiency and reduce waste.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding energy conservation and green building standards. In addition, the proposed project would include solar energy to comply with the City's requirements for buildings over 400,000 sq ft.
Energy-5. Renewable Energy- New Commercial/Industrial.	• **SR Policy 3:** Promote renewable energy programs for government, Fontana businesses, and Fontana residences. • **Chapter 10 Policy 7:** Promote renewable energy and distributed energy systems in new development and retrofits of existing development to work towards the highest levels of low carbon energy-efficiency.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding energy conservation and green building standards. In addition, the proposed project would include solar energy to comply with the City's requirements for buildings over 400,000 sq ft
Energy-6. Solar Energy for Warehouse Space	• **SR Policy 3:** Promote renewable energy programs for government, Fontana businesses, and Fontana residences.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding energy conservation and green building standards. In addition, the proposed project would include solar energy to comply with the City's requirements for buildings over 400,000 sq ft.

Table V: Project Consistency with the City of Fontana GHG Reduction Measures

Measure	Description	Project Consistency
Energy-7. Solar Installation for Existing Housing	• **SR Policy 3:** Promote renewable energy programs for government, Fontana businesses, and Fontana residences. • **SR Policy 3.1:** Evaluate a Community Choice Aggregation (CCA) Program for Fontana. • **SR Policy 3.2:** Ensure that appropriate zoning and design standard regulations are in place as needed to provide for domestic solar and wind installations. • **Chapter 10 Policy 7:** Promote renewable energy and distributed energy systems in new development and retrofits of existing development to work towards the highest levels of low carbon energy-efficiency.	***Not Applicable.*** This measure is not applicable as the proposed project would not retrofit an existing building.
Energy-8. Renewable Energy- Existing Commercial/Industrial	• **SR Policy 3:** Promote renewable energy programs for government, Fontana businesses, and Fontana residences. • **SR Policy 4:** Continue to collaborate with SBCTA, infrastructure agencies, and utilities on greenhouse gas reduction studies and goals. • **Chapter 10 Policy 7:** Promote renewable energy and distributed energy systems in new development and retrofits of existing development to work towards the highest levels of low carbon energy-efficiency.	***Not Applicable.*** This measure is not applicable as the proposed project would not retrofit an existing building.
On-Road		
On Road-2. Encourage Use of Mass Transit	• **CM Policy 1.4:** Make land use decisions that support walking, bicycling, and public transit use, in alignment with the 2014-2040 Regional Transportation Plan and Sustainable Communities Strategy. • **CM 7.2:** Coordinate with regional agencies and Caltrans to participate in regional efforts to maintain transportation infrastructure in Fontana. • **CM 7.3:** Participate in the efforts of the Southern California Association of Governments (SCAG) to coordinate transportation planning and services that support greenhouse gas reductions.	***Not Applicable.*** The proposed project would include a speculative warehouse building. Due to the nature of the proposed project, mass transit would not be feasible.
On Road-3. Transportation Demand Management and Signal Synchronization	• **CM Policy 1.1:** Provide roadways that serve the needs of Fontana residents and commerce, and that facilitate safe and convenient access to transit, bicycle facilities, and walkways. • **CM Policy 1.2:** Make safety and multimodal accessibility the top priority of Citywide transportation planning. • **CM 3.2:** Promote concentrated development patterns in coordination with transit planning to maximize service efficiency and ridership. • **CM 7.1:** Lead and participate in initiatives to manage regional traffic.	***Not Applicable.*** The proposed project would generate 687 daily trips, including 39 AM peak hour trips and 35 PM peak hour trips. Based on the minimal peak hour trips generated by the proposed project, the project would not be required to implement transportation demand management strategies or signal synchronization.

Table V: Project Consistency with the City of Fontana GHG Reduction Measures

Measure	Description	Project Consistency
	• **CM 7.4:** Participate in the efforts by Caltrans to reduce congestion and improve traffic flow on area freeways.	
On Road-4. Expand Bike Routes	• **CM 2.1:** When constructing or modifying roadways, design the roadway space for use by all users when feasible, including motor vehicles, buses, bicyclists, mobility devices, and pedestrians, as appropriate for the context of the area.	***Not Applicable.*** The proposed project would include a speculative warehouse building. Due to the nature of the proposed project, mass transit would not be feasible.
On Road-5. Community Fleet Electrification	• **CM Action 7.D:** Support the adoption and use of technologies that reduce emissions from passenger and transit vehicles.	***Not Applicable.*** The proposed project would not involve City fleet vehicles.
Solid Waste Management		
Waste-2. Waste Diversion and Reduction	• **SR Policy 2.2:** Continue organizational and operational improvements to maximize energy and resource efficiency and reduce waste. • **Chapter 10 Policy 8.2:** Continue to maximize landfill capacity by supporting recycling innovations, such as organic waste recycling for compost.	***Consistent.*** The proposed project would be consistent with County Solid Waste and State requirements.
Water Conveyance		
Water Conveyance	• **Chapter 10 Policy 1:** Support initiatives to provide a long-term supply of the right water for the right use through working with regional providers and the One Water One Watershed Plan. • **Chapter 10 Policy 2.1:** Encourage use of processed water from the IEUA systems using recycled water for all non-drinking water purposes. • **Chapter 10 Policy 2.2:** Promote laundry-to-landscape greywater systems for single-family housing units.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding water conservation.
Water-1. Voluntary CALGREEN: New Construction	• **SR Policy 7:** Continue to promote and implement best practices to conserve water.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding water conservation.
Water-2. Renovate Existing Buildings	• **SR Policy 7:** Continue to promote and implement best practices to conserve water.	***Not Applicable.*** This measure is not applicable as the proposed project would not retrofit an existing building.
Water-3. Water-Efficient Landscaping Practices	• SR Policy 7: Continue to promote and implement best practices to conserve water. • Chapter 10 Policy 3.1: Support landscaping in public and private spaces with drought resistant plants. • Chapter 10 Policy 3.2: Continue successful City water conservation programs and partnerships.	***Consistent.*** The proposed project would comply with the CALGreen Code, regarding water conservation.

Source: Compiled by LSA (January 2023).
CALGreen Code = California Green Building Standards Code
SBCTA = San Bernardino County Transportation Authority

2022 Scoping Plan

The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan, EO B-30-15, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[65] to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As discussed above, the proposed project would comply with the CALGreen Code, regarding energy conservation and green building standards. In addition, the proposed project

65 CARB. 2017a. *California's 2017 Climate Change Scoping Plan*. November.

would include solar to comply with City requirements for buildings over 400,000 sq ft. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would comply with the CALGreen Code, which includes a variety of different measures, including the reduction of wastewater and water use. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

SCAG's RTP/SCS identifies that land use strategies that focus on new housing and job growth in areas served by high quality transit and other opportunity areas would be consistent with a land use development pattern that supports and complements the proposed transportation network. The core vision in the 2020–2045 RTP/SCS is to better manage the existing transportation system through design management strategies, integrate land use decisions and technological advancements, create complete streets that are safe to all roadway users, preserve the transportation system, and expand transit and foster development in transit oriented communities. The 2020–2045 RTP/SCS contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as forecast development that is generally consistent with regional-level general plan data. The forecasted development pattern, when integrated with the financially constrained transportation investments identified in the 2020–2045 RTP/SCS, would reach the regional target of reducing GHG emissions from autos and light-duty trucks by 19 percent by 2035 (compared to 2005 levels). The 2020–2045 RTP/SCS does not require that local General Plans, Specific Plans, or zoning be consistent with the 2020–2045 RTP/SCS, but provides incentives for consistency for governments and developers.

Implementing SCAG's RTP/SCS will greatly reduce the regional GHG emissions from transportation, helping to achieve statewide emissions reduction targets. The proposed project would not interfere with SCAG's ability to achieve the region's GHG reduction target of 19 percent below 2005 per capita emissions levels by 2035. Furthermore, the proposed project is not regionally significant per *State CEQA Guidelines* Section 15206 and as such, it would not conflict with the SCAG RTP/SCS targets since those targets were established and are applicable on a regional level.

Based on the nature of the proposed project, it is anticipated that implementation of the proposed project would not interfere with SCAG's ability to implement the regional strategies outlined in the RTP/SCS.

CONCLUSIONS

Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed SCAQMD thresholds of significance. Compliance with SCAQMD Rule 403: Fugitive Dust would further reduce construction dust impacts. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also not result in other emissions (such as those leading to odors) affecting a substantial number of people. GHG emissions released during construction and operation of the project are estimated to be lower than significance thresholds and would not be cumulatively considerable. The project would also be consistent with the State's GHG emissions reductions objectives embodied in the 2022 Scoping Plan and the 2020–2045 RTP/ SCS. Therefore, the proposed project would not result in significant air quality or GHG impacts.

APPENDIX A

CALEEMOD OUTPUT SHEETS

Poplar South Distribution Center Project - Vehicles and Light Duty Truck Trips Detailed Report

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Data Field	Value
Project Name	Poplar South Distribution Center Project - Vehicles and Light Duty Truck Trips
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	6.80
Location	34.053016717948225, -117.4606770490008
County	San Bernardino-South Coast
City	Fontana
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5310
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	490	1000sqft	14.5	490,595	62,000	—	—	—
Parking Lot	210	Space	4.58	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
Mit.	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
Mit.	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
Mit.	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
Mit.	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
2025	63.4	24.0	31.3	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,207	0.45	0.52	8,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
2025	2.95	0.56	0.65	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	123	0.01	< 0.005	124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
2025	0.54	0.10	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	20.3	< 0.005	< 0.005	20.6

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
2025	63.4	24.0	31.3	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,207	0.45	0.52	8,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
2025	2.95	0.56	0.65	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	123	0.01	< 0.005	124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
2025	0.54	0.10	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	20.3	< 0.005	< 0.005	20.6

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.5	2.69	47.3	0.07	0.07	2.21	2.28	0.08	0.39	0.47	12,006	47.6	0.87	26,554
Mit.	17.5	2.69	47.3	0.07	0.07	2.21	2.28	0.08	0.39	0.47	8,703	47.4	0.84	23,239
% Reduced	—	—	—	—	—	—	—	—	—	—	28%	< 0.5%	3%	12%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	2.71	21.3	0.06	0.04	2.21	2.25	0.04	0.39	0.43	11,496	47.6	0.87	26,021

Mit.	13.9	2.71	21.3	0.06	0.04	2.21	2.25	0.04	0.39	0.43	8,193	47.4	0.85	22,706
% Reduced	—	—	—	—	—	—	—	—	—	—	29%	< 0.5%	3%	13%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	2.89	36.8	0.06	0.06	2.21	2.27	0.06	0.39	0.46	11,622	47.6	0.88	26,159
Mit.	16.3	2.89	36.8	0.06	0.06	2.21	2.27	0.06	0.39	0.46	8,319	47.4	0.85	22,844
% Reduced	—	—	—	—	—	—	—	—	—	—	28%	< 0.5%	3%	13%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.97	0.53	6.71	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,924	7.88	0.15	4,331
Mit.	2.97	0.53	6.71	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,377	7.84	0.14	3,782
% Reduced	—	—	—	—	—	—	—	—	—	—	28%	< 0.5%	3%	13%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Area	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	17.5	2.69	47.3	0.07	0.07	2.21	2.28	0.08	0.39	0.47	12,006	47.6	0.87	26,554

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Area	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	13.9	2.71	21.3	0.06	0.04	2.21	2.25	0.04	0.39	0.43	11,496	47.6	0.87	26,021
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.08	2.73	22.1	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,402	0.21	0.31	6,512
Area	14.2	0.12	14.6	< 0.005	0.02	—	0.02	0.03	—	0.03	60.1	< 0.005	< 0.005	60.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.52	< 0.005	< 0.005	5.54
Total	16.3	2.89	36.8	0.06	0.06	2.21	2.27	0.06	0.39	0.46	11,622	47.6	0.88	26,159
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078
Area	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	589	0.04	< 0.005	591
Water	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Waste	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Stationary	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

Total	2.97	0.53	6.71	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,924	7.88	0.15	4,331

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Area	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	255	0.02	< 0.005	256
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	17.5	2.69	47.3	0.07	0.07	2.21	2.28	0.08	0.39	0.47	8,703	47.4	0.84	23,239
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Area	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	255	0.02	< 0.005	256
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	13.9	2.71	21.3	0.06	0.04	2.21	2.25	0.04	0.39	0.43	8,193	47.4	0.85	22,706
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	2.08	2.73	22.1	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,402	0.21	0.31	6,512
Area	14.2	0.12	14.6	< 0.005	0.02	—	0.02	0.03	—	0.03	60.1	< 0.005	< 0.005	60.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	255	0.02	< 0.005	256
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.52	< 0.005	< 0.005	5.54
Total	16.3	2.89	36.8	0.06	0.06	2.21	2.27	0.06	0.39	0.46	8,319	47.4	0.85	22,844
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078
Area	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	42.2	< 0.005	< 0.005	42.3
Water	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Waste	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Stationary	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	2.97	0.53	6.71	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,377	7.84	0.14	3,782

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	3.01	3.01	—	0.46	0.46	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.37	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	216	0.01	0.01	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.98	1.67	0.02	0.05	0.64	0.69	0.03	0.18	0.21	2,429	0.27	0.39	2,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.17	0.09	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	133	0.01	0.02	140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.0	< 0.005	< 0.005	23.2

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	3.01	3.01	—	0.46	0.46	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.37	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	216	0.01	0.01	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.98	1.67	0.02	0.05	0.64	0.69	0.03	0.18	0.21	2,429	0.27	0.39	2,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.17	0.09	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	133	0.01	0.02	140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.0	< 0.005	< 0.005	23.2

3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	5,296	0.21	0.04	5,314

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.05	—	0.05	0.04	—	0.04	218	0.01	< 0.005	218
Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	252	0.01	0.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.62	< 0.005	< 0.005	9.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59	< 0.005	< 0.005	1.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.05	—	0.05	0.04	—	0.04	218	0.01	< 0.005	218

Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	252	0.01	0.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.62	< 0.005	< 0.005	9.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59	< 0.005	< 0.005	1.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.06	—	0.06	0.05	—	0.05	271	0.01	< 0.005	272
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	44.9	< 0.005	< 0.005	45.0
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	1.69	0.00	0.00	0.26	0.26	0.00	0.06	0.06	288	0.01	0.01	292
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	6.30	3.52	0.03	0.10	1.35	1.45	0.06	0.37	0.43	5,130	0.57	0.83	5,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	211	0.02	0.03	222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9	< 0.005	0.01	36.7

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.06	—	0.06	0.05	—	0.05	271	0.01	< 0.005	272
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	44.9	< 0.005	< 0.005	45.0
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	1.69	0.00	0.00	0.26	0.26	0.00	0.06	0.06	288	0.01	0.01	292
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	6.30	3.52	0.03	0.10	1.35	1.45	0.06	0.37	0.43	5,130	0.57	0.83	5,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.27	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	211	0.02	0.03	222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9	< 0.005	0.01	36.7

3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	7.57	5.74	0.01	0.28	—	0.28	0.26	—	0.26	962	0.04	0.01	965
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.38	1.05	< 0.005	0.05	—	0.05	0.05	—	0.05	159	0.01	< 0.005	160

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.00	17.4	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,966	0.12	0.10	3,012
Vendor	0.07	2.89	1.55	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,521	0.19	0.38	2,645
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.18	13.2	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,719	0.13	0.10	2,753
Vendor	0.07	3.01	1.57	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,522	0.19	0.38	2,639
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.47	5.55	0.00	0.00	1.08	1.08	0.00	0.25	0.25	1,106	0.05	0.04	1,122
Vendor	0.03	1.22	0.63	0.01	0.01	0.27	0.29	0.01	0.08	0.09	1,012	0.08	0.15	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	183	0.01	0.01	186
Vendor	< 0.005	0.22	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	167	0.01	0.02	175
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	7.57	5.74	0.01	0.28	—	0.28	0.26	—	0.26	962	0.04	0.01	965
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.38	1.05	< 0.005	0.05	—	0.05	0.05	—	0.05	159	0.01	< 0.005	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.00	17.4	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,966	0.12	0.10	3,012
Vendor	0.07	2.89	1.55	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,521	0.19	0.38	2,645
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.18	13.2	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,719	0.13	0.10	2,753

Vendor	0.07	3.01	1.57	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,522	0.19	0.38	2,639
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.47	5.55	0.00	0.00	1.08	1.08	0.00	0.25	0.25	1,106	0.05	0.04	1,122
Vendor	0.03	1.22	0.63	0.01	0.01	0.27	0.29	0.01	0.08	0.09	1,012	0.08	0.15	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	183	0.01	0.01	186
Vendor	< 0.005	0.22	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	167	0.01	0.02	175
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.1	< 0.005	< 0.005	14.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.33	< 0.005	< 0.005	2.34
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	1.00	12.1	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,662	0.12	0.10	2,696
Vendor	0.07	2.88	1.49	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,482	0.19	0.38	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.8	< 0.005	< 0.005	16.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.6	< 0.005	< 0.005	15.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.62	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.41	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.1	< 0.005	< 0.005	14.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.33	< 0.005	< 0.005	2.34
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	1.00	12.1	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,662	0.12	0.10	2,696
Vendor	0.07	2.88	1.49	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,482	0.19	0.38	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.8	< 0.005	< 0.005	16.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.6	< 0.005	< 0.005	15.3

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.62	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.41	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	1,511	0.06	0.01	1,517
Paving	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	41.4	< 0.005	< 0.005	41.6
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.86	< 0.005	< 0.005	6.88
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	194	0.01	0.01	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38	< 0.005	< 0.005	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	1,511	0.06	0.01	1,517
Paving	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	41.4	< 0.005	< 0.005	41.6
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.86	< 0.005	< 0.005	6.88
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	194	0.01	0.01	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38	< 0.005	< 0.005	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	20.6	< 0.005	< 0.005	20.7
Architectural Coatings	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.42	< 0.005	< 0.005	3.43
Architectural Coatings	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.24	2.63	0.00	0.00	0.54	0.54	0.00	0.13	0.13	544	0.03	0.02	551
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	85.3	< 0.005	< 0.005	86.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	14.1	< 0.005	< 0.005	14.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	20.6	< 0.005	< 0.005	20.7
Architectural Coatings	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.42	< 0.005	< 0.005	3.43
Architectural Coatings	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.20	0.24	2.63	0.00	0.00	0.54	0.54	0.00	0.13	0.13	544	0.03	0.02	551
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	85.3	< 0.005	< 0.005	86.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	14.1	< 0.005	< 0.005	14.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.27	< 0.005	< 0.005	6.29
Architectural Coatings	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.04	< 0.005	< 0.005	1.04
Architectural Coatings	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.20	2.42	0.00	0.00	0.54	0.54	0.00	0.13	0.13	532	0.02	0.02	539
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	25.4	< 0.005	< 0.005	25.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.20	< 0.005	< 0.005	4.26

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.27	< 0.005	< 0.005	6.29
Architectural Coatings	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.04	< 0.005	< 0.005	1.04

Architectural Coatings	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.20	2.42	0.00	0.00	0.54	0.54	0.00	0.13	0.13	532	0.02	0.02	539
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	25.4	< 0.005	< 0.005	25.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.20	< 0.005	< 0.005	4.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.21	2.48	25.9	0.07	0.04	2.21	2.25	0.04	0.39	0.43	6,759	0.20	0.30	6,880
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.10	2.68	21.2	0.06	0.04	2.21	2.25	0.04	0.39	0.43	6,336	0.21	0.31	6,434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.38	0.50	4.04	0.01	0.01	0.40	0.41	0.01	0.07	0.08	1,060	0.03	0.05	1,078

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	547	0.03	< 0.005	549
Parking Lot	—	—	—	—	—	—	—	—	—	—	42.2	< 0.005	< 0.005	42.3
Total	—	—	—	—	—	—	—	—	—	—	589	0.04	< 0.005	591

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	42.2	< 0.005	< 0.005	42.3
Total	—	—	—	—	—	—	—	—	—	—	42.2	< 0.005	< 0.005	42.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.50	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Total	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Total	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.50	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Total	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Total	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	4/1/2024	4/26/2024	5.00	20.0	—
Site Preparation	Site Preparation	4/29/2024	5/17/2024	5.00	15.0	—
Grading	Grading	5/20/2024	6/7/2024	5.00	15.0	—
Building Construction	Building Construction	6/10/2024	1/3/2025	5.00	150	—
Paving	Paving	1/6/2025	1/17/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	10/14/2024	1/24/2025	5.00	75.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	34.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	72.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	206	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	80.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	41.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	34.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	72.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	206	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	80.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	41.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	735,893	245,298	11,970

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	60,000	—
Site Preparation	0.00	0.00	22.5	0.00	—
Grading	0.00	8,743	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.58

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	4.58	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	588	588	588	214,620	7,976	7,976	7,976	2,911,158
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	588	588	588	214,620	7,976	7,976	7,976	2,911,158
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	735,893	245,298	11,970

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	2,265,913	532	0.0330	0.0040	0.00

Parking Lot	174,766	532	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	0.00	532	0.0330	0.0040	0.00
Parking Lot	174,766	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	113,312,500	995,666
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	113,312,500	995,666
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	461	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	461	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	0.03	12.0	200	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	24.4	annual days of extreme heat
Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.13	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	95.3
AQ-PM	93.5
AQ-DPM	78.3
Drinking Water	96.1
Lead Risk Housing	42.2
Pesticides	18.1
Toxic Releases	84.6
Traffic	79.6
Effect Indicators	—
CleanUp Sites	82.7
Groundwater	14.3
Haz Waste Facilities/Generators	94.4
Impaired Water Bodies	0.00
Solid Waste	87.1

Sensitive Population	—
Asthma	44.4
Cardio-vascular	55.1
Low Birth Weights	20.3
Socioeconomic Factor Indicators	—
Education	73.4
Housing	26.7
Linguistic	34.6
Poverty	51.4
Unemployment	51.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	46.27229565
Employed	32.144232
Median HI	62.51764404
Education	—
Bachelor's or higher	30.92518927
High school enrollment	27.47337354
Preschool enrollment	9.149236494
Transportation	—
Auto Access	75.69613756
Active commuting	25.30476068
Social	—
2-parent households	83.85730784

Voting	30.59155653
Neighborhood	—
Alcohol availability	69.20313102
Park access	26.03618632
Retail density	30.7583729
Supermarket access	43.14128064
Tree canopy	6.390350314
Housing	—
Homeownership	72.5009624
Housing habitability	80.9829334
Low-inc homeowner severe housing cost burden	33.8380598
Low-inc renter severe housing cost burden	97.78005903
Uncrowded housing	24.76581548
Health Outcomes	—
Insured adults	19.91530861
Arthritis	67.1
Asthma ER Admissions	64.4
High Blood Pressure	71.3
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	40.6
Life Expectancy at Birth	53.2
Cognitively Disabled	21.0
Physically Disabled	18.0
Heart Attack ER Admissions	49.4

Mental Health Not Good	35.7
Chronic Kidney Disease	55.3
Obesity	33.9
Pedestrian Injuries	62.8
Physical Health Not Good	37.9
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	36.9
Current Smoker	40.0
No Leisure Time for Physical Activity	38.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	32.5
Elderly	76.6
English Speaking	56.0
Foreign-born	61.6
Outdoor Workers	45.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	67.8
Traffic Density	81.5
Traffic Access	23.0
Other Indices	—
Hardship	66.3
Other Decision Support	—
2016 Voting	50.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	71.0
Healthy Places Index Score for Project Location (b)	40.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project would construct a 490,595 sq ft warehouse with 62,000 sq ft of landscape on a 19.08 acre site
Construction: Construction Phases	Construction will start April 2024 and last approximately 10 months, ending in January 2025. Overlap of building construction and architectural coating phases.
Construction: Off-Road Equipment	Default equipment with Tier 4 Final engine
Operations: Vehicle Data	Vehicle trips only. Based on a total of 603 ADT
Operations: Fleet Mix	Vehicle trips only. Based on a total of 603 ADT with 32 medium truck trips
Operations: Energy Use	Project would not utilize natural gas
Operations: Emergency Generators and Fire Pumps	project would include a 200 hp diesel fire pump

Poplar South Distribution Center Project - Heavy Heavy Truck Trips Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Poplar South Distribution Center Project - Heavy Heavy Truck Trips
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	6.80
Location	34.053016717948225, -117.4606770490008
County	San Bernardino-South Coast
City	Fontana
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5310
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	490	1000sqft	14.5	490,595	62,000	—	—	—
Parking Lot	210	Space	4.58	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
Mit.	1.77	55.2	40.6	0.09	0.57	7.89	8.15	0.49	3.99	4.23	12,016	0.85	0.89	12,314
% Reduced	—	—	—	—	61%	—	10%	62%	—	16%	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
Mit.	63.4	24.4	32.6	0.04	0.24	3.92	4.16	0.22	0.95	1.17	8,316	0.45	0.52	8,483
% Reduced	—	—	—	—	70%	—	12%	70%	—	31%	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
Mit.	10.4	14.9	16.5	0.03	0.14	2.18	2.32	0.12	0.62	0.75	4,238	0.24	0.26	4,326
% Reduced	—	—	—	—	70%	—	12%	70%	—	28%	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
Mit.	1.89	2.73	3.01	< 0.005	0.02	0.40	0.42	0.02	0.11	0.14	702	0.04	0.04	716
% Reduced	—	—	—	—	70%	—	12%	70%	—	28%	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.77	55.2	40.6	0.09	1.46	7.89	9.01	1.30	3.99	5.01	12,016	0.85	0.89	12,314
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	63.4	24.4	32.6	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,316	0.45	0.52	8,483
2025	63.4	24.0	31.3	0.04	0.79	3.92	4.71	0.74	0.95	1.69	8,207	0.45	0.52	8,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.4	14.9	16.5	0.03	0.45	2.18	2.63	0.42	0.62	1.04	4,238	0.24	0.26	4,326
2025	2.95	0.56	0.65	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	123	0.01	< 0.005	124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.89	2.73	3.01	< 0.005	0.08	0.40	0.48	0.08	0.11	0.19	702	0.04	0.04	716
2025	0.54	0.10	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	20.3	< 0.005	< 0.005	20.6

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.77	55.2	40.6	0.09	0.57	7.89	8.15	0.49	3.99	4.23	12,016	0.85	0.89	12,314
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	63.4	24.4	32.6	0.04	0.24	3.92	4.16	0.22	0.95	1.17	8,316	0.45	0.52	8,483
2025	63.4	24.0	31.3	0.04	0.24	3.92	4.16	0.22	0.95	1.17	8,207	0.45	0.52	8,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.4	14.9	16.5	0.03	0.14	2.18	2.32	0.12	0.62	0.75	4,238	0.24	0.26	4,326
2025	2.95	0.56	0.65	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	123	0.01	< 0.005	124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.89	2.73	3.01	< 0.005	0.02	0.40	0.42	0.02	0.11	0.14	702	0.04	0.04	716
2025	0.54	0.10	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	20.3	< 0.005	< 0.005	20.6

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.4	12.9	28.2	0.10	0.21	1.65	1.86	0.22	0.40	0.61	16,621	48.5	2.39	31,645
Mit.	15.4	12.9	28.2	0.10	0.21	1.65	1.86	0.22	0.40	0.61	16,621	48.5	2.39	31,645
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.9	13.3	6.86	0.10	0.19	1.65	1.83	0.18	0.40	0.57	16,535	48.5	2.39	31,535

Mit.	11.9	13.3	6.86	0.10	0.19	1.65	1.83	0.18	0.40	0.57	16,535	48.5	2.39	31,535
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.3	13.5	21.5	0.10	0.21	1.65	1.85	0.20	0.40	0.60	16,595	48.5	2.39	31,605
Mit.	14.3	13.5	21.5	0.10	0.21	1.65	1.85	0.20	0.40	0.60	16,595	48.5	2.39	31,605
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.62	2.47	3.92	0.02	0.04	0.30	0.34	0.04	0.07	0.11	2,747	8.03	0.40	5,233
Mit.	2.62	2.47	3.92	0.02	0.04	0.30	0.34	0.04	0.07	0.11	2,747	8.03	0.40	5,233
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Area	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	15.4	12.9	28.2	0.10	0.21	1.65	1.86	0.22	0.40	0.61	16,621	48.5	2.39	31,645

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Area	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	11.9	13.3	6.86	0.10	0.19	1.65	1.83	0.18	0.40	0.57	16,535	48.5	2.39	31,535
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	13.4	6.82	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,375	1.14	1.83	11,958
Area	14.2	0.12	14.6	< 0.005	0.02	—	0.02	0.03	—	0.03	60.1	< 0.005	< 0.005	60.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.52	< 0.005	< 0.005	5.54
Total	14.3	13.5	21.5	0.10	0.21	1.65	1.85	0.20	0.40	0.60	16,595	48.5	2.39	31,605
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980
Area	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	589	0.04	< 0.005	591
Water	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Waste	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Stationary	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

Total	2.62	2.47	3.92	0.02	0.04	0.30	0.34	0.04	0.07	0.11	2,747	8.03	0.40	5,233

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Area	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	15.4	12.9	28.2	0.10	0.21	1.65	1.86	0.22	0.40	0.61	16,621	48.5	2.39	31,645
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Area	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	11.9	13.3	6.86	0.10	0.19	1.65	1.83	0.18	0.40	0.57	16,535	48.5	2.39	31,535
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.16	13.4	6.82	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,375	1.14	1.83	11,958
Area	14.2	0.12	14.6	< 0.005	0.02	—	0.02	0.03	—	0.03	60.1	< 0.005	< 0.005	60.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	3,557	0.22	0.03	3,571
Water	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Waste	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Stationary	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.52	< 0.005	< 0.005	5.54
Total	14.3	13.5	21.5	0.10	0.21	1.65	1.85	0.20	0.40	0.60	16,595	48.5	2.39	31,605
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980
Area	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	589	0.04	< 0.005	591
Water	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Waste	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Stationary	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	2.62	2.47	3.92	0.02	0.04	0.30	0.34	0.04	0.07	0.11	2,747	8.03	0.40	5,233

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	3.01	3.01	—	0.46	0.46	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.37	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	216	0.01	0.01	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.98	1.67	0.02	0.05	0.64	0.69	0.03	0.18	0.21	2,429	0.27	0.39	2,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.17	0.09	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	133	0.01	0.02	140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.0	< 0.005	< 0.005	23.2

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.12	—	0.12	0.11	—	0.11	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	3.01	3.01	—	0.46	0.46	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.37	1.00	< 0.005	0.01	—	0.01	0.01	—	0.01	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	216	0.01	0.01	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	2.98	1.67	0.02	0.05	0.64	0.69	0.03	0.18	0.21	2,429	0.27	0.39	2,557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.17	0.09	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	133	0.01	0.02	140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.0	< 0.005	< 0.005	23.2

3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	5,296	0.21	0.04	5,314

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.05	—	0.05	0.04	—	0.04	218	0.01	< 0.005	218
Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	252	0.01	0.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.62	< 0.005	< 0.005	9.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59	< 0.005	< 0.005	1.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	0.26	—	0.26	0.24	—	0.24	5,296	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.01	—	0.01	0.01	—	0.01	218	0.01	< 0.005	218

Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	1.48	0.00	0.00	0.23	0.23	0.00	0.05	0.05	252	0.01	0.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.62	< 0.005	< 0.005	9.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.59	< 0.005	< 0.005	1.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.06	—	0.06	0.05	—	0.05	271	0.01	< 0.005	272
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	44.9	< 0.005	< 0.005	45.0
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	1.69	0.00	0.00	0.26	0.26	0.00	0.06	0.06	288	0.01	0.01	292
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	6.30	3.52	0.03	0.10	1.35	1.45	0.06	0.37	0.43	5,130	0.57	0.83	5,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	211	0.02	0.03	222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9	< 0.005	0.01	36.7

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	0.48	—	0.48	0.43	—	0.43	6,598	0.27	0.05	6,621
Dust From Material Movement	—	—	—	—	—	3.60	3.60	—	1.43	1.43	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.02	—	0.02	0.02	—	0.02	271	0.01	< 0.005	272
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	44.9	< 0.005	< 0.005	45.0
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	1.69	0.00	0.00	0.26	0.26	0.00	0.06	0.06	288	0.01	0.01	292
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	6.30	3.52	0.03	0.10	1.35	1.45	0.06	0.37	0.43	5,130	0.57	0.83	5,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.0	< 0.005	< 0.005	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.27	0.15	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	211	0.02	0.03	222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.82	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	34.9	< 0.005	0.01	36.7

3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	7.57	5.74	0.01	0.28	—	0.28	0.26	—	0.26	962	0.04	0.01	965
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.38	1.05	< 0.005	0.05	—	0.05	0.05	—	0.05	159	0.01	< 0.005	160

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.00	17.4	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,966	0.12	0.10	3,012
Vendor	0.07	2.89	1.55	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,521	0.19	0.38	2,645
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.18	13.2	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,719	0.13	0.10	2,753
Vendor	0.07	3.01	1.57	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,522	0.19	0.38	2,639
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.47	5.55	0.00	0.00	1.08	1.08	0.00	0.25	0.25	1,106	0.05	0.04	1,122
Vendor	0.03	1.22	0.63	0.01	0.01	0.27	0.29	0.01	0.08	0.09	1,012	0.08	0.15	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	183	0.01	0.01	186
Vendor	< 0.005	0.22	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	167	0.01	0.02	175
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.19	—	0.19	0.18	—	0.18	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.19	—	0.19	0.18	—	0.18	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	7.57	5.74	0.01	0.08	—	0.08	0.07	—	0.07	962	0.04	0.01	965
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.38	1.05	< 0.005	0.01	—	0.01	0.01	—	0.01	159	0.01	< 0.005	160
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.00	17.4	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,966	0.12	0.10	3,012
Vendor	0.07	2.89	1.55	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,521	0.19	0.38	2,645
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.18	13.2	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,719	0.13	0.10	2,753

Vendor	0.07	3.01	1.57	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,522	0.19	0.38	2,639
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.47	5.55	0.00	0.00	1.08	1.08	0.00	0.25	0.25	1,106	0.05	0.04	1,122
Vendor	0.03	1.22	0.63	0.01	0.01	0.27	0.29	0.01	0.08	0.09	1,012	0.08	0.15	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.01	0.00	0.00	0.20	0.20	0.00	0.05	0.05	183	0.01	0.01	186
Vendor	< 0.005	0.22	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	167	0.01	0.02	175
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.1	< 0.005	< 0.005	14.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.33	< 0.005	< 0.005	2.34
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	1.00	12.1	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,662	0.12	0.10	2,696
Vendor	0.07	2.88	1.49	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,482	0.19	0.38	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.8	< 0.005	< 0.005	16.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.6	< 0.005	< 0.005	15.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.62	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.41	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.19	—	0.19	0.18	—	0.18	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.1	< 0.005	< 0.005	14.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.33	< 0.005	< 0.005	2.34
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	1.00	12.1	0.00	0.00	2.69	2.69	0.00	0.63	0.63	2,662	0.12	0.10	2,696
Vendor	0.07	2.88	1.49	0.02	0.04	0.69	0.72	0.04	0.19	0.23	2,482	0.19	0.38	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.8	< 0.005	< 0.005	16.1
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.6	< 0.005	< 0.005	15.3

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.62	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.41	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	1,511	0.06	0.01	1,517
Paving	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	41.4	< 0.005	< 0.005	41.6
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.86	< 0.005	< 0.005	6.88
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	194	0.01	0.01	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38	< 0.005	< 0.005	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.09	—	0.09	0.08	—	0.08	1,511	0.06	0.01	1,517
Paving	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.36	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	41.4	< 0.005	< 0.005	41.6
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.07	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.86	< 0.005	< 0.005	6.88
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	194	0.01	0.01	196
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.38	< 0.005	< 0.005	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	20.6	< 0.005	< 0.005	20.7
Architectural Coatings	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.42	< 0.005	< 0.005	3.43
Architectural Coatings	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.24	2.63	0.00	0.00	0.54	0.54	0.00	0.13	0.13	544	0.03	0.02	551
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	85.3	< 0.005	< 0.005	86.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	14.1	< 0.005	< 0.005	14.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.6	< 0.005	< 0.005	20.7
Architectural Coatings	9.49	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.42	< 0.005	< 0.005	3.43
Architectural Coatings	1.73	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.20	0.24	2.63	0.00	0.00	0.54	0.54	0.00	0.13	0.13	544	0.03	0.02	551
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	85.3	< 0.005	< 0.005	86.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	14.1	< 0.005	< 0.005	14.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.27	< 0.005	< 0.005	6.29
Architectural Coatings	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.04	< 0.005	< 0.005	1.04
Architectural Coatings	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.20	2.42	0.00	0.00	0.54	0.54	0.00	0.13	0.13	532	0.02	0.02	539
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	25.4	< 0.005	< 0.005	25.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.20	< 0.005	< 0.005	4.26

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	134	0.01	< 0.005	134
Architectural Coatings	61.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.27	< 0.005	< 0.005	6.29
Architectural Coatings	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.04	< 0.005	< 0.005	1.04

Architectural Coatings	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.20	2.42	0.00	0.00	0.54	0.54	0.00	0.13	0.13	532	0.02	0.02	539
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	25.4	< 0.005	< 0.005	25.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	4.20	< 0.005	< 0.005	4.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	12.7	6.81	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,374	1.14	1.83	11,971
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.15	13.2	6.83	0.10	0.18	1.65	1.83	0.18	0.40	0.57	11,376	1.14	1.83	11,949
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	2.44	1.24	0.02	0.03	0.30	0.33	0.03	0.07	0.10	1,883	0.19	0.30	1,980

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	547	0.03	< 0.005	549
Parking Lot	—	—	—	—	—	—	—	—	—	—	42.2	< 0.005	< 0.005	42.3
Total	—	—	—	—	—	—	—	—	—	—	589	0.04	< 0.005	591

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3,303	0.20	0.02	3,315
Parking Lot	—	—	—	—	—	—	—	—	—	—	255	0.02	< 0.005	256
Total	—	—	—	—	—	—	—	—	—	—	3,557	0.22	0.03	3,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	547	0.03	< 0.005	549
Parking Lot	—	—	—	—	—	—	—	—	—	—	42.2	< 0.005	< 0.005	42.3
Total	—	—	—	—	—	—	—	—	—	—	589	0.04	< 0.005	591

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.50	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Total	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Total	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.50	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Total	15.3	0.18	21.3	< 0.005	0.03	—	0.03	0.04	—	0.04	87.7	< 0.005	< 0.005	88.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	10.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.26	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.92	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.44	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99
Total	2.59	0.02	2.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.95	< 0.005	< 0.005	9.99

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,349	22.3	0.54	2,068
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	223	3.70	0.09	342

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	248	24.8	0.00	868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	41.1	4.11	0.00	144

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	13,074
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,165

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05

Total	0.01	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.04	< 0.005	< 0.005	5.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92
Total	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.91	< 0.005	< 0.005	0.92

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	4/1/2024	4/26/2024	5.00	20.0	—
Site Preparation	Site Preparation	4/29/2024	5/17/2024	5.00	15.0	—
Grading	Grading	5/20/2024	6/7/2024	5.00	15.0	—
Building Construction	Building Construction	6/10/2024	1/3/2025	5.00	150	—
Paving	Paving	1/6/2025	1/17/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	10/14/2024	1/24/2025	5.00	75.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	34.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	72.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	206	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	80.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	41.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	34.5	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	72.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	206	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	80.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	41.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	735,893	245,298	11,970

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	60,000	—
Site Preparation	0.00	0.00	22.5	0.00	—

Grading	0.00	8,743	45.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.58

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	4.58	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	83.3	83.3	83.3	30,405	3,332	3,332	3,332	1,216,180
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	83.3	83.3	83.3	30,405	3,332	3,332	3,332	1,216,180
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	735,893	245,298	11,970

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	2,265,913	532	0.0330	0.0040	0.00
Parking Lot	174,766	532	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	2,265,913	532	0.0330	0.0040	0.00
Parking Lot	174,766	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	113,312,500	995,666
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	113,312,500	995,666
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	461	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	461	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.03	12.0	200	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	24.4	annual days of extreme heat
Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	6.13	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	95.3
AQ-PM	93.5
AQ-DPM	78.3
Drinking Water	96.1
Lead Risk Housing	42.2
Pesticides	18.1
Toxic Releases	84.6
Traffic	79.6

Effect Indicators	—
CleanUp Sites	82.7
Groundwater	14.3
Haz Waste Facilities/Generators	94.4
Impaired Water Bodies	0.00
Solid Waste	87.1
Sensitive Population	—
Asthma	44.4
Cardio-vascular	55.1
Low Birth Weights	20.3
Socioeconomic Factor Indicators	—
Education	73.4
Housing	26.7
Linguistic	34.6
Poverty	51.4
Unemployment	51.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	46.27229565
Employed	32.144232
Median HI	62.51764404
Education	—
Bachelor's or higher	30.92518927
High school enrollment	27.47337354

Preschool enrollment	9.149236494
Transportation	—
Auto Access	75.69613756
Active commuting	25.30476068
Social	—
2-parent households	83.85730784
Voting	30.59155653
Neighborhood	—
Alcohol availability	69.20313102
Park access	26.03618632
Retail density	30.7583729
Supermarket access	43.14128064
Tree canopy	6.390350314
Housing	—
Homeownership	72.5009624
Housing habitability	80.9829334
Low-inc homeowner severe housing cost burden	33.8380598
Low-inc renter severe housing cost burden	97.78005903
Uncrowded housing	24.76581548
Health Outcomes	—
Insured adults	19.91530861
Arthritis	67.1
Asthma ER Admissions	64.4
High Blood Pressure	71.3
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	66.7

Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	40.6
Life Expectancy at Birth	53.2
Cognitively Disabled	21.0
Physically Disabled	18.0
Heart Attack ER Admissions	49.4
Mental Health Not Good	35.7
Chronic Kidney Disease	55.3
Obesity	33.9
Pedestrian Injuries	62.8
Physical Health Not Good	37.9
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	36.9
Current Smoker	40.0
No Leisure Time for Physical Activity	38.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	32.5
Elderly	76.6
English Speaking	56.0
Foreign-born	61.6
Outdoor Workers	45.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	67.8
Traffic Density	81.5

Traffic Access	23.0
Other Indices	—
Hardship	66.3
Other Decision Support	—
2016 Voting	50.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	71.0
Healthy Places Index Score for Project Location (b)	40.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project would construct a 490,595 sq ft warehouse with 62,000 sq ft of landscape on a 19.08 acre site

Construction: Construction Phases	Construction will start April 2024 and last approximately 10 months, ending in January 2025. Overlap of building construction and architectural coating phases.
Construction: Off-Road Equipment	Default equipment with Tier 2 engine
Operations: Vehicle Data	Heavy heavy truck trips only. Based on 82 trips with a 40 mile trip length.
Operations: Fleet Mix	Heavy heavy truck trips only
Operations: Energy Use	Project would not utilize natural gas

Poplar South Distribution Center Project - Existing Uses Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Poplar South Distribution Center Project - Existing Uses
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	6.80
Location	34.053016717948225, -117.4606770490008
County	San Bernardino-South Coast
City	Fontana
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5310
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	40.0	Dwelling Unit	13.0	78,000	0.00	0.00	132	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.2	2.85	38.5	0.09	2.91	1.10	4.00	2.85	0.20	3.05	5,478	3.76	0.19	5,644
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	2.96	33.6	0.09	2.91	1.10	4.00	2.85	0.20	3.05	5,250	3.77	0.19	5,402
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.28	2.23	16.7	0.04	0.25	1.10	1.34	0.24	0.20	0.44	4,273	2.72	0.18	4,402
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.78	0.41	3.05	0.01	0.04	0.20	0.25	0.04	0.04	0.08	707	0.45	0.03	729

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.75	1.68	15.7	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,497	0.17	0.16	3,564

Area	12.5	0.85	22.6	0.05	2.86	—	2.86	2.80	—	2.80	1,097	1.12	0.02	1,129
Energy	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	845	0.06	< 0.005	848
Water	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Waste	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Total	14.2	2.85	38.5	0.09	2.91	1.10	4.00	2.85	0.20	3.05	5,478	3.76	0.19	5,644
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.61	1.81	13.1	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,274	0.18	0.17	3,329
Area	12.3	0.83	20.3	0.05	2.86	—	2.86	2.80	—	2.80	1,091	1.12	0.01	1,123
Energy	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	845	0.06	< 0.005	848
Water	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Waste	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Total	13.9	2.96	33.6	0.09	2.91	1.10	4.00	2.85	0.20	3.05	5,250	3.77	0.19	5,402
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.60	1.84	13.6	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,309	0.18	0.17	3,370
Area	2.66	0.07	2.94	< 0.005	0.20	—	0.20	0.19	—	0.19	78.9	0.08	< 0.005	81.4
Energy	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	845	0.06	< 0.005	848
Water	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Waste	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Total	4.28	2.23	16.7	0.04	0.25	1.10	1.34	0.24	0.20	0.44	4,273	2.72	0.18	4,402
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.34	2.49	0.01	< 0.005	0.20	0.20	< 0.005	0.04	0.04	548	0.03	0.03	558
Area	0.49	0.01	0.54	< 0.005	0.04	—	0.04	0.04	—	0.04	13.1	0.01	< 0.005	13.5
Energy	< 0.005	0.06	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	140	0.01	< 0.005	140

Water	—	—	—	—	—	—	—	—	—	—	3.27	0.05	< 0.005	5.02
Waste	—	—	—	—	—	—	—	—	—	—	3.44	0.34	0.00	12.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09
Total	0.78	0.41	3.05	0.01	0.04	0.20	0.25	0.04	0.04	0.08	707	0.45	0.03	729

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.75	1.68	15.7	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,497	0.17	0.16	3,564
Total	1.75	1.68	15.7	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,497	0.17	0.16	3,564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.61	1.81	13.1	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,274	0.18	0.17	3,329
Total	1.61	1.81	13.1	0.03	0.02	1.10	1.12	0.02	0.20	0.22	3,274	0.18	0.17	3,329
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.29	0.34	2.49	0.01	< 0.005	0.20	0.20	< 0.005	0.04	0.04	548	0.03	0.03	558
Total	0.29	0.34	2.49	0.01	< 0.005	0.20	0.20	< 0.005	0.04	0.04	548	0.03	0.03	558

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	444	0.03	< 0.005	445
Total	—	—	—	—	—	—	—	—	—	—	444	0.03	< 0.005	445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	444	0.03	< 0.005	445
Total	—	—	—	—	—	—	—	—	—	—	444	0.03	< 0.005	445
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	73.4	< 0.005	< 0.005	73.7
Total	—	—	—	—	—	—	—	—	—	—	73.4	< 0.005	< 0.005	73.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	401	0.04	< 0.005	402
Total	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	401	0.04	< 0.005	402
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	401	0.04	< 0.005	402
Total	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	401	0.04	< 0.005	402
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	< 0.005	0.06	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.4	0.01	< 0.005	66.6
Total	< 0.005	0.06	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.4	0.01	< 0.005	66.6

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.4	0.83	20.3	0.05	2.86	—	2.86	2.80	—	2.80	1,091	1.12	0.01	1,123
Consumer Products	1.67	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.02	2.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.07	< 0.005	< 0.005	6.54

Total	12.5	0.85	22.6	0.05	2.86	—	2.86	2.80	—	2.80	1,097	1.12	0.02	1,129
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	10.4	0.83	20.3	0.05	2.86	—	2.86	2.80	—	2.80	1,091	1.12	0.01	1,123
Consumer Products	1.67	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	12.3	0.83	20.3	0.05	2.86	—	2.86	2.80	—	2.80	1,091	1.12	0.01	1,123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.13	0.01	0.25	< 0.005	0.04	—	0.04	0.04	—	0.04	12.4	0.01	< 0.005	12.7
Consumer Products	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	< 0.005	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.69	< 0.005	< 0.005	0.74
Total	0.49	0.01	0.54	< 0.005	0.04	—	0.04	0.04	—	0.04	13.1	0.01	< 0.005	13.5

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Total	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Total	—	—	—	—	—	—	—	—	—	—	19.7	0.33	0.01	30.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3.27	0.05	< 0.005	5.02
Total	—	—	—	—	—	—	—	—	—	—	3.27	0.05	< 0.005	5.02

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Total	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Total	—	—	—	—	—	—	—	—	—	—	20.8	2.08	0.00	72.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3.44	0.34	0.00	12.0
Total	—	—	—	—	—	—	—	—	—	—	3.44	0.34	0.00	12.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.56
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	387	387	387	141,182	3,929	3,929	3,929	1,434,088
—	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	2
Gas Fireplaces	34
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	4
Conventional Wood Stoves	0
Catalytic Wood Stoves	2
Non-Catalytic Wood Stoves	2
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
157950	52,650	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	304,385	532	0.0330	0.0040	1,251,589

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	1,667,247	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Single Family Housing	11.7	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	24.4	annual days of extreme heat
Extreme Precipitation	3.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	6.13	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	95.3
AQ-PM	93.5
AQ-DPM	78.3
Drinking Water	96.1
Lead Risk Housing	42.2
Pesticides	18.1
Toxic Releases	84.6
Traffic	79.6

Effect Indicators	—
CleanUp Sites	82.7
Groundwater	14.3
Haz Waste Facilities/Generators	94.4
Impaired Water Bodies	0.00
Solid Waste	87.1
Sensitive Population	—
Asthma	44.4
Cardio-vascular	55.1
Low Birth Weights	20.3
Socioeconomic Factor Indicators	—
Education	73.4
Housing	26.7
Linguistic	34.6
Poverty	51.4
Unemployment	51.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	46.27229565
Employed	32.144232
Median HI	62.51764404
Education	—
Bachelor's or higher	30.92518927
High school enrollment	27.47337354

Preschool enrollment	9.149236494
Transportation	—
Auto Access	75.69613756
Active commuting	25.30476068
Social	—
2-parent households	83.85730784
Voting	30.59155653
Neighborhood	—
Alcohol availability	69.20313102
Park access	26.03618632
Retail density	30.7583729
Supermarket access	43.14128064
Tree canopy	6.390350314
Housing	—
Homeownership	72.5009624
Housing habitability	80.9829334
Low-inc homeowner severe housing cost burden	33.8380598
Low-inc renter severe housing cost burden	97.78005903
Uncrowded housing	24.76581548
Health Outcomes	—
Insured adults	19.91530861
Arthritis	67.1
Asthma ER Admissions	64.4
High Blood Pressure	71.3
Cancer (excluding skin)	74.5
Asthma	37.3
Coronary Heart Disease	66.7

Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	40.6
Life Expectancy at Birth	53.2
Cognitively Disabled	21.0
Physically Disabled	18.0
Heart Attack ER Admissions	49.4
Mental Health Not Good	35.7
Chronic Kidney Disease	55.3
Obesity	33.9
Pedestrian Injuries	62.8
Physical Health Not Good	37.9
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	36.9
Current Smoker	40.0
No Leisure Time for Physical Activity	38.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	32.5
Elderly	76.6
English Speaking	56.0
Foreign-born	61.6
Outdoor Workers	45.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	67.8
Traffic Density	81.5

Traffic Access	23.0
Other Indices	—
Hardship	66.3
Other Decision Support	—
2016 Voting	50.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	71.0
Healthy Places Index Score for Project Location (b)	40.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

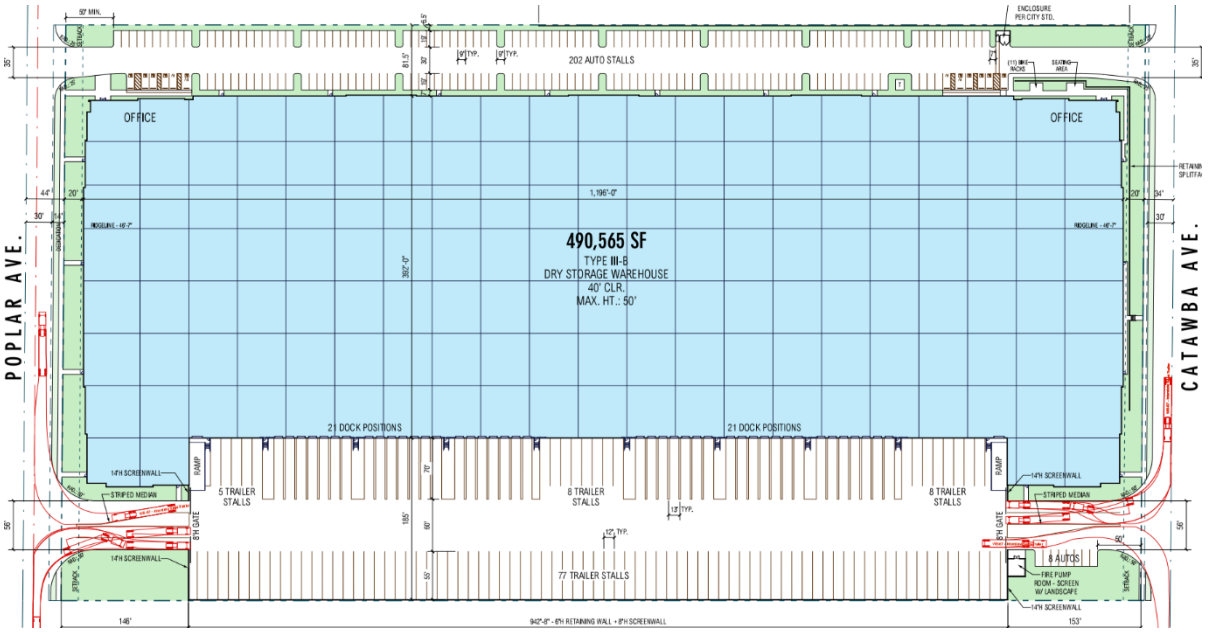
Screen	Justification
Land Use	Project site is developed with 40 residential units
Construction: Construction Phases	Operational run only

Construction: Off-Road Equipment	Default equipment with Tier 2 engine
Operations: Vehicle Data	Based on a trip generation of 387 ADT
Operations: Fleet Mix	Heavy heavy truck trips only
Operations: Energy Use	Default values

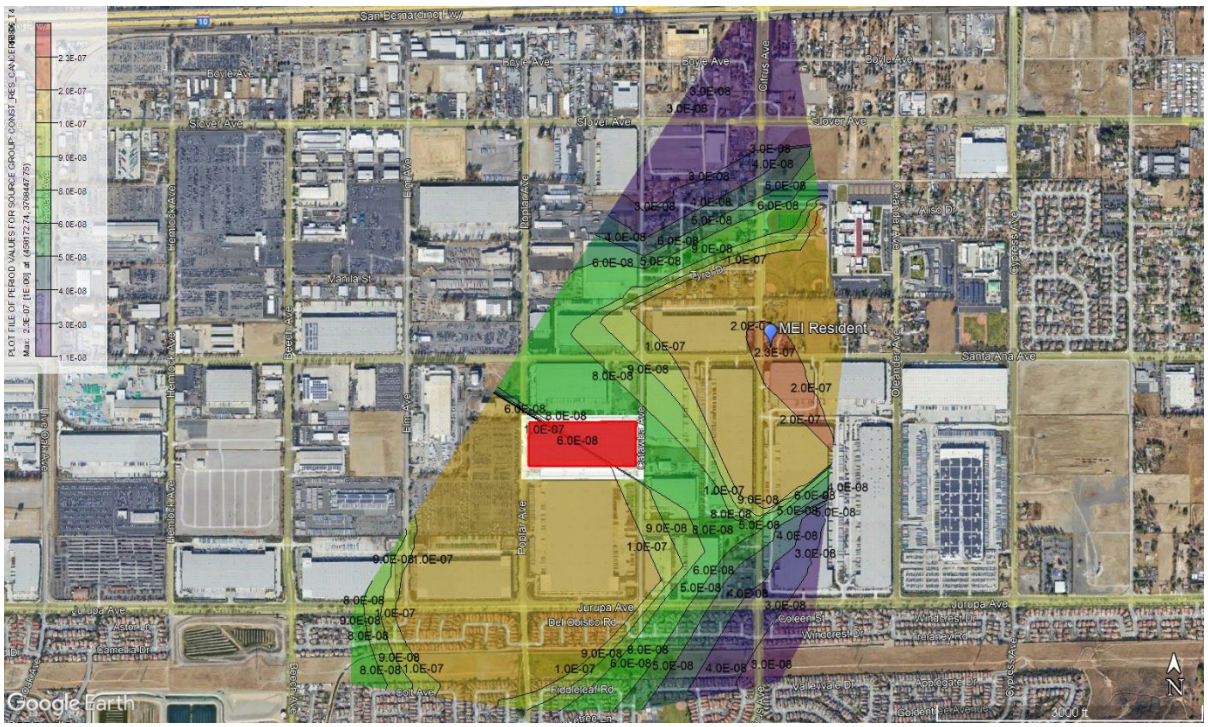
APPENDIX B

HRA MODEL SNAPSHOTS AND OUTPUTS

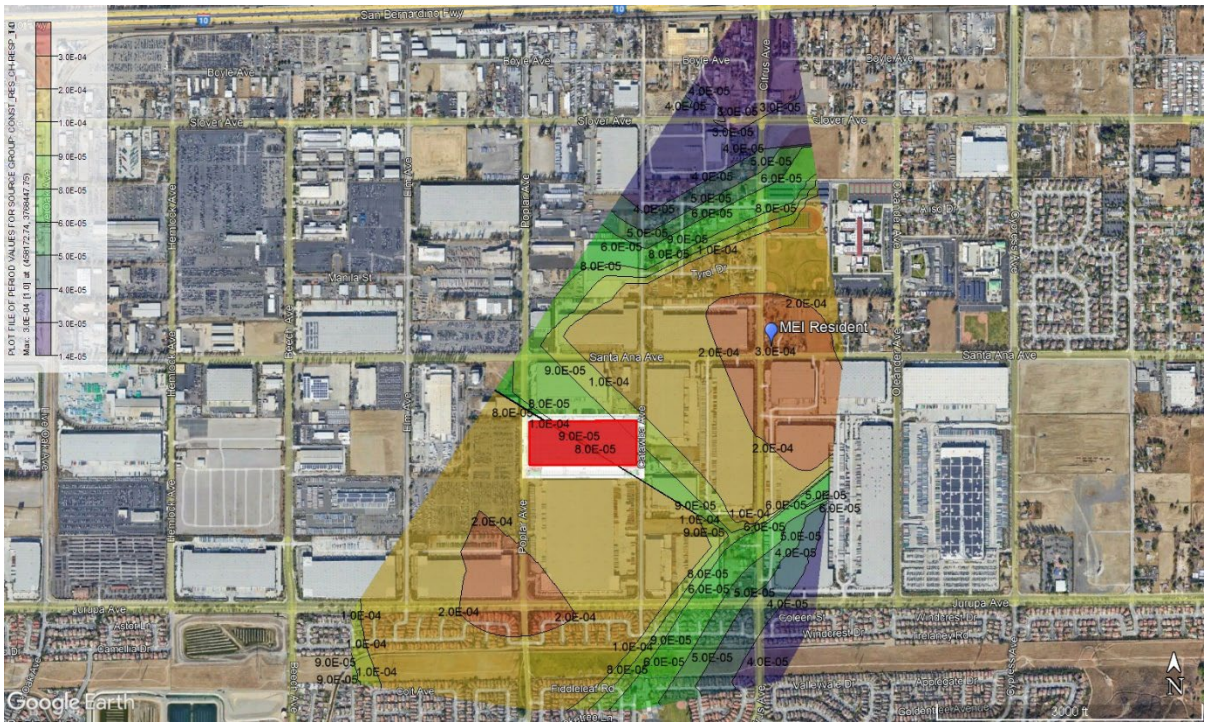
Project Layout



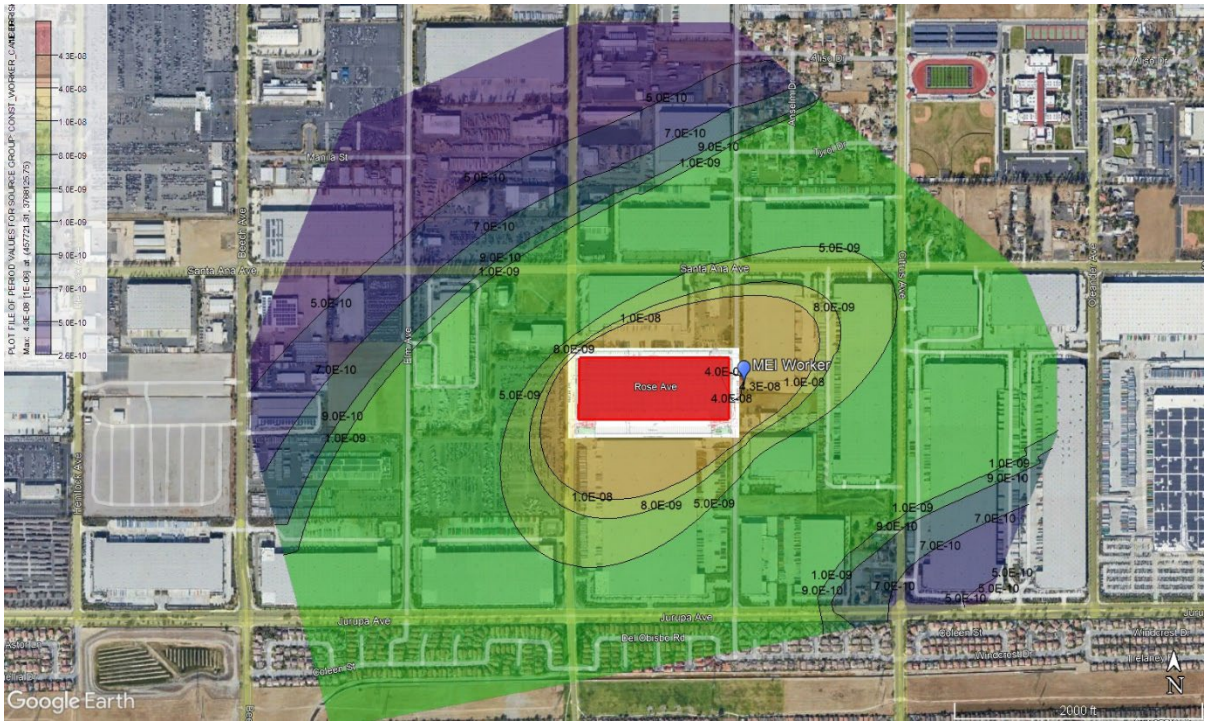
Construction Cancer Risk – Sensitive Receptor



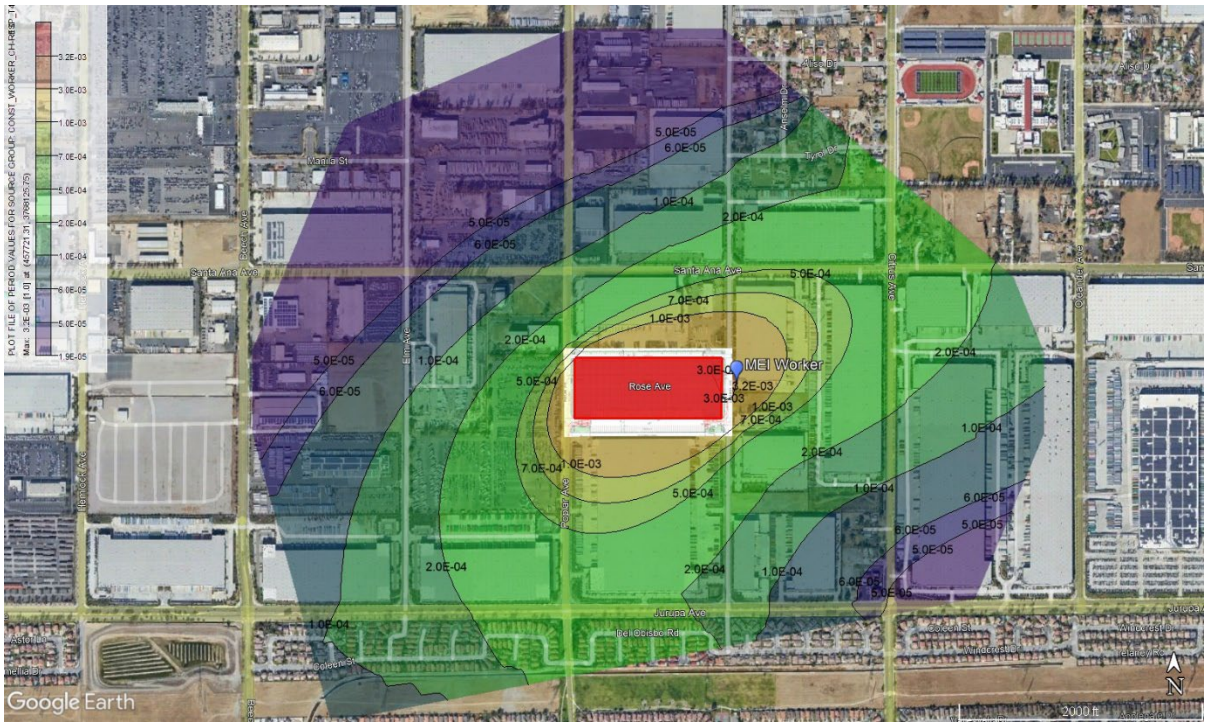
Construction Chronic Hazard Index – Sensitive Receptor



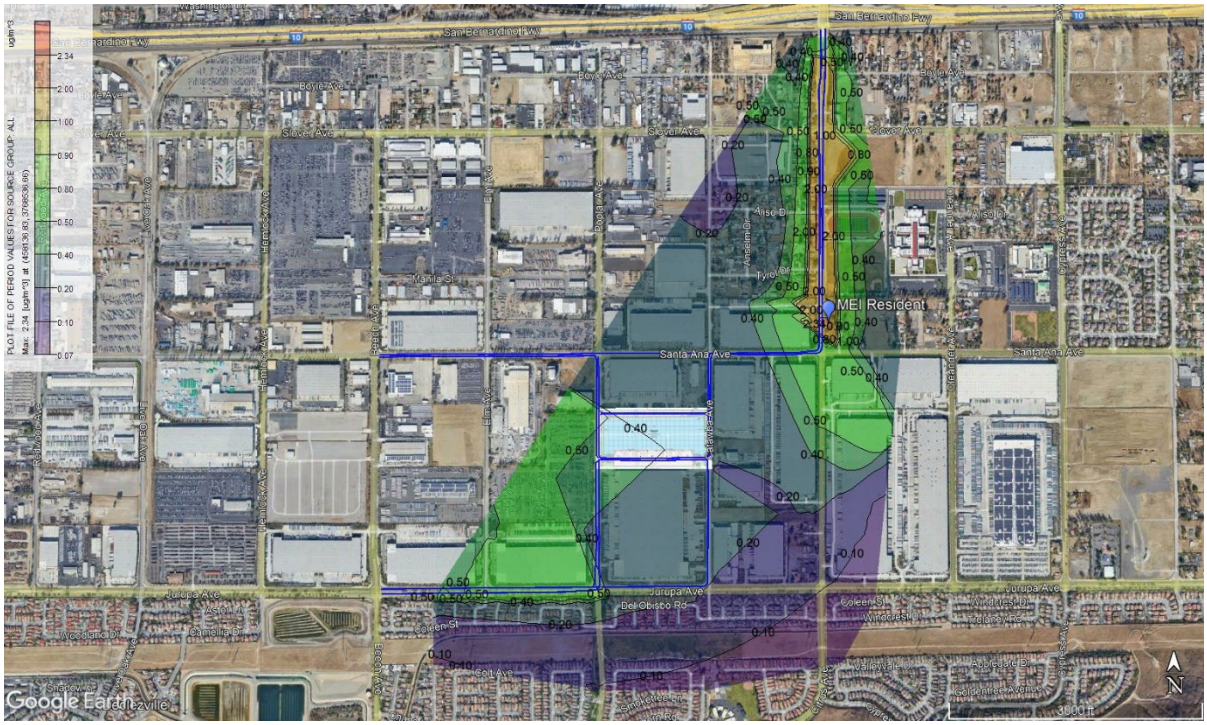
Construction Cancer Risk – Worker Receptor



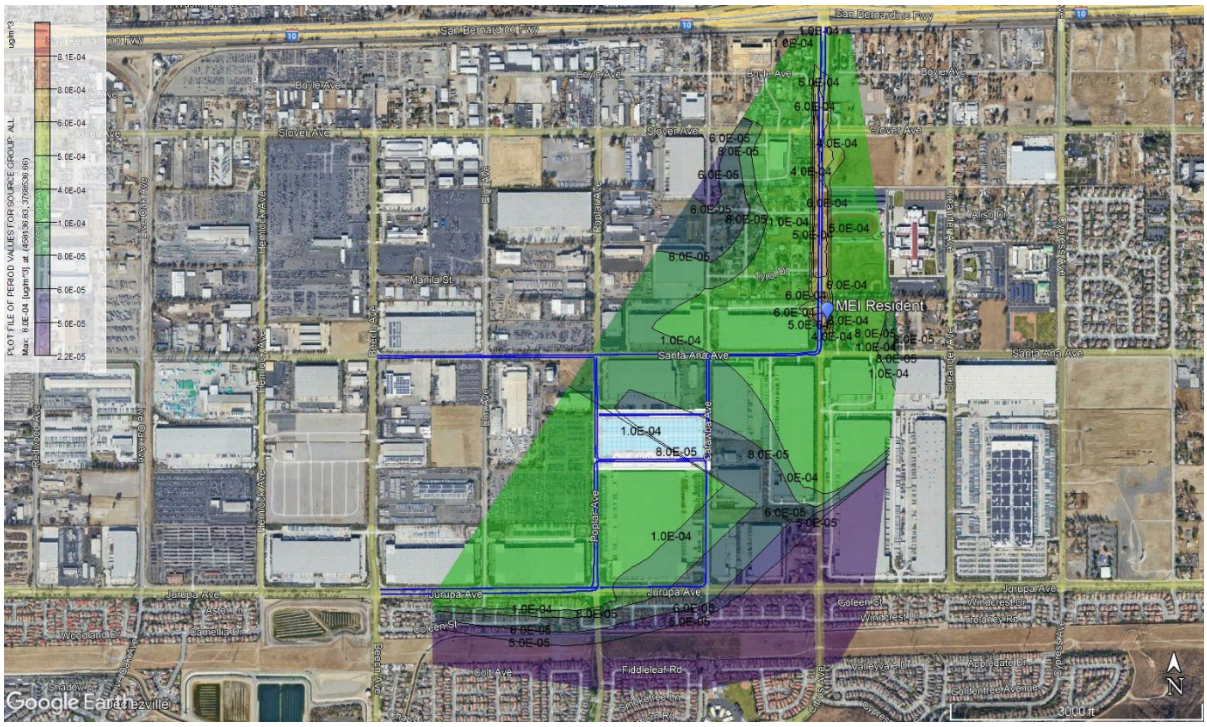
Construction Chronic Hazard Index – Worker Receptor



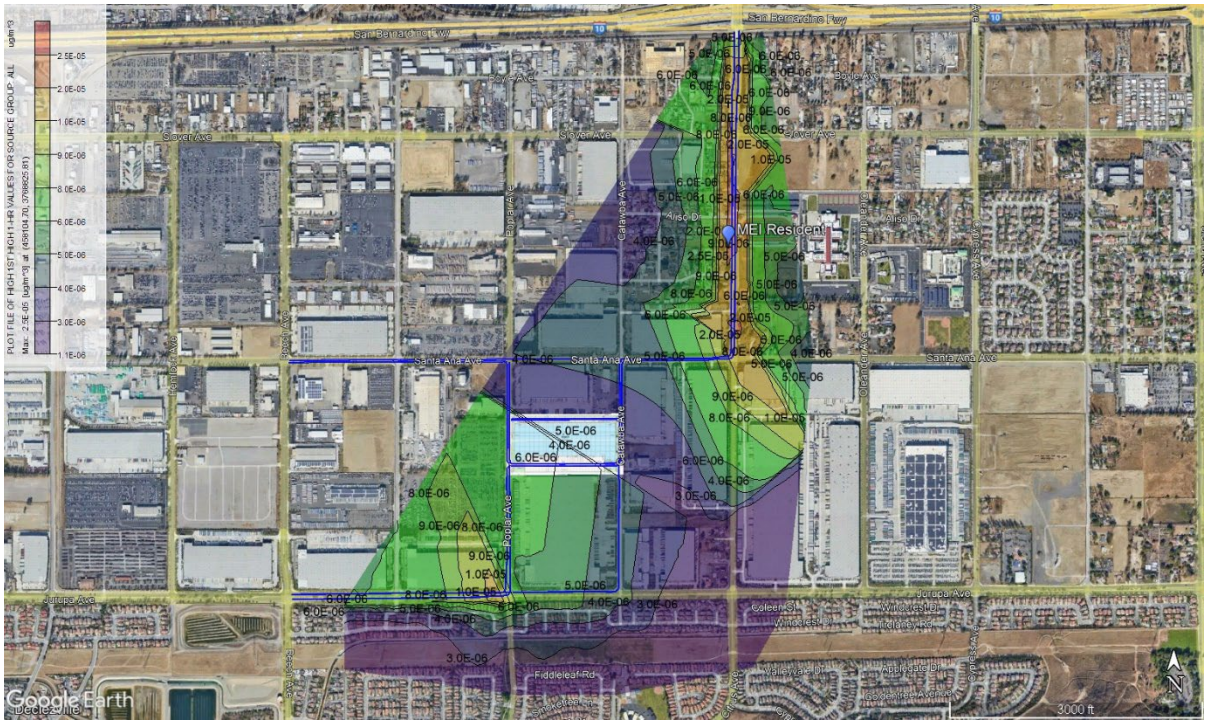
Operational Cancer Risk – Sensitive Receptor



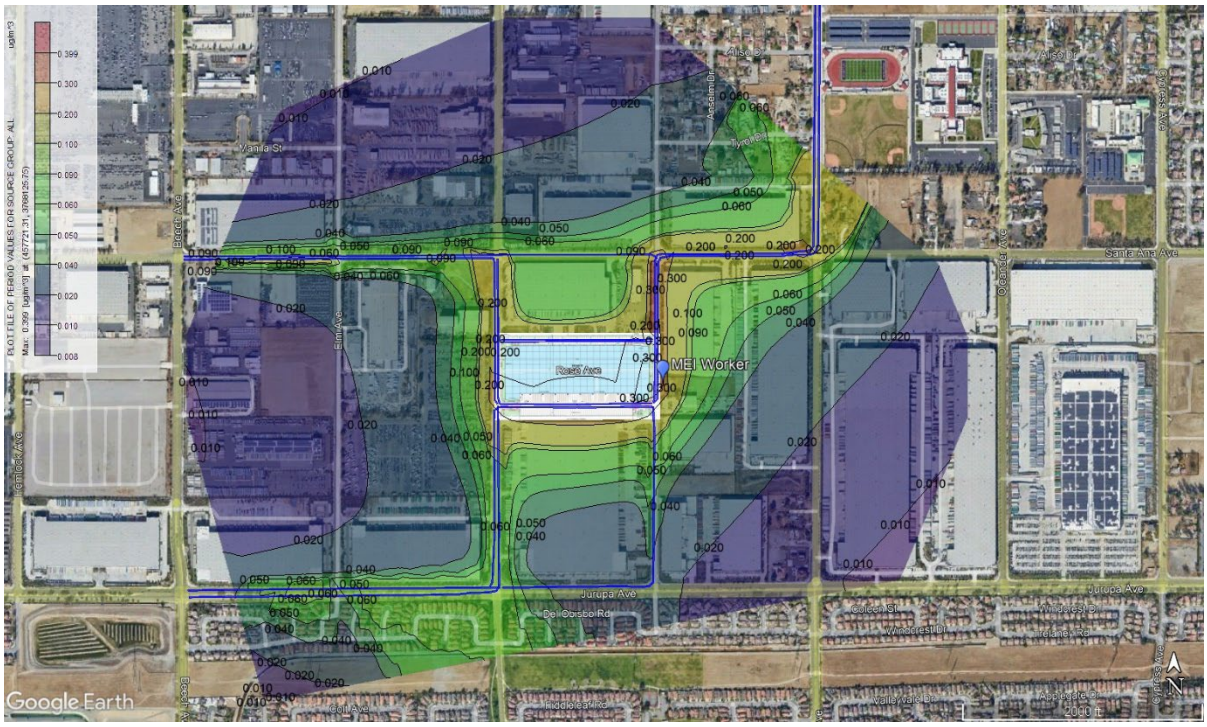
Operational Chronic Hazard Index – Sensitive Receptor



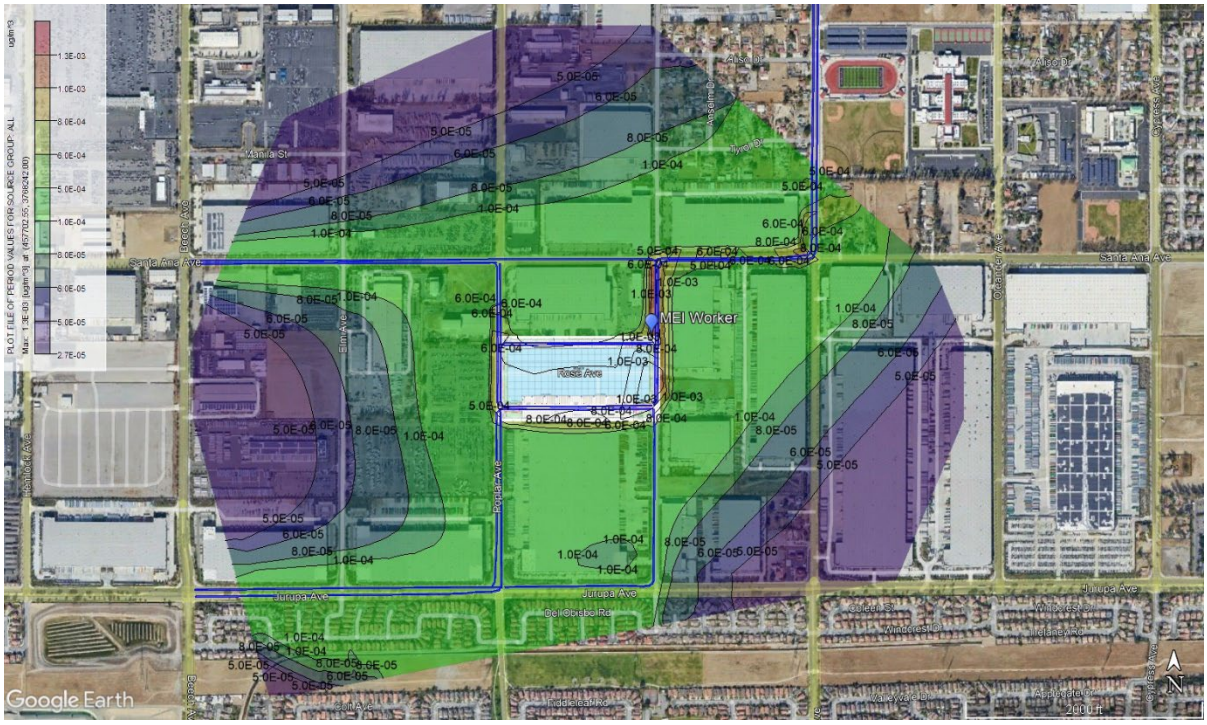
Operational Acute Hazard Index – Sensitive Receptor



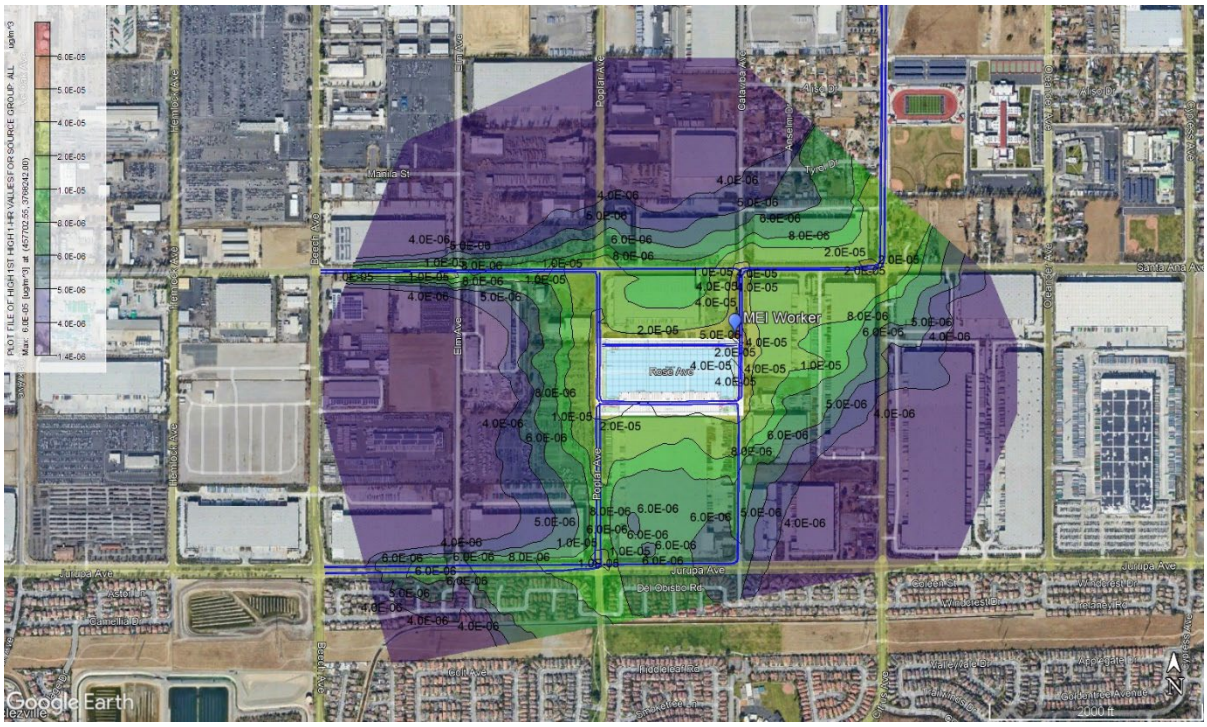
Operational Cancer Risk – Worker Receptor



Operational Acute Hazard Index – Worker Receptor



Operational Acute Hazard Index – Worker Receptor



Construction	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.38	2.09
Chronic HI	2.83E-02	2.64E-03
Acute HI	0.0	0.0
PM 2.5	0.142	0.013

Construction (T2)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.38	2.09
Chronic HI	2.83E-02	2.64E-03
Acute HI	0.0	0.0
PM 2.5	0.142	0.013

Construction (T2L3)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.11	0.61
Chronic HI	8.48E-03	7.91E-04
Acute HI	0.0	0.0
PM 2.5	0.042	0.004

Construction (T4)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.04	0.23
Chronic HI	3.21E-03	3.00E-04
Acute HI	0.0	0.0
PM 2.5	0.016	0.001

Operational	Worker Receptor	Sensitive Receptor
30Yr Cancer Risk (in a Million)	---	2.34
70Yr Cancer Risk (in a Million)	---	2.73
25Yr Cancer Risk (in a Million)	0.40	---
Chronic HI	1.31E-03	8.02E-04
Acute HI	5.97E-05	2.54E-05
PM 2.5	0.0064	0.0039

PM 10				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.0825	0.0825	0.02471	9.36E-03
Year 2	0.00423	0.00423	7.61E-04	2.46E-04
Year 3	0	0	0	0

PM 2.5				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.0761	0.0761	0.0227	8.97E-03
Year 2	0.003974	0.003974	7.16E-04	4.71E-04
Year 3	0	0	0	0

PM 10				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	165	165	49.42	18.72
Year 2	8.459	8.459	1.521	0.491
Year 3	0	0	0	0

PM 2.5				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	152.2	152.2	45.4	17.94
Year 2	7.948	7.948	1.431	0.941
Year 3	0	0	0	0

PM 10				
% Chng	UM	M	T2L3	T4
Year 1	100%	100%	30%	11%
Year 2	100%	100%	18%	6%
Year 3	0%	0%	0%	0%

PM 2.5				
g/sec	UM	T2	T2L3	T4
Year 1	0.002189	0.002189	0.000653	0.000258
Year 2	0.000114	0.000114	2.06E-05	1.35E-05
Year 3	0	0	0	0

			UnMitigated				T2				T2L3				T4			
						2.09E-06				2.09E-06				6.15E-07				2.32E-07
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	457789.6	3768636	9.59E-07	4.54E-08	0.00E+00	1.00E-06	9.59E-07	4.54E-08	0.00E+00	1.00E-06	2.87E-07	8.16E-09	0.00E+00	2.95E-07	1.09E-07	2.64E-09	0.00E+00	1.11E-07
2	457781	3768639	9.20E-07	4.36E-08	0.00E+00	9.64E-07	9.20E-07	4.36E-08	0.00E+00	9.64E-07	2.76E-07	7.83E-09	0.00E+00	2.83E-07	1.04E-07	2.53E-09	0.00E+00	1.07E-07
3	457772.3	3768643	8.85E-07	4.19E-08	0.00E+00	9.27E-07	8.85E-07	4.19E-08	0.00E+00	9.27E-07	2.65E-07	7.54E-09	0.00E+00	2.73E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
4	457763.6	3768647	8.53E-07	4.04E-08	0.00E+00	8.93E-07	8.53E-07	4.04E-08	0.00E+00	8.93E-07	2.55E-07	7.26E-09	0.00E+00	2.63E-07	9.67E-08	2.34E-09	0.00E+00	9.91E-08
5	457754.9	3768650	8.21E-07	3.89E-08	0.00E+00	8.60E-07	8.21E-07	3.89E-08	0.00E+00	8.60E-07	2.46E-07	6.99E-09	0.00E+00	2.53E-07	9.31E-08	2.26E-09	0.00E+00	9.54E-08
6	457746.2	3768654	7.89E-07	3.73E-08	0.00E+00	8.26E-07	7.89E-07	3.73E-08	0.00E+00	8.26E-07	2.36E-07	6.72E-09	0.00E+00	2.43E-07	8.95E-08	2.17E-09	0.00E+00	9.17E-08
7	457737.5	3768657	7.57E-07	3.59E-08	0.00E+00	7.93E-07	7.57E-07	3.59E-08	0.00E+00	7.93E-07	2.27E-07	6.45E-09	0.00E+00	2.33E-07	8.59E-08	2.08E-09	0.00E+00	8.80E-08
8	457728.8	3768661	7.28E-07	3.45E-08	0.00E+00	7.63E-07	7.28E-07	3.45E-08	0.00E+00	7.63E-07	2.18E-07	6.20E-09	0.00E+00	2.24E-07	8.26E-08	2.00E-09	0.00E+00	8.46E-08
9	457886.5	3768635	1.17E-06	5.54E-08	0.00E+00	1.22E-06	1.17E-06	5.54E-08	0.00E+00	1.22E-06	3.50E-07	9.95E-09	0.00E+00	3.60E-07	1.33E-07	3.21E-09	0.00E+00	1.36E-07
10	457877.8	3768639	1.13E-06	5.36E-08	0.00E+00	1.18E-06	1.13E-06	5.36E-08	0.00E+00	1.18E-06	3.39E-07	9.63E-09	0.00E+00	3.48E-07	1.28E-07	3.11E-09	0.00E+00	1.31E-07
11	457869	3768643	1.09E-06	5.18E-08	0.00E+00	1.15E-06	1.09E-06	5.18E-08	0.00E+00	1.15E-06	3.28E-07	9.31E-09	0.00E+00	3.37E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
12	457860.3	3768646	1.06E-06	5.00E-08	0.00E+00	1.11E-06	1.06E-06	5.00E-08	0.00E+00	1.11E-06	3.16E-07	8.99E-09	0.00E+00	3.25E-07	1.20E-07	2.90E-09	0.00E+00	1.23E-07
13	457851.5	3768650	1.02E-06	4.83E-08	0.00E+00	1.07E-06	1.02E-06	4.83E-08	0.00E+00	1.07E-06	3.05E-07	8.68E-09	0.00E+00	3.14E-07	1.16E-07	2.80E-09	0.00E+00	1.18E-07
14	457842.8	3768653	9.83E-07	4.66E-08	0.00E+00	1.03E-06	9.83E-07	4.66E-08	0.00E+00	1.03E-06	2.95E-07	8.37E-09	0.00E+00	3.03E-07	1.12E-07	2.70E-09	0.00E+00	1.14E-07
15	457834	3768657	9.48E-07	4.49E-08	0.00E+00	9.93E-07	9.48E-07	4.49E-08	0.00E+00	9.93E-07	2.84E-07	8.07E-09	0.00E+00	2.92E-07	1.08E-07	2.61E-09	0.00E+00	1.10E-07
16	457825.3	3768661	9.14E-07	4.33E-08	0.00E+00	9.57E-07	9.14E-07	4.33E-08	0.00E+00	9.57E-07	2.74E-07	7.78E-09	0.00E+00	2.81E-07	1.04E-07	2.51E-09	0.00E+00	1.06E-07
17	457816.5	3768664	8.80E-07	4.17E-08	0.00E+00	9.21E-07	8.80E-07	4.17E-08	0.00E+00	9.21E-07	2.64E-07	7.49E-09	0.00E+00	2.71E-07	9.98E-08	2.42E-09	0.00E+00	1.02E-07
18	457807.8	3768668	8.47E-07	4.01E-08	0.00E+00	8.87E-07	8.47E-07	4.01E-08	0.00E+00	8.87E-07	2.54E-07	7.21E-09	0.00E+00	2.61E-07	9.61E-08	2.33E-09	0.00E+00	9.84E-08
19	457799	3768672	8.15E-07	3.86E-08	0.00E+00	8.53E-07	8.15E-07	3.86E-08	0.00E+00	8.53E-07	2.44E-07	6.94E-09	0.00E+00	2.51E-07	9.25E-08	2.24E-09	0.00E+00	9.47E-08
20	457790.3	3768675	7.84E-07	3.71E-08	0.00E+00	8.21E-07	7.84E-07	3.71E-08	0.00E+00	8.21E-07	2.35E-07	6.67E-09	0.00E+00	2.41E-07	8.89E-08	2.15E-09	0.00E+00	9.11E-08
21	457781.5	3768679	7.54E-07	3.57E-08	0.00E+00	7.90E-07	7.54E-07	3.57E-08	0.00E+00	7.90E-07	2.26E-07	6.42E-09	0.00E+00	2.32E-07	8.55E-08	2.07E-09	0.00E+00	8.76E-08
22	457772.8	3768683	7.25E-07	3.43E-08	0.00E+00	7.59E-07	7.25E-07	3.43E-08	0.00E+00	7.59E-07	2.17E-07	6.17E-09	0.00E+00	2.23E-07	8.23E-08	1.99E-09	0.00E+00	8.43E-08
23	457764	3768686	6.97E-07	3.30E-08	0.00E+00	7.30E-07	6.97E-07	3.30E-08	0.00E+00	7.30E-07	2.09E-07	5.94E-09	0.00E+00	2.15E-07	7.91E-08	1.92E-09	0.00E+00	8.10E-08
24	457755.3	3768690	6.70E-07	3.17E-08	0.00E+00	7.02E-07	6.70E-07	3.17E-08	0.00E+00	7.02E-07	2.01E-07	5.71E-09	0.00E+00	2.07E-07	7.61E-08	1.84E-09	0.00E+00	7.79E-08
25	457746.5	3768694	6.46E-07	3.06E-08	0.00E+00	6.76E-07	6.46E-07	3.06E-08	0.00E+00	6.76E-07	1.93E-07	5.50E-09	0.00E+00	1.99E-07	7.33E-08	1.77E-09	0.00E+00	7.50E-08
26	457737.8	3768697	6.23E-07	2.95E-08	0.00E+00	6.53E-07	6.23E-07	2.95E-08	0.00E+00	6.53E-07	1.87E-07	5.31E-09	0.00E+00	1.92E-07	7.07E-08	1.71E-09	0.00E+00	7.24E-08
27	457729	3768701	6.02E-07	2.85E-08	0.00E+00	6.31E-07	6.02E-07	2.85E-08	0.00E+00	6.31E-07	1.80E-07	5.13E-09	0.00E+00	1.86E-07	6.83E-08	1.66E-09	0.00E+00	7.00E-08
28	457984.5	3768634	1.32E-06	6.27E-08	0.00E+00	1.39E-06	1.32E-06	6.27E-08	0.00E+00	1.39E-06	3.97E-07	1.13E-08	0.00E+00	4.08E-07	1.50E-07	3.64E-09	0.00E+00	1.54E-07
29	457975.6	3768638	1.29E-06	6.12E-08	0.00E+00	1.35E-06	1.29E-06	6.12E-08	0.00E+00	1.35E-06	3.87E-07	1.10E-08	0.00E+00	3.98E-07	1.47E-07	3.55E-09	0.00E+00	1.50E-07
30	457966.8	3768642	1.26E-06	5.97E-08	0.00E+00	1.32E-06	1.26E-06	5.97E-08	0.00E+00	1.32E-06	3.78E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.47E-09	0.00E+00	1.47E-07
31	457958	3768645	1.23E-06	5.82E-08	0.00E+00	1.29E-06	1.23E-06	5.82E-08	0.00E+00	1.29E-06	3.68E-07	1.05E-08	0.00E+00	3.78E-07	1.39E-07	3.38E-09	0.00E+00	1.43E-07
32	457949.2	3768649	1.20E-06	5.66E-08	0.00E+00	1.25E-06	1.20E-06	5.66E-08	0.00E+00	1.25E-06	3.58E-07	1.02E-08	0.00E+00	3.68E-07	1.36E-07	3.29E-09	0.00E+00	1.39E-07
33	457940.4	3768653	1.16E-06	5.50E-08	0.00E+00	1.22E-06	1.16E-06	5.50E-08	0.00E+00	1.22E-06	3.48E-07	9.89E-09	0.00E+00	3.58E-07	1.32E-07	3.19E-09	0.00E+00	1.35E-07
34	457931.6	3768656	1.13E-06	5.34E-08	0.00E+00	1.18E-06	1.13E-06	5.34E-08	0.00E+00	1.18E-06	3.38E-07	9.61E-09	0.00E+00	3.48E-07	1.28E-07	3.10E-09	0.00E+00	1.31E-07
35	457922.8	3768660	1.10E-06	5.19E-08	0.00E+00	1.15E-06	1.10E-06	5.19E-08	0.00E+00	1.15E-06	3.28E-07	9.33E-09	0.00E+00	3.38E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
36	457914	3768664	1.06E-06	5.03E-08	0.00E+00	1.11E-06	1.06E-06	5.03E-08	0.00E+00	1.11E-06	3.18E-07	9.05E-09	0.00E+00	3.28E-07	1.21E-07	2.92E-09	0.00E+00	1.24E-07
37	457905.2	3768667	1.03E-06	4.88E-08	0.00E+00	1.08E-06	1.03E-06	4.88E-08	0.00E+00	1.08E-06	3.09E-07	8.77E-09	0.00E+00	3.17E-07	1.17E-07	2.83E-09	0.00E+00	1.20E-07
38	457896.4	3768671	9.96E-07	4.72E-08	0.00E+00	1.04E-06	9.96E-07	4.72E-08	0.00E+00	1.04E-06	2.98E-07	8.48E-09	0.00E+00	3.07E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
39	457887.6	3768675	9.62E-07	4.56E-08	0.00E+00	1.01E-06	9.62E-07	4.56E-08	0.00E+00	1.01E-06	2.88E-07	8.19E-09	0.00E+00	2.96E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
40	457878.8	3768678	9.30E-07	4.40E-08	0.00E+00	9.74E-07	9.30E-07	4.40E-08	0.00E+00	9.74E-07	2.78E-07	7.91E-09	0.00E+00	2.86E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
41	457870	3768682	8.98E-07	4.25E-08	0.00E+00	9.40E-07	8.98E-07	4.25E-08	0.00E+00	9.40E-07	2.69E-07	7.64E-09	0.00E+00	2.77E-07	1.02E-07	2.47E-09	0.00E+00	1.04E-07
42	457861.2	3768686	8.68E-07	4.11E-08	0.00E+00	9.09E-07	8.68E-07	4.11E-08	0.00E+00	9.09E-07	2.60E-07	7.39E-09	0.00E+00	2.67E-07	9.85E-08	2.39E-09	0.00E+00	1.01E-07
43	457852.4	3768689	8.39E-07	3.97E-08	0.00E+00	8.78E-07	8.39E-07	3.97E-08	0.00E+00	8.78E-07	2.51E-07	7.14E-09	0.00E+00	2.58E-07	9.51E-08	2.30E-09	0.00E+00	9.74E-08
44	457843.6	3768693	8.09E-07	3.83E-08	0.00E+00	8.47E-07	8.09E-07	3.83E-08	0.00E+00	8.47E-07	2.42E-07	6.89E-09	0.00E+00	2.49E-07	9.18E-08	2.22E-09	0.00E+00	9.40E-08
45	457834.8	3768697	7.80E-07	3.69E-08	0.00E+00	8.17E-07	7.80E-07	3.69E-08	0.00E+00	8.17E-07	2.34E-07	6.64E-09	0.00E+00	2.40E-07	8.85E-08	2.14E-09	0.00E+00	9.07E-08
46	457826	3768700	7.53E-07	3.57E-08	0.00E+00	7.89E-07	7.53E-07	3.57E-08	0.00E+00	7.89E-07	2.26E-07	6.41E-09	0.00E+00	2.32E-07	8.54E-08	2.07E-09	0.00E+00	8.75E-08
47	457817.2	3768704	7.27E-07	3.44E-08	0.00E+00	7.62E-07	7.27E-07	3.44E-08	0.00E+00	7.62E-07	2.18E-07	6.19E-09	0.00E+00	2.24E-07	8.25E-08	2.00E-09	0.00E+00	8.45E-08
48	457808.4	3768708	7.02E-07	3.32E-08	0.00E+00	7.35E-07	7.02E-07	3.32E-08	0.00E+00	7.35E-07	2.10E-07	5.98E-09	0.00E+00	2.16E-07	7.96E-08	1.93E-09	0.00E+00	8.16E-08
49	457799.6	3768712	6.76E-07	3.20E-08	0.00E+00	7.08E-07	6.76E-07	3.20E-08	0.00E+00	7.08E-07	2.02E-07	5.75E-09	0.00E+00	2.08E-07	7.66E-08	1.86E-09	0.00E+00	7.85E-08
50	457790.8	3768715	6.51E-07	3.08E-08	0.00E+00	6.81E-07	6.51E-07	3.08E-08	0.00E+00	6.81E-07	1.95E-07	5.54E-09	0.00E+00	2.00E-07	7.38E-08	1.79E-09	0.00E+00	7.56E-08
51	457782	3768719	6.27E-07	2.97E-08	0.00E+00	6.57E-07	6.27E-07	2.97E-08	0.00E+00	6.57E-07	1.88E-07	5.34E-09	0.00E+00	1.93E-07	7.12E-08	1.72E-09	0.00E+00	7.29E-08
52	457773.2	3768723	6.04E-07	2.86E-08	0.00E+00	6.33E-07	6.04E-07	2.86E-08	0.00E+00	6.33E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.86E-08	1.66E-09	0.00E+00	7.02E-08
53	457764.4	3768726	5.82E-07	2.76E-08	0.00E+00	6.10E-07	5.82E-07	2.76E-08	0.00E+00	6.10E-07	1.74E-07	4.96E-09	0.00E+00	1.79E-07	6.60E-08	1.60E-09	0.00E+00	6.76E-08
54	457755.6	3768730	5.61E-07	2.65E-08	0.00E+00	5.87E-07	5.61E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.52E-08
55	457746.8	3768734	5.40E-07	2.56E-08	0.00E+00	5.66E-07	5.40E-07	2.56E-08	0.00E+00	5.66E-07	1.62E-07	4.60E-09	0.00E+00	1.66E-07	6.13E-08	1.49E-09	0.00E+00	6.28E-08
56	457738	3768737	5.21E-07	2.47E-08	0.00E+00	5.46E-07	5.21E-07	2.47E-08	0.00E+00	5.46E-07	1.56E-07	4.43E-09	0.00E+00	1.60E-07	5.91E-08	1.43E-09	0.00E+00	6.05E-08
57	457729.2	3768741	5.02E-07	2.38E-08	0.00E+00	5.26E-07	5.02E-07	2.38E-08	0.00E+00	5.26E-07	1.50E-07	4.28E-09	0.00E+00	1.55E-07	5.70E-08	1.38E-09	0.00E+00	5.84E-08
58	458172.7	3768448	2.00E-06	9.45E-08	0.00E+00	2.09E-06	2.00E-06	9.45E-08	0.00E+00	2.09E-06	5.98E-07	1.70E-08	0.00E+00	6.15E-07	2.26E-07	5.49E-09	0.00E+00	2.32E-07
59	458169.2	3768457	1.99E-06	9.41E-08	0.00E+00	2.08E-06	1.99E-06	9.41E-08	0.00E+00	2.08E-06	5.96E-07	1.69E-08	0.00E+00	6.12E-07	2.26E-07	5.46E-09	0.00E+00	2.31E-07
60	458165.6	3768466	1.98E-06	9.36E-08	0.00E+00	2.07E-06	1.98E-06	9.36E-08	0.00E+00	2.07E-06	5.92E-07	1.68E-08	0.00E+00	6.09E-07	2.24E-07	5.44E-09	0.00E+00	2.30E-07
61	458162	3768474	1.97E-06	9.30E-08	0.00E+00	2.06E-06	1.97E-06	9.30E-08	0.00E+00	2.06E-06	5.89E-07	1.67E-08	0.00E+00	6.05E-07	2.23E-07	5.40E-09	0.00E+00	2.28E-07
62	458158.4	3768483	1.95E-06	9.23E-08	0.00E+00	2.04E-06	1.95E-06	9.23E-08	0.00E+00	2.04E-06	5.84E-07	1.66E-08	0.00E+00	6.00E-07	2.21E-07	5.36E-09	0.00E+00	2.27E-07
63	458154.8	3768492	1.93E-06	9.14E-08	0.00E+00	2.02E-06	1.93E-06	9.14E-08	0.00E+00	2.02E-06	5.78E-07	1.64E-08	0.00E+00	5.95E-07	2.19E-07	5.31E-09	0.00E+00	2.24E-07
64	458151.2	3768501	1.91E-06	9.04E-08	0.00E+00	2.00E-06	1.91E-06	9.04E-08	0.00E+00	2.00E-06	5.72E-07	1.63E-08	0.00E+00	5.88E-07	2.17E-07	5.25E-09	0.00E+00	2.22E-07
65	458147.6	3768510	1.89E-06	8.93E-08	0.00E+00	1.98E-06	1.89E-06	8.93E-08	0.00E+00	1.98E-06	5.65E-07	1.61E-08	0.00E+00	5.81E-07	2.14E-07	5.18E-09	0.00E+00	2.19E-07
66	458144	3768519	1.86E-06	8.81E-08	0.00E+00	1.95E-06	1.86E-06	8.81E-08	0.00E+00	1.95E-06	5.57E-07	1.58E-08	0.00E+00	5.73E-07	2.11E-07	5.11E-09	0.00E+00	2.16E-07
67	458140.4	3768528	1.83E-06	8.68E-08	0.00E+00	1.92E-06	1.83E-06	8.68E-08	0.00E+00	1.92E-06	5.49E-07	1.56E-08	0.00E+00	5.65E-07	2.08E-07	5.04E-09	0.00E+00	2.13E-07
68	458136.8	3768537	1.80E-06	8.53E-08	0.00E+00	1.89E-06	1.80E-06	8.53E-08	0.00E+00	1.89E-06	5.40E-07	1.53E-08	0.00E+00	5.55E-07	2.05E-07	4.95E-09	0.00E+00	2.09E-07
69	458074.4	3768637	1.37E-06	6.51E-08	0.00E+00	1.44E-06	1.37E-06	6.51E-08	0.00E+00	1.44E-06	4.12E-07	1.17E-08	0.00E+00	4.23E-07	1.56E-07	3.78E-09	0.00E+00	1.60E-07
70	458065.5	3768640	1.35E-06	6.41E-08	0.00E+00	1.42E-06	1.35E-06	6.41E-08	0.00E+00	1.42E-06	4.05E-07	1.15E-08	0.00E+00	4.17E-07	1.54E-07	3.72E-09	0.00E+00	1.57E-07
71	458056.7	3768644	1.33E-06	6.31E-08	0.00E+00	1.40E-06	1.33E-06	6.31E-08	0.00E+00	1.40E-06	3.99E-07	1.13E-08	0.00E+00	4.10E-07	1.51E-07	3.66E-09	0.00E+00	1.55E-07
72	458047.8	3768648	1.31E-06	6.20E-08	0.00E+00	1.37E-06	1.31E-06	6.20E-08	0.00E+00	1.37E-06	3.92E-07	1.11E-08	0.00E+00	4.03E-07	1.49E-07	3.60E-09	0.00E+00	1.52E-07
73	458039	3768651	1.29E-06	6.08E-08	0.00E+00	1.35E-06	1.29E-06	6.08E-08	0.00E+00	1.35E-06	3.85E-07	1.09E-08	0.00E+00	3.96E-07	1.46E-07	3.53E-09	0.00E+00	1.49E-07
74	458030.1	3768655	1.26E-06	5.96E-08	0.00E+00	1.32E-06	1.26E-06	5.96E-08	0.00E+00	1.32E-06	3.77E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.46E-09	0.00E+00	1.46E-07
75	458021.3	3768659	1.23E-06	5.84E-08	0.00E+00	1.29E-06	1.23E-06	5.84E-08	0.00E+00	1.29E-06	3.69E-07	1.05E-08	0.00E+00	3.80E-07	1.40E-07	3.39E-09	0.00E+00	1.43E-07
76	458012.5	3768663	1.21E-06	5.71E-08	0.00E+00	1.26E-06	1.21E-06	5.71E-08	0.00E+00	1.26E-06	3.61E-07	1.03E-08	0.00E+00	3.71E-07	1.37E-07	3.31E-09	0.00E+00	1.40E-07
77	458003.6	3768666	1.18E-06	5.58E-08	0.00E+00	1.23E-06	1.18E-06	5.58E-08	0.00E+00	1.23E-06	3.53E-07	1.00E-08	0.00E+00	3.63E-07	1.34E-07	3.24E-09	0.00E+00	1.37E-07
78	457994.8	3768670	1.15E-06	5.45E-08	0.00E+00	1.21E-06	1.15E-06	5.45E-08	0.00E+00	1.21E-06	3.45E-07	9.80E-09	0.00E+00	3.55E-07	1.31E-07	3.16E-09	0.00E+00	1.34E-07
79	457985.9	3768674	1.12E-06	5.32E-08	0.00E+00	1.18E-06	1.12E-06	5.32E-08	0.00E+00	1.18E-06	3.37E-07	9.57E-09	0.00E+00	3.46E-07	1.27E-07	3.09E-09	0.00E+00	1.31E-07
80	457977.1	3768677	1.09E-06	5.18E-08	0.00E+00	1.15E-06	1.09E-06	5.18E-08	0.00E+00	1.15E-06	3.28E-07	9.32E-09	0.00E+00	3.37E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
81	457968.2	3768681	1.06E-06	5.04E-08	0.00E+00	1.11E-06	1.06E-06	5.04E-08	0.00E+00	1.11E-06	3.19E-07	9.06E-09	0.00E+00	3.28E-07	1.21E-07	2.92E-09	0.00E+00	1.24E-07
82	457959.4	3768685	1.03E-06	4.89E-08	0.00E+00	1.08E-06	1.03E-06	4.89E-08	0.00E+00	1.08E-06	3.10E-07	8.80E-09	0.00E+00	3.18E-07	1.17E-07	2.84E-09	0.00E+00	1.20E-07
83	457950.5	3768688	1.00E-06	4.75E-08	0.00E+00	1.05E-06	1.00E-06	4.75E-08	0.00E+00	1.05E-06	3.01E-07	8.55E-09	0.00E+00	3.09E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
84	457941.7	3768692	9.75E-07	4.62E-08	0.00E+00	1.02E-06	9.75E-07	4.62E-08	0.00E+00	1.02E-06	2.92E-07	8.30E-09	0.00E+00	3.00E-07	1.11E-07	2.68E-09	0.00E+00	1.13E-07
85	457932.8	3768696	9.47E-07	4.48E-08	0.00E+00	9.91E-07	9.47E-07	4.48E-08	0.00E+00	9.91E-07	2.84E-07	8.06E-09	0.00E+00	2.92E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
86	457924	3768700	9.18E-07	4.35E-08	0.00E+00	9.61E-07	9.18E-07	4.35E-08	0.00E+00	9.61E-07	2.75E-07	7.81E-09	0.00E+00	2.83E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
87	457915.1	3768703	8.89E-07	4.21E-08	0.00E+00	9.31E-07	8.89E-07	4.21E-08	0.00E+00	9.31E-07	2.66E-07	7.57E-09	0.00E+00	2.74E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
88	457906.3	3768707	8.60E-07	4.07E-08	0.00E+00	9.01E-07	8.60E-07	4.07E-08	0.00E+00	9.01E-07	2.58E-07	7.32E-09	0.00E+00	2.65E-07	9.76E-08	2.36E-09	0.00E+00	9.99E-08
89	457897.4	3768711	8.32E-07	3.94E-08	0.00E+00	8.71E-07	8.32E-07	3.94E-08	0.00E+00	8.71E-07	2.49E-07	7.08E-09	0.00E+00	2.56E-07	9.43E-08	2.29E-09	0.00E+00	9.66E-08
90	457888.6	3768714	8.04E-07	3.81E-08	0.00E+00	8.42E-07	8.04E-07	3.81E-08	0.00E+00	8.42E-07	2.41E-07	6.84E-09	0.00E+00	2.48E-07	9.12E-08	2.21E-09	0.00E+00	9.34E-08
91	457879.7	3768718	7.76E-07	3.68E-08	0.00E+00	8.13E-07	7.76E-07	3.68E-08	0.00E+00	8.13E-07	2.33E-07	6.61E-09	0.00E+00	2.39E-07	8.81E-08	2.13E-09	0.00E+00	9.02E-08
92	457870.9	3768722	7.50E-07	3.55E-08	0.00E+00	7.85E-07	7.50E-07	3.55E-08	0.00E+00	7.85E-07	2.25E-07	6.38E-09	0.00E+00	2.31E-07	8.51E-08	2.06E-09	0.00E+00	8.71E-08
93	457862.1	3768725	7.24E-07	3.43E-08	0.00E+00	7.58E-07	7.24E-07	3.43E-08	0.00E+00	7.58E-07	2.17E-07	6.16E-09	0.00E+00	2.23E-07	8.21E-08	1.99E-09	0.00E+00	8.41E-08
94	457853.2	3768729	6.98E-07	3.31E-08	0.00E+00	7.31E-07	6.98E-07	3.31E-08	0.00E+00	7.31E-07	2.09E-07	5.94E-09	0.00E+00	2.15E-07	7.92E-08	1.92E-09	0.00E+00	8.11E-08
95	457844.4	3768733	6.73E-07	3.19E-08	0.00E+00	7.05E-07	6.73E-07	3.19E-08	0.00E+00	7.05E-07	2.02E-07	5.73E-09	0.00E+00	2.07E-07	7.64E-08	1.85E-09	0.00E+00	7.83E-08
96	457835.5	3768737	6.50E-07	3.08E-08	0.00E+00	6.80E-07	6.50E-07	3.08E-08	0.00E+00	6.80E-07	1.95E-07	5.53E-09	0.00E+00	2.00E-07	7.37E-08	1.78E-09	0.00E+00	7.55E-08
97	457826.7	3768740	6.26E-07	2.97E-08	0.00E+00	6.56E-07	6.26E-07	2.97E-08	0.00E+00	6.56E-07	1.88E-07	5.33E-09	0.00E+00	1.93E-07	7.11E-08	1.72E-09	0.00E+00	7.28E-08
98	457817.8	3768744	6.04E-07	2.86E-08	0.00E+00	6.33E-07	6.04E-07	2.86E-08	0.00E+00	6.33E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.85E-08	1.66E-09	0.00E+00	7.02E-08
99	457809	3768748	5.82E-07	2.76E-08	0.00E+00	6.10E-07	5.82E-07	2.76E-08	0.00E+00	6.10E-07	1.74E-07	4.96E-09	0.00E+00	1.79E-07	6.61E-08	1.60E-09	0.00E+00	6.77E-08
100	457800.1	3768751	5.63E-07	2.66E-08	0.00E+00	5.89E-07	5.63E-07	2.66E-08	0.00E+00	5.89E-07	1.69E-07	4.79E-09	0.00E+00	1.73E-07	6.38E-08	1.55E-09	0.00E+00	6.54E-08
101	457791.3	3768755	5.43E-07	2.57E-08	0.00E+00	5.69E-07	5.43E-07	2.57E-08	0.00E+00	5.69E-07	1.63E-07	4.62E-09	0.00E+00	1.67E-07	6.16E-08	1.49E-09	0.00E+00	6.31E-08
102	457782.4	3768759	5.24E-07	2.48E-08	0.00E+00	5.49E-07	5.24E-07	2.48E-08	0.00E+00	5.49E-07	1.57E-07	4.46E-09	0.00E+00	1.61E-07	5.94E-08	1.44E-09	0.00E+00	6.09E-08
103	457773.6	3768762	5.06E-07	2.39E-08	0.00E+00	5.30E-07	5.06E-07	2.39E-08	0.00E+00	5.30E-07	1.51E-07	4.31E-09	0.00E+00	1.56E-07	5.74E-08	1.39E-09	0.00E+00	5.88E-08
104	457764.7	3768766	4.89E-07	2.32E-08	0.00E+00	5.12E-07	4.89E-07	2.32E-08	0.00E+00	5.12E-07	1.47E-07	4.17E-09	0.00E+00	1.51E-07	5.55E-08	1.34E-09	0.00E+00	5.69E-08
105	457755.9	3768770	4.74E-07	2.24E-08	0.00E+00	4.96E-07	4.74E-07	2.24E-08	0.00E+00	4.96E-07	1.42E-07	4.03E-09	0.00E+00	1.46E-07	5.37E-08	1.30E-09	0.00E+00	5.50E-08
106	457747	3768774	4.58E-07	2.17E-08	0.00E+00	4.79E-07	4.58E-07	2.17E-08	0.00E+00	4.79E-07	1.37E-07	3.90E-09	0.00E+00	1.41E-07	5.19E-08	1.26E-09	0.00E+00	5.32E-08
107	457738.2	3768777	4.42E-07	2.09E-08	0.00E+00	4.63E-07	4.42E-07	2.09E-08	0.00E+00	4.63E-07	1.32E-07	3.77E-09	0.00E+00	1.36E-07	5.02E-08	1.22E-09	0.00E+00	5.14E-08

108	457729.3	3768781	4.28E-07	2.03E-08	0.00E+00	4.48E-07	4.28E-07	2.03E-08	0.00E+00	4.48E-07	1.28E-07	3.64E-09	0.00E+00	1.32E-07	4.85E-08	1.18E-09	0.00E+00	4.97E-08
109	458212.3	3768448	1.84E-06	8.72E-08	0.00E+00	1.93E-06	1.84E-06	8.72E-08	0.00E+00	1.93E-06	5.52E-07	1.57E-08	0.00E+00	5.67E-07	2.09E-07	5.06E-09	0.00E+00	2.14E-07
110	458208.7	3768457	1.84E-06	8.71E-08	0.00E+00	1.93E-06	1.84E-06	8.71E-08	0.00E+00	1.93E-06	5.51E-07	1.57E-08	0.00E+00	5.67E-07	2.09E-07	5.06E-09	0.00E+00	2.14E-07
111	458205.1	3768466	1.84E-06	8.69E-08	0.00E+00	1.92E-06	1.84E-06	8.69E-08	0.00E+00	1.92E-06	5.50E-07	1.56E-08	0.00E+00	5.65E-07	2.08E-07	5.04E-09	0.00E+00	2.13E-07
112	458201.5	3768475	1.83E-06	8.66E-08	0.00E+00	1.92E-06	1.83E-06	8.66E-08	0.00E+00	1.92E-06	5.48E-07	1.56E-08	0.00E+00	5.63E-07	2.08E-07	5.03E-09	0.00E+00	2.13E-07
113	458197.9	3768484	1.82E-06	8.62E-08	0.00E+00	1.91E-06	1.82E-06	8.62E-08	0.00E+00	1.91E-06	5.45E-07	1.55E-08	0.00E+00	5.61E-07	2.07E-07	5.00E-09	0.00E+00	2.12E-07
114	458194.3	3768493	1.81E-06	8.57E-08	0.00E+00	1.89E-06	1.81E-06	8.57E-08	0.00E+00	1.89E-06	5.42E-07	1.54E-08	0.00E+00	5.57E-07	2.05E-07	4.97E-09	0.00E+00	2.10E-07
115	458190.7	3768502	1.80E-06	8.50E-08	0.00E+00	1.88E-06	1.80E-06	8.50E-08	0.00E+00	1.88E-06	5.38E-07	1.53E-08	0.00E+00	5.53E-07	2.04E-07	4.93E-09	0.00E+00	2.09E-07
116	458187.1	3768511	1.78E-06	8.42E-08	0.00E+00	1.86E-06	1.78E-06	8.42E-08	0.00E+00	1.86E-06	5.33E-07	1.51E-08	0.00E+00	5.48E-07	2.02E-07	4.89E-09	0.00E+00	2.07E-07
117	458183.5	3768520	1.76E-06	8.33E-08	0.00E+00	1.84E-06	1.76E-06	8.33E-08	0.00E+00	1.84E-06	5.27E-07	1.50E-08	0.00E+00	5.42E-07	2.00E-07	4.84E-09	0.00E+00	2.05E-07
118	458179.9	3768529	1.74E-06	8.24E-08	0.00E+00	1.82E-06	1.74E-06	8.24E-08	0.00E+00	1.82E-06	5.21E-07	1.48E-08	0.00E+00	5.36E-07	1.97E-07	4.78E-09	0.00E+00	2.02E-07
119	458176.3	3768538	1.72E-06	8.13E-08	0.00E+00	1.80E-06	1.72E-06	8.13E-08	0.00E+00	1.80E-06	5.14E-07	1.46E-08	0.00E+00	5.29E-07	1.95E-07	4.72E-09	0.00E+00	2.00E-07
120	458172.7	3768547	1.69E-06	8.02E-08	0.00E+00	1.77E-06	1.69E-06	8.02E-08	0.00E+00	1.77E-06	5.07E-07	1.44E-08	0.00E+00	5.21E-07	1.92E-07	4.65E-09	0.00E+00	1.97E-07
121	458169.1	3768555	1.67E-06	7.89E-08	0.00E+00	1.75E-06	1.67E-06	7.89E-08	0.00E+00	1.75E-06	4.99E-07	1.42E-08	0.00E+00	5.13E-07	1.89E-07	4.58E-09	0.00E+00	1.94E-07
122	458165.4	3768564	1.64E-06	7.76E-08	0.00E+00	1.72E-06	1.64E-06	7.76E-08	0.00E+00	1.72E-06	4.91E-07	1.40E-08	0.00E+00	5.05E-07	1.86E-07	4.51E-09	0.00E+00	1.91E-07
123	458161.8	3768573	1.61E-06	7.62E-08	0.00E+00	1.69E-06	1.61E-06	7.62E-08	0.00E+00	1.69E-06	4.82E-07	1.37E-08	0.00E+00	4.96E-07	1.83E-07	4.43E-09	0.00E+00	1.87E-07
124	458158.2	3768582	1.58E-06	7.48E-08	0.00E+00	1.65E-06	1.58E-06	7.48E-08	0.00E+00	1.65E-06	4.73E-07	1.34E-08	0.00E+00	4.87E-07	1.79E-07	4.34E-09	0.00E+00	1.84E-07
125	458154.6	3768591	1.55E-06	7.33E-08	0.00E+00	1.62E-06	1.55E-06	7.33E-08	0.00E+00	1.62E-06	4.64E-07	1.32E-08	0.00E+00	4.77E-07	1.76E-07	4.25E-09	0.00E+00	1.80E-07
126	458151	3768600	1.52E-06	7.17E-08	0.00E+00	1.59E-06	1.52E-06	7.17E-08	0.00E+00	1.59E-06	4.54E-07	1.29E-08	0.00E+00	4.67E-07	1.72E-07	4.16E-09	0.00E+00	1.76E-07
127	458147.4	3768609	1.48E-06	7.01E-08	0.00E+00	1.55E-06	1.48E-06	7.01E-08	0.00E+00	1.55E-06	4.44E-07	1.26E-08	0.00E+00	4.56E-07	1.68E-07	4.07E-09	0.00E+00	1.72E-07
128	458143.8	3768618	1.45E-06	6.85E-08	0.00E+00	1.52E-06	1.45E-06	6.85E-08	0.00E+00	1.52E-06	4.33E-07	1.23E-08	0.00E+00	4.46E-07	1.64E-07	3.98E-09	0.00E+00	1.68E-07
129	458140.2	3768627	1.41E-06	6.68E-08	0.00E+00	1.48E-06	1.41E-06	6.68E-08	0.00E+00	1.48E-06	4.23E-07	1.20E-08	0.00E+00	4.35E-07	1.60E-07	3.88E-09	0.00E+00	1.64E-07
130	458093.8	3768669	1.23E-06	5.85E-08	0.00E+00	1.29E-06	1.23E-06	5.85E-08	0.00E+00	1.29E-06	3.70E-07	1.05E-08	0.00E+00	3.80E-07	1.40E-07	3.39E-09	0.00E+00	1.43E-07
131	458084.9	3768672	1.21E-06	5.75E-08	0.00E+00	1.27E-06	1.21E-06	5.75E-08	0.00E+00	1.27E-06	3.64E-07	1.03E-08	0.00E+00	3.74E-07	1.38E-07	3.34E-09	0.00E+00	1.41E-07
132	458076.1	3768676	1.19E-06	5.65E-08	0.00E+00	1.25E-06	1.19E-06	5.65E-08	0.00E+00	1.25E-06	3.58E-07	1.02E-08	0.00E+00	3.68E-07	1.35E-07	3.28E-09	0.00E+00	1.39E-07
133	458067.2	3768680	1.17E-06	5.55E-08	0.00E+00	1.23E-06	1.17E-06	5.55E-08	0.00E+00	1.23E-06	3.51E-07	9.98E-09	0.00E+00	3.61E-07	1.33E-07	3.22E-09	0.00E+00	1.36E-07
134	458058.3	3768683	1.15E-06	5.44E-08	0.00E+00	1.20E-06	1.15E-06	5.44E-08	0.00E+00	1.20E-06	3.44E-07	9.79E-09	0.00E+00	3.54E-07	1.30E-07	3.16E-09	0.00E+00	1.34E-07
135	458049.4	3768687	1.13E-06	5.33E-08	0.00E+00	1.18E-06	1.13E-06	5.33E-08	0.00E+00	1.18E-06	3.37E-07	9.59E-09	0.00E+00	3.47E-07	1.28E-07	3.09E-09	0.00E+00	1.31E-07
136	458040.5	3768691	1.10E-06	5.22E-08	0.00E+00	1.15E-06	1.10E-06	5.22E-08	0.00E+00	1.15E-06	3.30E-07	9.38E-09	0.00E+00	3.39E-07	1.25E-07	3.03E-09	0.00E+00	1.28E-07
137	458031.6	3768695	1.08E-06	5.10E-08	0.00E+00	1.13E-06	1.08E-06	5.10E-08	0.00E+00	1.13E-06	3.23E-07	9.17E-09	0.00E+00	3.32E-07	1.22E-07	2.96E-09	0.00E+00	1.25E-07
138	458022.7	3768698	1.05E-06	4.98E-08	0.00E+00	1.10E-06	1.05E-06	4.98E-08	0.00E+00	1.10E-06	3.15E-07	8.96E-09	0.00E+00	3.24E-07	1.19E-07	2.89E-09	0.00E+00	1.22E-07
139	458013.9	3768702	1.03E-06	4.86E-08	0.00E+00	1.08E-06	1.03E-06	4.86E-08	0.00E+00	1.08E-06	3.08E-07	8.74E-09	0.00E+00	3.16E-07	1.17E-07	2.82E-09	0.00E+00	1.19E-07
140	458005	3768706	1.00E-06	4.74E-08	0.00E+00	1.05E-06	1.00E-06	4.74E-08	0.00E+00	1.05E-06	3.00E-07	8.52E-09	0.00E+00	3.08E-07	1.14E-07	2.75E-09	0.00E+00	1.16E-07
141	457996.1	3768709	9.75E-07	4.62E-08	0.00E+00	1.02E-06	9.75E-07	4.62E-08	0.00E+00	1.02E-06	2.92E-07	8.30E-09	0.00E+00	3.00E-07	1.11E-07	2.68E-09	0.00E+00	1.13E-07
142	457987.2	3768713	9.49E-07	4.49E-08	0.00E+00	9.93E-07	9.49E-07	4.49E-08	0.00E+00	9.93E-07	2.84E-07	8.08E-09	0.00E+00	2.92E-07	1.08E-07	2.61E-09	0.00E+00	1.10E-07
143	457978.3	3768717	9.22E-07	4.37E-08	0.00E+00	9.66E-07	9.22E-07	4.37E-08	0.00E+00	9.66E-07	2.76E-07	7.85E-09	0.00E+00	2.84E-07	1.05E-07	2.53E-09	0.00E+00	1.07E-07
144	457969.4	3768721	8.96E-07	4.24E-08	0.00E+00	9.38E-07	8.96E-07	4.24E-08	0.00E+00	9.38E-07	2.68E-07	7.63E-09	0.00E+00	2.76E-07	1.02E-07	2.46E-09	0.00E+00	1.04E-07
145	457960.5	3768724	8.69E-07	4.12E-08	0.00E+00	9.11E-07	8.69E-07	4.12E-08	0.00E+00	9.11E-07	2.60E-07	7.40E-09	0.00E+00	2.68E-07	9.86E-08	2.39E-09	0.00E+00	1.01E-07
146	457951.6	3768728	8.44E-07	4.00E-08	0.00E+00	8.84E-07	8.44E-07	4.00E-08	0.00E+00	8.84E-07	2.53E-07	7.18E-09	0.00E+00	2.60E-07	9.57E-08	2.32E-09	0.00E+00	9.81E-08
147	457942.8	3768732	8.18E-07	3.87E-08	0.00E+00	8.57E-07	8.18E-07	3.87E-08	0.00E+00	8.57E-07	2.45E-07	6.96E-09	0.00E+00	2.52E-07	9.28E-08	2.25E-09	0.00E+00	9.51E-08
148	457933.9	3768735	7.92E-07	3.75E-08	0.00E+00	8.29E-07	7.92E-07	3.75E-08	0.00E+00	8.29E-07	2.37E-07	6.74E-09	0.00E+00	2.44E-07	8.99E-08	2.18E-09	0.00E+00	9.20E-08
149	457925	3768739	7.67E-07	3.63E-08	0.00E+00	8.04E-07	7.67E-07	3.63E-08	0.00E+00	8.04E-07	2.30E-07	6.53E-09	0.00E+00	2.36E-07	8.71E-08	2.11E-09	0.00E+00	8.92E-08
150	457916.1	3768743	7.44E-07	3.52E-08	0.00E+00	7.79E-07	7.44E-07	3.52E-08	0.00E+00	7.79E-07	2.23E-07	6.33E-09	0.00E+00	2.29E-07	8.44E-08	2.04E-09	0.00E+00	8.65E-08
151	457907.2	3768747	7.20E-07	3.41E-08	0.00E+00	7.55E-07	7.20E-07	3.41E-08	0.00E+00	7.55E-07	2.16E-07	6.13E-09	0.00E+00	2.22E-07	8.17E-08	1.98E-09	0.00E+00	8.37E-08
152	457898.3	3768750	6.97E-07	3.30E-08	0.00E+00	7.30E-07	6.97E-07	3.30E-08	0.00E+00	7.30E-07	2.09E-07	5.93E-09	0.00E+00	2.15E-07	7.91E-08	1.92E-09	0.00E+00	8.10E-08
153	457889.4	3768754	6.74E-07	3.19E-08	0.00E+00	7.06E-07	6.74E-07	3.19E-08	0.00E+00	7.06E-07	2.02E-07	5.74E-09	0.00E+00	2.08E-07	7.65E-08	1.85E-09	0.00E+00	7.83E-08
154	457880.6	3768758	6.52E-07	3.09E-08	0.00E+00	6.83E-07	6.52E-07	3.09E-08	0.00E+00	6.83E-07	1.95E-07	5.55E-09	0.00E+00	2.01E-07	7.40E-08	1.79E-09	0.00E+00	7.58E-08
155	457871.7	3768761	6.31E-07	2.99E-08	0.00E+00	6.61E-07	6.31E-07	2.99E-08	0.00E+00	6.61E-07	1.89E-07	5.37E-09	0.00E+00	1.94E-07	7.16E-08	1.73E-09	0.00E+00	7.33E-08
156	457862.8	3768765	6.10E-07	2.89E-08	0.00E+00	6.39E-07	6.10E-07	2.89E-08	0.00E+00	6.39E-07	1.83E-07	5.19E-09	0.00E+00	1.88E-07	6.92E-08	1.68E-09	0.00E+00	7.09E-08
157	457853.9	3768769	5.88E-07	2.79E-08	0.00E+00	6.16E-07	5.88E-07	2.79E-08	0.00E+00	6.16E-07	1.76E-07	5.01E-09	0.00E+00	1.81E-07	6.67E-08	1.62E-09	0.00E+00	6.84E-08
158	457845	3768773	5.67E-07	2.69E-08	0.00E+00	5.94E-07	5.67E-07	2.69E-08	0.00E+00	5.94E-07	1.70E-07	4.83E-09	0.00E+00	1.75E-07	6.44E-08	1.56E-09	0.00E+00	6.59E-08
159	457836.1	3768776	5.47E-07	2.59E-08	0.00E+00	5.73E-07	5.47E-07	2.59E-08	0.00E+00	5.73E-07	1.64E-07	4.66E-09	0.00E+00	1.69E-07	6.21E-08	1.50E-09	0.00E+00	6.36E-08
160	457827.2	3768780	5.28E-07	2.50E-08	0.00E+00	5.53E-07	5.28E-07	2.50E-08	0.00E+00	5.53E-07	1.58E-07	4.50E-09	0.00E+00	1.63E-07	5.99E-08	1.45E-09	0.00E+00	6.14E-08
161	457818.3	3768784	5.11E-07	2.42E-08	0.00E+00	5.35E-07	5.11E-07	2.42E-08	0.00E+00	5.35E-07	1.53E-07	4.35E-09	0.00E+00	1.57E-07	5.79E-08	1.40E-09	0.00E+00	5.93E-08
162	457809.5	3768787	4.94E-07	2.34E-08	0.00E+00	5.18E-07	4.94E-07	2.34E-08	0.00E+00	5.18E-07	1.48E-07	4.21E-09	0.00E+00	1.52E-07	5.61E-08	1.36E-09	0.00E+00	5.74E-08
163	457800.6	3768791	4.77E-07	2.26E-08	0.00E+00	5.00E-07	4.77E-07	2.26E-08	0.00E+00	5.00E-07	1.43E-07	4.06E-09	0.00E+00	1.47E-07	5.42E-08	1.31E-09	0.00E+00	5.55E-08
164	457791.7	3768795	4.61E-07	2.18E-08	0.00E+00	4.83E-07	4.61E-07	2.18E-08	0.00E+00	4.83E-07	1.38E-07	3.93E-09	0.00E+00	1.42E-07	5.23E-08	1.27E-09	0.00E+00	5.36E-08
165	457782.8	3768799	4.46E-07	2.11E-08	0.00E+00	4.67E-07	4.46E-07	2.11E-08	0.00E+00	4.67E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.06E-08	1.22E-09	0.00E+00	5.18E-08
166	457773.9	3768802	4.31E-07	2.04E-08	0.00E+00	4.51E-07	4.31E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.89E-08	1.18E-09	0.00E+00	5.01E-08
167	457765	3768806	4.17E-07	1.97E-08	0.00E+00	4.36E-07	4.17E-07	1.97E-08	0.00E+00	4.36E-07	1.25E-07	3.55E-09	0.00E+00	1.28E-07	4.73E-08	1.15E-09	0.00E+00	4.84E-08
168	457756.1	3768810	4.03E-07	1.91E-08	0.00E+00	4.22E-07	4.03E-07	1.91E-08	0.00E+00	4.22E-07	1.21E-07	3.43E-09	0.00E+00	1.24E-07	4.57E-08	1.11E-09	0.00E+00	4.69E-08
169	457747.3	3768813	3.90E-07	1.85E-08	0.00E+00	4.09E-07	3.90E-07	1.85E-08	0.00E+00	4.09E-07	1.17E-07	3.32E-09	0.00E+00	1.20E-07	4.43E-08	1.07E-09	0.00E+00	4.54E-08
170	457738.4	3768817	3.79E-07	1.79E-08	0.00E+00	3.96E-07	3.79E-07	1.79E-08	0.00E+00	3.96E-07	1.13E-07	3.22E-09	0.00E+00	1.17E-07	4.29E-08	1.04E-09	0.00E+00	4.40E-08
171	457729.5	3768821	3.67E-07	1.74E-08	0.00E+00	3.84E-07	3.67E-07	1.74E-08	0.00E+00	3.84E-07	1.10E-07	3.12E-09	0.00E+00	1.13E-07	4.16E-08	1.01E-09	0.00E+00	4.26E-08
172	458250.2	3768453	1.70E-06	8.06E-08	0.00E+00	1.78E-06	1.70E-06	8.06E-08	0.00E+00	1.78E-06	5.10E-07	1.45E-08	0.00E+00	5.24E-07	1.93E-07	4.68E-09	0.00E+00	1.98E-07
173	458246.6	3768462	1.70E-06	8.06E-08	0.00E+00	1.78E-06	1.70E-06	8.06E-08	0.00E+00	1.78E-06	5.10E-07	1.45E-08	0.00E+00	5.24E-07	1.93E-07	4.68E-09	0.00E+00	1.98E-07
174	458243.1	3768471	1.70E-06	8.06E-08	0.00E+00	1.78E-06	1.70E-06	8.06E-08	0.00E+00	1.78E-06	5.10E-07	1.45E-08	0.00E+00	5.24E-07	1.93E-07	4.68E-09	0.00E+00	1.98E-07
175	458239.5	3768480	1.70E-06	8.04E-08	0.00E+00	1.78E-06	1.70E-06	8.04E-08	0.00E+00	1.78E-06	5.09E-07	1.45E-08	0.00E+00	5.23E-07	1.93E-07	4.67E-09	0.00E+00	1.97E-07
176	458236	3768488	1.69E-06	8.02E-08	0.00E+00	1.77E-06	1.69E-06	8.02E-08	0.00E+00	1.77E-06	5.07E-07	1.44E-08	0.00E+00	5.22E-07	1.92E-07	4.66E-09	0.00E+00	1.97E-07
177	458232.4	3768497	1.69E-06	7.99E-08	0.00E+00	1.77E-06	1.69E-06	7.99E-08	0.00E+00	1.77E-06	5.05E-07	1.44E-08	0.00E+00	5.20E-07	1.91E-07	4.64E-09	0.00E+00	1.96E-07
178	458228.9	3768506	1.68E-06	7.94E-08	0.00E+00	1.76E-06	1.68E-06	7.94E-08	0.00E+00	1.76E-06	5.03E-07	1.43E-08	0.00E+00	5.17E-07	1.90E-07	4.61E-09	0.00E+00	1.95E-07
179	458225.3	3768515	1.67E-06	7.89E-08	0.00E+00	1.75E-06	1.67E-06	7.89E-08	0.00E+00	1.75E-06	4.99E-07	1.42E-08	0.00E+00	5.13E-07	1.89E-07	4.58E-09	0.00E+00	1.94E-07
180	458221.8	3768524	1.65E-06	7.83E-08	0.00E+00	1.73E-06	1.65E-06	7.83E-08	0.00E+00	1.73E-06	4.95E-07	1.41E-08	0.00E+00	5.09E-07	1.88E-07	4.55E-09	0.00E+00	1.92E-07
181	458218.2	3768532	1.64E-06	7.76E-08	0.00E+00	1.72E-06	1.64E-06	7.76E-08	0.00E+00	1.72E-06	4.91E-07	1.40E-08	0.00E+00	5.05E-07	1.86E-07	4.51E-09	0.00E+00	1.90E-07
182	458214.7	3768541	1.62E-06	7.68E-08	0.00E+00	1.70E-06	1.62E-06	7.68E-08	0.00E+00	1.70E-06	4.86E-07	1.38E-08	0.00E+00	5.00E-07	1.84E-07	4.46E-09	0.00E+00	1.89E-07
183	458211.1	3768550	1.60E-06	7.60E-08	0.00E+00	1.68E-06	1.60E-06	7.60E-08	0.00E+00	1.68E-06	4.81E-07	1.37E-08	0.00E+00	4.94E-07	1.82E-07	4.41E-09	0.00E+00	1.86E-07
184	458207.6	3768559	1.59E-06	7.51E-08	0.00E+00	1.66E-06	1.59E-06	7.51E-08	0.00E+00	1.66E-06	4.75E-07	1.35E-08	0.00E+00	4.88E-07	1.80E-07	4.36E-09	0.00E+00	1.84E-07
185	458204	3768567	1.56E-06	7.41E-08	0.00E+00	1.64E-06	1.56E-06	7.41E-08	0.00E+00	1.64E-06	4.69E-07	1.33E-08	0.00E+00	4.82E-07	1.77E-07	4.30E-09	0.00E+00	1.82E-07
186	458200.5	3768576	1.54E-06	7.30E-08	0.00E+00	1.61E-06	1.54E-06	7.30E-08	0.00E+00	1.61E-06	4.62E-07	1.31E-08	0.00E+00	4.75E-07	1.75E-07	4.24E-09	0.00E+00	1.79E-07
187	458196.9	3768585	1.52E-06	7.19E-08	0.00E+00	1.59E-06	1.52E-06	7.19E-08	0.00E+00	1.59E-06	4.55E-07	1.29E-08	0.00E+00	4.68E-07	1.72E-07	4.17E-09	0.00E+00	1.76E-07
188	458193.3	3768594	1.49E-06	7.07E-08	0.00E+00	1.56E-06	1.49E-06	7.07E-08	0.00E+00	1.56E-06	4.47E-07	1.27E-08	0.00E+00	4.60E-07	1.69E-07	4.10E-09	0.00E+00	1.73E-07
189	458189.8	3768603	1.47E-06	6.94E-08	0.00E+00	1.54E-06	1.47E-06	6.94E-08	0.00E+00	1.54E-06	4.39E-07	1.25E-08	0.00E+00	4.52E-07	1.66E-07	4.03E-09	0.00E+00	1.70E-07
190	458186.2	3768611	1.44E-06	6.81E-08	0.00E+00	1.51E-06	1.44E-06	6.81E-08	0.00E+00	1.51E-06	4.31E-07	1.22E-08	0.00E+00	4.43E-07	1.63E-07	3.95E-09	0.00E+00	1.67E-07
191	458182.7	3768620	1.41E-06	6.68E-08	0.00E+00	1.48E-06	1.41E-06	6.68E-08	0.00E+00	1.48E-06	4.22E-07	1.20E-08	0.00E+00	4.34E-07	1.60E-07	3.88E-09	0.00E+00	1.64E-07
192	458179.1	3768629	1.38E-06	6.54E-08	0.00E+00	1.45E-06	1.38E-06	6.54E-08	0.00E+00	1.45E-06	4.14E-07	1.18E-08	0.00E+00	4.25E-07	1.57E-07	3.80E-09	0.00E+00	1.61E-07
193	458175.6	3768638	1.35E-06	6.40E-08	0.00E+00	1.42E-06	1.35E-06	6.40E-08	0.00E+00	1.42E-06	4.05E-07	1.15E-08	0.00E+00	4.16E-07	1.53E-07	3.71E-09	0.00E+00	1.57E-07
194	458172	3768647	1.32E-06	6.26E-08	0.00E+00	1.38E-06	1.32E-06	6.26E-08	0.00E+00	1.38E-06	3.96E-07	1.12E-08	0.00E+00	4.07E-07	1.50E-07	3.63E-09	0.00E+00	1.54E-07
195	458168.5	3768655	1.29E-06	6.11E-08	0.00E+00	1.35E-06	1.29E-06	6.11E-08	0.00E+00	1.35E-06	3.86E-07	1.10E-08	0.00E+00	3.97E-07	1.46E-07	3.55E-09	0.00E+00	1.50E-07
196	458164.9	3768664	1.26E-06	5.96E-08	0.00E+00	1.32E-06	1.26E-06	5.96E-08	0.00E+00	1.32E-06	3.77E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.46E-09	0.00E+00	1.46E-07
197	458161.4	3768673	1.23E-06	5.81E-08	0.00E+00	1.29E-06	1.23E-06	5.81E-08	0.00E+00	1.29E-06	3.68E-07	1.04E-08	0.00E+00	3.78E-07	1.39E-07	3.37E-09	0.00E+00	1.43E-07
198	458149.1	3768685	1.18E-06	5.59E-08	0.00E+00	1.24E-06	1.18E-06	5.59E-08	0.00E+00	1.24E-06	3.54E-07	1.01E-08	0.00E+00	3.64E-07	1.34E-07	3.25E-09	0.00E+00	1.37E-07
199	458096.6	3768707	1.08E-06	5.11E-08	0.00E+00	1.13E-06	1.08E-06	5.11E-08	0.00E+00	1.13E-06	3.23E-07	9.19E-09	0.00E+00	3.33E-07	1.23E-07	2.97E-09	0.00E+00	1.25E-07
200	458087.8	3768711	1.06E-06	5.02E-08	0.00E+00	1.11E-06	1.06E-06	5.02E-08	0.00E+00	1.11E-06	3.17E-07	9.02E-09	0.00E+00	3.26E-07	1.20E-07	2.91E-09	0.00E+00	1.23E-07
201	458079.1	3768715	1.04E-06	4.92E-08	0.00E+00	1.09E-06	1.04E-06	4.92E-08	0.00E+00	1.09E-06	3.11E-07	8.84E-09	0.00E+00	3.20E-07	1.18E-07	2.85E-09	0.00E+00	1.21E-07
202	458070.3	3768718	1.02E-06	4.82E-08	0.00E+00	1.07E-06	1.02E-06	4.82E-08	0.00E+00	1.07E-06	3.05E-07	8.66E-09	0.00E+00	3.14E-07	1.15E-07	2.80E-09	0.00E+00	1.18E-07
203	458061.6	3768722	9.97E-07	4.72E-08	0.00E+00	1.04E-06	9.97E-07	4.72E-08	0.00E+00	1.04E-06	2.99E-07	8.49E-09	0.00E+00	3.07E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
204	458052.8	3768726	9.75E-07	4.62E-08	0.00E+00	1.02E-06	9.75E-07	4.62E-08	0.00E+00	1.02E-06	2.92E-07	8.30E-09	0.00E+00	3.00E-07	1.11E-07	2.68E-09	0.00E+00	1.13E-07
205	458044.1	3768729	9.54E-07	4.52E-08	0.00E+00	9.99E-07	9.54E-07	4.52E-08	0.00E+00	9.99E-07	2.86E-07	8.12E-09	0.00E+00	2.94E-07	1.08E-07	2.62E-09	0.00E+00	1.11E-07
206	458035.3	3768733	9.31E-07	4.41E-08	0.00E+00	9.75E-07	9.31E-07	4.41E-08	0.00E+00	9.75E-07	2.79E-07	7.93E-09	0.00E+00	2.87E-07	1.06E-07	2.56E-09	0.00E+00	1.08E-07
207	458026.6	3768737	9.08E-07	4.30E-08	0.00E+00	9.51E-07	9.08E-07	4.30E-08	0.00E+00	9.51E-07	2.72E-07	7.73E-09	0.00E+00	2.80E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
208	458017.8	3768740	8.85E-07	4.19E-08	0.00E+00	9.27E-07	8.85E-07	4.19E-08	0.00E+00	9.27E-07	2.65E-07	7.53E-09	0.00E+00	2.73E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
209	458009.1	3768744	8.61E-07	4.08E-08	0.00E+00	9.02E-07	8.61E-07	4.08E-08	0.00E+00	9.02E-07	2.58E-07	7.33E-09	0.00E+00	2.65E-07	9.77E-08	2.37E-09	0.00E+00	1.00E-07
210	458000.3	3768748	8.39E-07	3.97E-08	0.00E+00	8.78E-07	8.39E-07	3.97E-08	0.00E+00	8.78E-07	2.51E-07	7.14E-09	0.00E+00	2.58E-07	9.51E-08	2.30E-09	0.00E+00	9.74E-08
211	457991.6	3768751	8.16E-07	3.86E-08	0.00E+00	8.55E-07	8.16E-07	3.86E-08	0.00E+00	8.55E-07	2.44E-07	6.95E-09	0.00E+00	2.51E-07	9.26E-08	2.24E-09	0.00E+00	9.48E-08
212	457982.8	3768755	7.93E-07	3.76E-08	0.00E+00	8.31E-07	7.93E-07	3.76E-08	0.00E+00	8.31E-07	2.38E-07	6.75E-09	0.00E+00	2.44E-07	9.00E-08	2.18E-09	0.00E+00	9.22E-08
213	457974.1	3768759	7.71E-07	3.65E-08	0.00E+00	8.07E-07	7.71E-07	3.65E-08	0.00E+00	8.07E-07	2.31E-07	6.56E-09	0.00E+00	2.37E-07	8.74E-08	2.12E-09	0.00E+00	8.95E-08
214	457965.3	3768762	7.48E-07	3.54E-08	0.00E+00	7.83E-07	7.48E-07	3.54E-08	0.00E+00	7.83E-07	2.24E-07	6.37E-09	0.00E+00	2.30E-07	8.49E-08	2.06E-09	0.00E+00	8.69E-08
215	457956.6	3768766	7.26E-07	3.44E-08	0.00E+00	7.60E-07	7.26E-07	3.44E-08	0.00E+00	7.60E-07	2.17E-07	6.18E-09	0.00E+00	2.23E-07	8.23E-08	1.99E-09	0.00E+00	8.43E-08
216	457947.8	3768770	7.03E-07	3.33E-08	0.00E+00	7.37E-07	7.03E-07	3.33E-08	0.00E+00	7.37E-07	2.11E-07	5.99E-09	0.00E+00	2.17E-07	7.98E-08	1.93E-09	0.00E+00	8.17E-08
217	457939.1	3768773	6.82E-07	3.23E-08	0.00E+00	7.14E-07	6.82E-07	3.23E-08	0.00E+00	7.14E-07	2.04E-07	5.80E-09	0.00E+00	2.10E-07	7.73E-08	1.87E-09	0.00E+00	7.92E-08

218	457930.3	3768777	6.60E-07	3.13E-08	0.00E+00	6.92E-07	6.60E-07	3.13E-08	0.00E+00	6.92E-07	1.98E-07	5.62E-09	0.00E+00	2.03E-07	7.49E-08	1.81E-09	0.00E+00	7.67E-08
219	457921.6	3768781	6.39E-07	3.03E-08	0.00E+00	6.70E-07	6.39E-07	3.03E-08	0.00E+00	6.70E-07	1.92E-07	5.44E-09	0.00E+00	1.97E-07	7.25E-08	1.76E-09	0.00E+00	7.43E-08
220	457912.8	3768784	6.19E-07	2.93E-08	0.00E+00	6.48E-07	6.19E-07	2.93E-08	0.00E+00	6.48E-07	1.85E-07	5.27E-09	0.00E+00	1.91E-07	7.02E-08	1.70E-09	0.00E+00	7.19E-08
221	457904.1	3768788	5.99E-07	2.84E-08	0.00E+00	6.27E-07	5.99E-07	2.84E-08	0.00E+00	6.27E-07	1.79E-07	5.10E-09	0.00E+00	1.85E-07	6.80E-08	1.65E-09	0.00E+00	6.96E-08
222	457895.3	3768792	5.80E-07	2.74E-08	0.00E+00	6.07E-07	5.80E-07	2.74E-08	0.00E+00	6.07E-07	1.74E-07	4.93E-09	0.00E+00	1.79E-07	6.58E-08	1.59E-09	0.00E+00	6.74E-08
223	457886.6	3768795	5.61E-07	2.65E-08	0.00E+00	5.87E-07	5.61E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.52E-08
224	457877.8	3768799	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.62E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
225	457869.1	3768803	5.24E-07	2.48E-08	0.00E+00	5.49E-07	5.24E-07	2.48E-08	0.00E+00	5.49E-07	1.57E-07	4.46E-09	0.00E+00	1.62E-07	5.95E-08	1.44E-09	0.00E+00	6.09E-08
226	457860.3	3768806	5.07E-07	2.40E-08	0.00E+00	5.31E-07	5.07E-07	2.40E-08	0.00E+00	5.31E-07	1.52E-07	4.32E-09	0.00E+00	1.56E-07	5.75E-08	1.39E-09	0.00E+00	5.89E-08
227	457851.6	3768810	4.91E-07	2.32E-08	0.00E+00	5.14E-07	4.91E-07	2.32E-08	0.00E+00	5.14E-07	1.47E-07	4.18E-09	0.00E+00	1.51E-07	5.56E-08	1.35E-09	0.00E+00	5.70E-08
228	457842.8	3768813	4.74E-07	2.25E-08	0.00E+00	4.97E-07	4.74E-07	2.25E-08	0.00E+00	4.97E-07	1.42E-07	4.04E-09	0.00E+00	1.46E-07	5.38E-08	1.30E-09	0.00E+00	5.51E-08
229	457834.1	3768817	4.59E-07	2.17E-08	0.00E+00	4.81E-07	4.59E-07	2.17E-08	0.00E+00	4.81E-07	1.38E-07	3.91E-09	0.00E+00	1.41E-07	5.21E-08	1.26E-09	0.00E+00	5.34E-08
230	457825.3	3768821	4.45E-07	2.10E-08	0.00E+00	4.66E-07	4.45E-07	2.10E-08	0.00E+00	4.66E-07	1.33E-07	3.78E-09	0.00E+00	1.37E-07	5.04E-08	1.22E-09	0.00E+00	5.17E-08
231	457816.6	3768824	4.30E-07	2.04E-08	0.00E+00	4.50E-07	4.30E-07	2.04E-08	0.00E+00	4.50E-07	1.29E-07	3.66E-09	0.00E+00	1.32E-07	4.88E-08	1.18E-09	0.00E+00	5.00E-08
232	457807.8	3768828	4.16E-07	1.97E-08	0.00E+00	4.36E-07	4.16E-07	1.97E-08	0.00E+00	4.36E-07	1.25E-07	3.54E-09	0.00E+00	1.28E-07	4.72E-08	1.14E-09	0.00E+00	4.84E-08
233	457799.1	3768832	4.04E-07	1.91E-08	0.00E+00	4.23E-07	4.04E-07	1.91E-08	0.00E+00	4.23E-07	1.21E-07	3.44E-09	0.00E+00	1.25E-07	4.59E-08	1.11E-09	0.00E+00	4.70E-08
234	457790.3	3768835	3.92E-07	1.86E-08	0.00E+00	4.11E-07	3.92E-07	1.86E-08	0.00E+00	4.11E-07	1.18E-07	3.34E-09	0.00E+00	1.21E-07	4.45E-08	1.08E-09	0.00E+00	4.56E-08
235	457781.6	3768839	3.81E-07	1.80E-08	0.00E+00	3.99E-07	3.81E-07	1.80E-08	0.00E+00	3.99E-07	1.14E-07	3.24E-09	0.00E+00	1.17E-07	4.32E-08	1.05E-09	0.00E+00	4.42E-08
236	457772.8	3768843	3.69E-07	1.75E-08	0.00E+00	3.87E-07	3.69E-07	1.75E-08	0.00E+00	3.87E-07	1.11E-07	3.14E-09	0.00E+00	1.14E-07	4.19E-08	1.01E-09	0.00E+00	4.29E-08
237	457764.1	3768846	3.59E-07	1.70E-08	0.00E+00	3.75E-07	3.59E-07	1.70E-08	0.00E+00	3.75E-07	1.07E-07	3.05E-09	0.00E+00	1.10E-07	4.07E-08	9.85E-10	0.00E+00	4.17E-08
238	457755.3	3768850	3.49E-07	1.65E-08	0.00E+00	3.65E-07	3.49E-07	1.65E-08	0.00E+00	3.65E-07	1.04E-07	2.97E-09	0.00E+00	1.07E-07	3.95E-08	9.58E-10	0.00E+00	4.05E-08
239	457746.6	3768854	3.39E-07	1.60E-08	0.00E+00	3.55E-07	3.39E-07	1.60E-08	0.00E+00	3.55E-07	1.02E-07	2.89E-09	0.00E+00	1.04E-07	3.85E-08	9.32E-10	0.00E+00	3.94E-08
240	457737.8	3768857	3.29E-07	1.56E-08	0.00E+00	3.45E-07	3.29E-07	1.56E-08	0.00E+00	3.45E-07	9.86E-08	2.80E-09	0.00E+00	1.01E-07	3.73E-08	9.05E-10	0.00E+00	3.82E-08
241	457729.1	3768861	3.20E-07	1.51E-08	0.00E+00	3.35E-07	3.20E-07	1.51E-08	0.00E+00	3.35E-07	9.58E-08	2.72E-09	0.00E+00	9.85E-08	3.63E-08	8.79E-10	0.00E+00	3.72E-08
242	458289.8	3768454	1.57E-06	7.44E-08	0.00E+00	1.64E-06	1.57E-06	7.44E-08	0.00E+00	1.64E-06	4.70E-07	1.34E-08	0.00E+00	4.84E-07	1.78E-07	4.32E-09	0.00E+00	1.82E-07
243	458286.2	3768463	1.58E-06	7.46E-08	0.00E+00	1.65E-06	1.58E-06	7.46E-08	0.00E+00	1.65E-06	4.72E-07	1.34E-08	0.00E+00	4.85E-07	1.79E-07	4.33E-09	0.00E+00	1.83E-07
244	458282.6	3768471	1.58E-06	7.47E-08	0.00E+00	1.65E-06	1.58E-06	7.47E-08	0.00E+00	1.65E-06	4.73E-07	1.34E-08	0.00E+00	4.86E-07	1.79E-07	4.34E-09	0.00E+00	1.83E-07
245	458279	3768480	1.58E-06	7.47E-08	0.00E+00	1.65E-06	1.58E-06	7.47E-08	0.00E+00	1.65E-06	4.73E-07	1.34E-08	0.00E+00	4.86E-07	1.79E-07	4.34E-09	0.00E+00	1.83E-07
246	458275.5	3768489	1.58E-06	7.47E-08	0.00E+00	1.65E-06	1.58E-06	7.47E-08	0.00E+00	1.65E-06	4.72E-07	1.34E-08	0.00E+00	4.86E-07	1.79E-07	4.33E-09	0.00E+00	1.83E-07
247	458271.9	3768498	1.57E-06	7.45E-08	0.00E+00	1.65E-06	1.57E-06	7.45E-08	0.00E+00	1.65E-06	4.72E-07	1.34E-08	0.00E+00	4.85E-07	1.79E-07	4.33E-09	0.00E+00	1.83E-07
248	458268.3	3768507	1.57E-06	7.43E-08	0.00E+00	1.64E-06	1.57E-06	7.43E-08	0.00E+00	1.64E-06	4.70E-07	1.34E-08	0.00E+00	4.84E-07	1.78E-07	4.31E-09	0.00E+00	1.82E-07
249	458264.8	3768516	1.56E-06	7.40E-08	0.00E+00	1.64E-06	1.56E-06	7.40E-08	0.00E+00	1.64E-06	4.68E-07	1.33E-08	0.00E+00	4.82E-07	1.77E-07	4.30E-09	0.00E+00	1.82E-07
250	458261.2	3768524	1.56E-06	7.36E-08	0.00E+00	1.63E-06	1.56E-06	7.36E-08	0.00E+00	1.63E-06	4.66E-07	1.32E-08	0.00E+00	4.79E-07	1.76E-07	4.27E-09	0.00E+00	1.81E-07
251	458257.6	3768533	1.55E-06	7.32E-08	0.00E+00	1.62E-06	1.55E-06	7.32E-08	0.00E+00	1.62E-06	4.63E-07	1.32E-08	0.00E+00	4.76E-07	1.75E-07	4.25E-09	0.00E+00	1.80E-07
252	458254.1	3768542	1.53E-06	7.27E-08	0.00E+00	1.61E-06	1.53E-06	7.27E-08	0.00E+00	1.61E-06	4.60E-07	1.31E-08	0.00E+00	4.73E-07	1.74E-07	4.22E-09	0.00E+00	1.78E-07
253	458250.5	3768551	1.52E-06	7.21E-08	0.00E+00	1.59E-06	1.52E-06	7.21E-08	0.00E+00	1.59E-06	4.56E-07	1.30E-08	0.00E+00	4.69E-07	1.73E-07	4.18E-09	0.00E+00	1.77E-07
254	458246.9	3768560	1.51E-06	7.14E-08	0.00E+00	1.58E-06	1.51E-06	7.14E-08	0.00E+00	1.58E-06	4.52E-07	1.28E-08	0.00E+00	4.64E-07	1.71E-07	4.14E-09	0.00E+00	1.75E-07
255	458243.4	3768569	1.49E-06	7.06E-08	0.00E+00	1.56E-06	1.49E-06	7.06E-08	0.00E+00	1.56E-06	4.47E-07	1.27E-08	0.00E+00	4.59E-07	1.69E-07	4.10E-09	0.00E+00	1.73E-07
256	458239.8	3768577	1.47E-06	6.98E-08	0.00E+00	1.54E-06	1.47E-06	6.98E-08	0.00E+00	1.54E-06	4.42E-07	1.26E-08	0.00E+00	4.54E-07	1.67E-07	4.05E-09	0.00E+00	1.71E-07
257	458236.2	3768586	1.46E-06	6.89E-08	0.00E+00	1.52E-06	1.46E-06	6.89E-08	0.00E+00	1.52E-06	4.36E-07	1.24E-08	0.00E+00	4.48E-07	1.65E-07	4.00E-09	0.00E+00	1.69E-07
258	458232.7	3768595	1.44E-06	6.80E-08	0.00E+00	1.50E-06	1.44E-06	6.80E-08	0.00E+00	1.50E-06	4.30E-07	1.22E-08	0.00E+00	4.42E-07	1.63E-07	3.95E-09	0.00E+00	1.67E-07
259	458229.1	3768604	1.41E-06	6.70E-08	0.00E+00	1.48E-06	1.41E-06	6.70E-08	0.00E+00	1.48E-06	4.24E-07	1.20E-08	0.00E+00	4.36E-07	1.61E-07	3.89E-09	0.00E+00	1.64E-07
260	458225.5	3768613	1.39E-06	6.59E-08	0.00E+00	1.46E-06	1.39E-06	6.59E-08	0.00E+00	1.46E-06	4.17E-07	1.19E-08	0.00E+00	4.29E-07	1.58E-07	3.83E-09	0.00E+00	1.62E-07
261	458222	3768622	1.37E-06	6.48E-08	0.00E+00	1.43E-06	1.37E-06	6.48E-08	0.00E+00	1.43E-06	4.10E-07	1.17E-08	0.00E+00	4.22E-07	1.55E-07	3.76E-09	0.00E+00	1.59E-07
262	458218.4	3768630	1.35E-06	6.37E-08	0.00E+00	1.41E-06	1.35E-06	6.37E-08	0.00E+00	1.41E-06	4.03E-07	1.15E-08	0.00E+00	4.14E-07	1.53E-07	3.70E-09	0.00E+00	1.56E-07
263	458214.8	3768639	1.32E-06	6.25E-08	0.00E+00	1.38E-06	1.32E-06	6.25E-08	0.00E+00	1.38E-06	3.95E-07	1.12E-08	0.00E+00	4.07E-07	1.50E-07	3.63E-09	0.00E+00	1.53E-07
264	458211.3	3768648	1.29E-06	6.13E-08	0.00E+00	1.36E-06	1.29E-06	6.13E-08	0.00E+00	1.36E-06	3.88E-07	1.10E-08	0.00E+00	3.99E-07	1.47E-07	3.56E-09	0.00E+00	1.50E-07
265	458207.7	3768657	1.27E-06	6.00E-08	0.00E+00	1.33E-06	1.27E-06	6.00E-08	0.00E+00	1.33E-06	3.80E-07	1.08E-08	0.00E+00	3.91E-07	1.44E-07	3.48E-09	0.00E+00	1.47E-07
266	458204.1	3768666	1.24E-06	5.87E-08	0.00E+00	1.30E-06	1.24E-06	5.87E-08	0.00E+00	1.30E-06	3.72E-07	1.06E-08	0.00E+00	3.82E-07	1.41E-07	3.41E-09	0.00E+00	1.44E-07
267	458200.6	3768675	1.21E-06	5.74E-08	0.00E+00	1.27E-06	1.21E-06	5.74E-08	0.00E+00	1.27E-06	3.63E-07	1.03E-08	0.00E+00	3.74E-07	1.38E-07	3.33E-09	0.00E+00	1.41E-07
268	458197	3768683	1.18E-06	5.61E-08	0.00E+00	1.24E-06	1.18E-06	5.61E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.65E-07	1.34E-07	3.26E-09	0.00E+00	1.38E-07
269	458193.4	3768692	1.16E-06	5.48E-08	0.00E+00	1.21E-06	1.16E-06	5.48E-08	0.00E+00	1.21E-06	3.46E-07	9.85E-09	0.00E+00	3.56E-07	1.31E-07	3.18E-09	0.00E+00	1.34E-07
270	458189.9	3768701	1.13E-06	5.34E-08	0.00E+00	1.18E-06	1.13E-06	5.34E-08	0.00E+00	1.18E-06	3.38E-07	9.60E-09	0.00E+00	3.47E-07	1.28E-07	3.10E-09	0.00E+00	1.31E-07
271	458177.5	3768714	1.09E-06	5.14E-08	0.00E+00	1.14E-06	1.09E-06	5.14E-08	0.00E+00	1.14E-06	3.25E-07	9.25E-09	0.00E+00	3.35E-07	1.23E-07	2.99E-09	0.00E+00	1.26E-07
272	458168.7	3768717	1.07E-06	5.08E-08	0.00E+00	1.12E-06	1.07E-06	5.08E-08	0.00E+00	1.12E-06	3.21E-07	9.13E-09	0.00E+00	3.30E-07	1.22E-07	2.95E-09	0.00E+00	1.25E-07
273	458159.9	3768721	1.06E-06	5.01E-08	0.00E+00	1.11E-06	1.06E-06	5.01E-08	0.00E+00	1.11E-06	3.17E-07	9.01E-09	0.00E+00	3.26E-07	1.20E-07	2.91E-09	0.00E+00	1.23E-07
274	458151.1	3768725	1.04E-06	4.94E-08	0.00E+00	1.09E-06	1.04E-06	4.94E-08	0.00E+00	1.09E-06	3.12E-07	8.88E-09	0.00E+00	3.21E-07	1.18E-07	2.87E-09	0.00E+00	1.21E-07
275	458142.3	3768728	1.03E-06	4.86E-08	0.00E+00	1.08E-06	1.03E-06	4.86E-08	0.00E+00	1.08E-06	3.08E-07	8.74E-09	0.00E+00	3.16E-07	1.17E-07	2.82E-09	0.00E+00	1.19E-07
276	458098.4	3768747	9.38E-07	4.44E-08	0.00E+00	9.82E-07	9.38E-07	4.44E-08	0.00E+00	9.82E-07	2.81E-07	7.98E-09	0.00E+00	2.89E-07	1.06E-07	2.58E-09	0.00E+00	1.09E-07
277	458089.6	3768750	9.18E-07	4.35E-08	0.00E+00	9.62E-07	9.18E-07	4.35E-08	0.00E+00	9.62E-07	2.75E-07	7.82E-09	0.00E+00	2.83E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
278	458080.8	3768754	8.99E-07	4.25E-08	0.00E+00	9.41E-07	8.99E-07	4.25E-08	0.00E+00	9.41E-07	2.69E-07	7.65E-09	0.00E+00	2.77E-07	1.02E-07	2.47E-09	0.00E+00	1.04E-07
279	458072	3768758	8.79E-07	4.16E-08	0.00E+00	9.21E-07	8.79E-07	4.16E-08	0.00E+00	9.21E-07	2.63E-07	7.48E-09	0.00E+00	2.71E-07	9.97E-08	2.42E-09	0.00E+00	1.02E-07
280	458063.2	3768761	8.59E-07	4.07E-08	0.00E+00	8.99E-07	8.59E-07	4.07E-08	0.00E+00	8.99E-07	2.57E-07	7.31E-09	0.00E+00	2.65E-07	9.74E-08	2.36E-09	0.00E+00	9.98E-08
281	458054.4	3768765	8.38E-07	3.97E-08	0.00E+00	8.78E-07	8.38E-07	3.97E-08	0.00E+00	8.78E-07	2.51E-07	7.13E-09	0.00E+00	2.58E-07	9.51E-08	2.30E-09	0.00E+00	9.74E-08
282	458045.7	3768769	8.17E-07	3.87E-08	0.00E+00	8.56E-07	8.17E-07	3.87E-08	0.00E+00	8.56E-07	2.45E-07	6.96E-09	0.00E+00	2.52E-07	9.27E-08	2.25E-09	0.00E+00	9.50E-08
283	458036.9	3768772	7.96E-07	3.77E-08	0.00E+00	8.34E-07	7.96E-07	3.77E-08	0.00E+00	8.34E-07	2.39E-07	6.78E-09	0.00E+00	2.45E-07	9.04E-08	2.19E-09	0.00E+00	9.25E-08
284	458028.1	3768776	7.76E-07	3.67E-08	0.00E+00	8.12E-07	7.76E-07	3.67E-08	0.00E+00	8.12E-07	2.32E-07	6.60E-09	0.00E+00	2.39E-07	8.80E-08	2.13E-09	0.00E+00	9.01E-08
285	458019.3	3768780	7.55E-07	3.57E-08	0.00E+00	7.91E-07	7.55E-07	3.57E-08	0.00E+00	7.91E-07	2.26E-07	6.43E-09	0.00E+00	2.33E-07	8.57E-08	2.07E-09	0.00E+00	8.77E-08
286	458010.5	3768783	7.35E-07	3.48E-08	0.00E+00	7.70E-07	7.35E-07	3.48E-08	0.00E+00	7.70E-07	2.20E-07	6.26E-09	0.00E+00	2.26E-07	8.34E-08	2.02E-09	0.00E+00	8.54E-08
287	458001.7	3768787	7.15E-07	3.38E-08	0.00E+00	7.48E-07	7.15E-07	3.38E-08	0.00E+00	7.48E-07	2.14E-07	6.08E-09	0.00E+00	2.20E-07	8.11E-08	1.96E-09	0.00E+00	8.30E-08
288	457992.9	3768791	6.94E-07	3.29E-08	0.00E+00	7.27E-07	6.94E-07	3.29E-08	0.00E+00	7.27E-07	2.08E-07	5.91E-09	0.00E+00	2.14E-07	7.88E-08	1.91E-09	0.00E+00	8.07E-08
289	457984.1	3768794	6.74E-07	3.19E-08	0.00E+00	7.06E-07	6.74E-07	3.19E-08	0.00E+00	7.06E-07	2.02E-07	5.74E-09	0.00E+00	2.08E-07	7.65E-08	1.85E-09	0.00E+00	7.84E-08
290	457975.3	3768798	6.56E-07	3.10E-08	0.00E+00	6.87E-07	6.56E-07	3.10E-08	0.00E+00	6.87E-07	1.96E-07	5.58E-09	0.00E+00	2.02E-07	7.44E-08	1.80E-09	0.00E+00	7.62E-08
291	457966.5	3768802	6.37E-07	3.02E-08	0.00E+00	6.67E-07	6.37E-07	3.02E-08	0.00E+00	6.67E-07	1.91E-07	5.42E-09	0.00E+00	1.96E-07	7.23E-08	1.75E-09	0.00E+00	7.40E-08
292	457957.8	3768805	6.18E-07	2.93E-08	0.00E+00	6.47E-07	6.18E-07	2.93E-08	0.00E+00	6.47E-07	1.85E-07	5.26E-09	0.00E+00	1.90E-07	7.01E-08	1.70E-09	0.00E+00	7.18E-08
293	457949	3768809	5.98E-07	2.83E-08	0.00E+00	6.27E-07	5.98E-07	2.83E-08	0.00E+00	6.27E-07	1.79E-07	5.10E-09	0.00E+00	1.84E-07	6.79E-08	1.64E-09	0.00E+00	6.95E-08
294	457940.2	3768813	5.79E-07	2.74E-08	0.00E+00	6.07E-07	5.79E-07	2.74E-08	0.00E+00	6.07E-07	1.74E-07	4.93E-09	0.00E+00	1.78E-07	6.57E-08	1.59E-09	0.00E+00	6.73E-08
295	457931.4	3768816	5.61E-07	2.65E-08	0.00E+00	5.87E-07	5.61E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.51E-08
296	457922.6	3768820	5.43E-07	2.57E-08	0.00E+00	5.69E-07	5.43E-07	2.57E-08	0.00E+00	5.69E-07	1.63E-07	4.62E-09	0.00E+00	1.67E-07	6.16E-08	1.49E-09	0.00E+00	6.31E-08
297	457913.8	3768824	5.27E-07	2.49E-08	0.00E+00	5.52E-07	5.27E-07	2.49E-08	0.00E+00	5.52E-07	1.58E-07	4.49E-09	0.00E+00	1.62E-07	5.98E-08	1.45E-09	0.00E+00	6.12E-08
298	457905	3768827	5.11E-07	2.42E-08	0.00E+00	5.36E-07	5.11E-07	2.42E-08	0.00E+00	5.36E-07	1.53E-07	4.35E-09	0.00E+00	1.58E-07	5.80E-08	1.41E-09	0.00E+00	5.94E-08
299	457896.2	3768831	4.95E-07	2.35E-08	0.00E+00	5.19E-07	4.95E-07	2.35E-08	0.00E+00	5.19E-07	1.48E-07	4.22E-09	0.00E+00	1.53E-07	5.62E-08	1.36E-09	0.00E+00	5.76E-08
300	457887.4	3768835	4.80E-07	2.27E-08	0.00E+00	5.02E-07	4.80E-07	2.27E-08	0.00E+00	5.02E-07	1.44E-07	4.08E-09	0.00E+00	1.48E-07	5.44E-08	1.32E-09	0.00E+00	5.57E-08
301	457878.7	3768839	4.64E-07	2.20E-08	0.00E+00	4.86E-07	4.64E-07	2.20E-08	0.00E+00	4.86E-07	1.39E-07	3.95E-09	0.00E+00	1.43E-07	5.27E-08	1.28E-09	0.00E+00	5.40E-08
302	457869.9	3768842	4.50E-07	2.13E-08	0.00E+00	4.72E-07	4.50E-07	2.13E-08	0.00E+00	4.72E-07	1.35E-07	3.83E-09	0.00E+00	1.39E-07	5.11E-08	1.24E-09	0.00E+00	5.23E-08
303	457861.1	3768846	4.36E-07	2.06E-08	0.00E+00	4.57E-07	4.36E-07	2.06E-08	0.00E+00	4.57E-07	1.31E-07	3.71E-09	0.00E+00	1.34E-07	4.95E-08	1.20E-09	0.00E+00	5.07E-08
304	457852.3	3768850	4.22E-07	2.00E-08	0.00E+00	4.42E-07	4.22E-07	2.00E-08	0.00E+00	4.42E-07	1.26E-07	3.60E-09	0.00E+00	1.30E-07	4.79E-08	1.16E-09	0.00E+00	4.91E-08
305	457843.5	3768853	4.09E-07	1.94E-08	0.00E+00	4.29E-07	4.09E-07	1.94E-08	0.00E+00	4.29E-07	1.23E-07	3.48E-09	0.00E+00	1.26E-07	4.64E-08	1.12E-09	0.00E+00	4.75E-08
306	457834.7	3768857	3.96E-07	1.88E-08	0.00E+00	4.15E-07	3.96E-07	1.88E-08	0.00E+00	4.15E-07	1.19E-07	3.37E-09	0.00E+00	1.22E-07	4.50E-08	1.09E-09	0.00E+00	4.61E-08
307	457825.9	3768861	3.84E-07	1.82E-08	0.00E+00	4.02E-07	3.84E-07	1.82E-08	0.00E+00	4.02E-07	1.15E-07	3.27E-09	0.00E+00	1.18E-07	4.36E-08	1.06E-09	0.00E+00	4.46E-08
308	457817.1	3768864	3.73E-07	1.76E-08	0.00E+00	3.90E-07	3.73E-07	1.76E-08	0.00E+00	3.90E-07	1.12E-07	3.17E-09	0.00E+00	1.15E-07	4.23E-08	1.02E-09	0.00E+00	4.33E-08
309	457808.3	3768868	3.61E-07	1.71E-08	0.00E+00	3.78E-07	3.61E-07	1.71E-08	0.00E+00	3.78E-07	1.08E-07	3.08E-09	0.00E+00	1.11E-07	4.10E-08	9.93E-10	0.00E+00	4.20E-08
310	457799.5	3768872	3.51E-07	1.66E-08	0.00E+00	3.67E-07	3.51E-07	1.66E-08	0.00E+00	3.67E-07	1.05E-07	2.98E-09	0.00E+00	1.08E-07	3.98E-08	9.64E-10	0.00E+00	4.07E-08
311	457790.8	3768875	3.40E-07	1.61E-08	0.00E+00	3.56E-07	3.40E-07	1.61E-08	0.00E+00	3.56E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.86E-08	9.35E-10	0.00E+00	3.95E-08
312	457782	3768879	3.31E-07	1.56E-08	0.00E+00	3.46E-07	3.31E-07	1.56E-08	0.00E+00	3.46E-07	9.90E-08	2.81E-09	0.00E+00	1.02E-07	3.75E-08	9.08E-10	0.00E+00	3.84E-08
313	457773.2	3768883	3.21E-07	1.52E-08	0.00E+00	3.36E-07	3.21E-07	1.52E-08	0.00E+00	3.36E-07	9.62E-08	2.73E-09	0.00E+00	9.89E-08	3.64E-08	8.83E-10	0.00E+00	3.73E-08
314	457764.4	3768886	3.12E-07	1.48E-08	0.00E+00	3.27E-07	3.12E-07	1.48E-08	0.00E+00	3.27E-07	9.35E-08	2.66E-09	0.00E+00	9.62E-08	3.54E-08	8.58E-10	0.00E+00	3.63E-08
315	457755.6	3768890	3.04E-07	1.44E-08	0.00E+00	3.18E-07	3.04E-07	1.44E-08	0.00E+00	3.18E-07	9.09E-08	2.58E-09	0.00E+00	9.35E-08	3.44E-08	8.34E-10	0.00E+00	3.53E-08
316	457746.8	3768894	2.96E-07	1.40E-08	0.00E+00	3.10E-07	2.96E-07	1.40E-08	0.00E+00	3.10E-07	8.85E-08	2.52E-09	0.00E+00	9.11E-08	3.35E-08	8.12E-10	0.00E+00	3.44E-08
317	457738	3768897	2.88E-07	1.36E-08	0.00E+00	3.02E-07	2.88E-07	1.36E-08	0.00E+00	3.02E-07	8.63E-08	2.45E-09	0.00E+00	8.88E-08	3.27E-08	7.92E-10	0.00E+00	3.35E-08
318	457729.2	3768901	2.81E-07	1.33E-08	0.00E+00	2.94E-07	2.81E-07	1.33E-08	0.00E+00	2.94E-07	8.42E-08	2.39E-09	0.00E+00	8.66E-08	3.19E-08	7.72E-10	0.00E+00	3.27E-08
319	458329.4	3768454	1.45E-06	6.87E-08	0.00E+00	1.52E-06	1.45E-06	6.87E-08	0.00E+00	1.52E-06	4.35E-07	1.24E-08	0.00E+00	4.47E-07	1.65E-07	3.99E-09	0.00E+00	1.69E-07
320	458325.8	3768463	1.46E-06	6.90E-08	0.00E+00	1.53E-06	1.46E-06	6.90E-08	0.00E+00	1.53E-06	4.37E-07	1.24E-08	0.00E+00	4.49E-07	1.65E-07	4.01E-09	0.00E+00	1.69E-07
321	458322.2	3768472	1.46E-06	6.93E-08	0.00E+00	1.53E-06	1.46E-06	6.93E-08	0.00E+00	1.53E-06	4.38E-07	1.25E-08	0.00E+00	4.51E-07	1.66E-07	4.02E-09	0.00E+00	1.70E-07
322	458318.6	3768481	1.47E-06	6.94E-08	0.00E+00	1.54E-06	1.47E-06	6.94E-08	0.00E+00	1.54E-06	4.39E-07	1.25E-08	0.00E+00	4.52E-07	1.66E-07	4.03E-09	0.00E+00	1.70E-07
323	458315	3768490	1.47E-06	6.95E-08	0.00E+00	1.54E-06	1.47E-06	6.95E-08	0.00E+00	1.54E-06	4.40E-07	1.25E-08	0.00E+00	4.52E-07	1.67E-07	4.03E-09	0.00E+00	1.71E-07
324	458311.5	3768499	1.47E-06	6.95E-08	0.00E+00	1.54E-06	1.47E-06	6.95E-08	0.00E+00	1.54E-06	4.40E-07	1.25E-08	0.00E+00	4.52E-07	1.67E-07	4.03E-09	0.00E+00	1.71E-07
325	458307.9	3768507	1.47E-06	6.94E-08	0.00E+00	1.54E-06	1.47E-06	6.94E-08	0.00E+00	1.54E-06	4.39E-07	1.25E-08	0.00E+00	4.52E-07	1.66E-07	4.03E-09	0.00E+00	1.70E-07
326	458304.3	3768516	1.46E-06	6.93E-08	0.00E+00	1.53E-06	1.46E-06	6.93E-08	0.00E+00	1.53E-06	4.38E-07	1.25E-08	0.00E+00	4.51E-07	1.66E-07	4.02E-09	0.00E+00	1.70E-07
327	458300.7	3768525	1.46E-06	6.91E-08	0.00E+00	1.53E-06	1.46E-06	6.91E-08	0.00E+00	1.53E-06	4.37E-07	1.24E-08	0.00E+00	4.50E-07	1.66E-07	4.01E-09	0.00E+00	1.70E-07

328	458297.1	3768534	1.45E-06	6.89E-08	0.00E+00	1.52E-06	1.45E-06	6.89E-08	0.00E+00	1.52E-06	4.36E-07	1.24E-08	0.00E+00	4.48E-07	1.65E-07	4.00E-09	0.00E+00	1.69E-07
329	458293.6	3768543	1.45E-06	6.85E-08	0.00E+00	1.52E-06	1.45E-06	6.85E-08	0.00E+00	1.52E-06	4.34E-07	1.23E-08	0.00E+00	4.46E-07	1.64E-07	3.98E-09	0.00E+00	1.68E-07
330	458290	3768552	1.44E-06	6.81E-08	0.00E+00	1.51E-06	1.44E-06	6.81E-08	0.00E+00	1.51E-06	4.31E-07	1.23E-08	0.00E+00	4.43E-07	1.63E-07	3.95E-09	0.00E+00	1.67E-07
331	458286.4	3768561	1.43E-06	6.77E-08	0.00E+00	1.50E-06	1.43E-06	6.77E-08	0.00E+00	1.50E-06	4.28E-07	1.22E-08	0.00E+00	4.40E-07	1.62E-07	3.93E-09	0.00E+00	1.66E-07
332	458282.8	3768570	1.42E-06	6.71E-08	0.00E+00	1.48E-06	1.42E-06	6.71E-08	0.00E+00	1.48E-06	4.25E-07	1.21E-08	0.00E+00	4.37E-07	1.61E-07	3.90E-09	0.00E+00	1.65E-07
333	458279.2	3768578	1.4E-06	6.65E-08	0.00E+00	1.47E-06	1.40E-06	6.65E-08	0.00E+00	1.47E-06	4.21E-07	1.20E-08	0.00E+00	4.33E-07	1.59E-07	3.86E-09	0.00E+00	1.63E-07
334	458275.6	3768587	1.39E-06	6.58E-08	0.00E+00	1.46E-06	1.39E-06	6.58E-08	0.00E+00	1.46E-06	4.17E-07	1.18E-08	0.00E+00	4.28E-07	1.58E-07	3.82E-09	0.00E+00	1.62E-07
335	458272.1	3768596	1.38E-06	6.51E-08	0.00E+00	1.44E-06	1.38E-06	6.51E-08	0.00E+00	1.44E-06	4.12E-07	1.17E-08	0.00E+00	4.24E-07	1.56E-07	3.78E-09	0.00E+00	1.60E-07
336	458268.5	3768605	1.36E-06	6.43E-08	0.00E+00	1.42E-06	1.36E-06	6.43E-08	0.00E+00	1.42E-06	4.07E-07	1.16E-08	0.00E+00	4.19E-07	1.54E-07	3.73E-09	0.00E+00	1.58E-07
337	458264.9	3768614	1.34E-06	6.35E-08	0.00E+00	1.40E-06	1.34E-06	6.35E-08	0.00E+00	1.40E-06	4.02E-07	1.14E-08	0.00E+00	4.13E-07	1.52E-07	3.69E-09	0.00E+00	1.56E-07
338	458261.3	3768623	1.32E-06	6.26E-08	0.00E+00	1.39E-06	1.32E-06	6.26E-08	0.00E+00	1.39E-06	3.96E-07	1.13E-08	0.00E+00	4.07E-07	1.50E-07	3.63E-09	0.00E+00	1.54E-07
339	458257.7	3768632	1.3E-06	6.17E-08	0.00E+00	1.36E-06	1.30E-06	6.17E-08	0.00E+00	1.36E-06	3.90E-07	1.11E-08	0.00E+00	4.01E-07	1.48E-07	3.58E-09	0.00E+00	1.51E-07
340	458254.1	3768640	1.28E-06	6.07E-08	0.00E+00	1.34E-06	1.28E-06	6.07E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
341	458250.6	3768649	1.26E-06	5.97E-08	0.00E+00	1.32E-06	1.26E-06	5.97E-08	0.00E+00	1.32E-06	3.78E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.47E-09	0.00E+00	1.47E-07
342	458247	3768658	1.24E-06	5.86E-08	0.00E+00	1.30E-06	1.24E-06	5.86E-08	0.00E+00	1.30E-06	3.71E-07	1.05E-08	0.00E+00	3.82E-07	1.41E-07	3.40E-09	0.00E+00	1.44E-07
343	458243.4	3768667	1.22E-06	5.76E-08	0.00E+00	1.27E-06	1.22E-06	5.76E-08	0.00E+00	1.27E-06	3.64E-07	1.03E-08	0.00E+00	3.74E-07	1.38E-07	3.34E-09	0.00E+00	1.41E-07
344	458239.8	3768676	1.19E-06	5.64E-08	0.00E+00	1.25E-06	1.19E-06	5.64E-08	0.00E+00	1.25E-06	3.57E-07	1.01E-08	0.00E+00	3.67E-07	1.35E-07	3.28E-09	0.00E+00	1.39E-07
345	458236.2	3768685	1.17E-06	5.53E-08	0.00E+00	1.22E-06	1.17E-06	5.53E-08	0.00E+00	1.22E-06	3.50E-07	9.94E-09	0.00E+00	3.60E-07	1.33E-07	3.21E-09	0.00E+00	1.36E-07
346	458232.7	3768694	1.14E-06	5.41E-08	0.00E+00	1.20E-06	1.14E-06	5.41E-08	0.00E+00	1.20E-06	3.42E-07	9.73E-09	0.00E+00	3.52E-07	1.30E-07	3.14E-09	0.00E+00	1.33E-07
347	458229.1	3768703	1.12E-06	5.3E-08	0.00E+00	1.17E-06	1.12E-06	5.30E-08	0.00E+00	1.17E-06	3.35E-07	9.52E-09	0.00E+00	3.45E-07	1.27E-07	3.07E-09	0.00E+00	1.30E-07
348	458225.5	3768711	1.09E-06	5.17E-08	0.00E+00	1.14E-06	1.09E-06	5.17E-08	0.00E+00	1.14E-06	3.27E-07	9.30E-09	0.00E+00	3.37E-07	1.24E-07	3.00E-09	0.00E+00	1.27E-07
349	458221.9	3768720	1.07E-06	5.05E-08	0.00E+00	1.12E-06	1.07E-06	5.05E-08	0.00E+00	1.12E-06	3.20E-07	9.09E-09	0.00E+00	3.29E-07	1.21E-07	2.93E-09	0.00E+00	1.24E-07
350	458218.3	3768729	1.04E-06	4.93E-08	0.00E+00	1.09E-06	1.04E-06	4.93E-08	0.00E+00	1.09E-06	3.12E-07	8.86E-09	0.00E+00	3.21E-07	1.18E-07	2.86E-09	0.00E+00	1.21E-07
351	458205.9	3768742	1E-06	4.75E-08	0.00E+00	1.05E-06	1.00E-06	4.75E-08	0.00E+00	1.05E-06	3.01E-07	8.55E-09	0.00E+00	3.09E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
352	458197.1	3768745	9.91E-07	4.69E-08	0.00E+00	1.04E-06	9.91E-07	4.69E-08	0.00E+00	1.04E-06	2.97E-07	8.44E-09	0.00E+00	3.05E-07	1.12E-07	2.72E-09	0.00E+00	1.15E-07
353	458188.3	3768749	9.78E-07	4.63E-08	0.00E+00	1.02E-06	9.78E-07	4.63E-08	0.00E+00	1.02E-06	2.93E-07	8.32E-09	0.00E+00	3.01E-07	1.11E-07	2.69E-09	0.00E+00	1.14E-07
354	458179.4	3768753	9.63E-07	4.56E-08	0.00E+00	1.01E-06	9.63E-07	4.56E-08	0.00E+00	1.01E-06	2.89E-07	8.20E-09	0.00E+00	2.97E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
355	458170.6	3768756	9.48E-07	4.49E-08	0.00E+00	9.93E-07	9.48E-07	4.49E-08	0.00E+00	9.93E-07	2.84E-07	8.07E-09	0.00E+00	2.92E-07	1.08E-07	2.61E-09	0.00E+00	1.10E-07
356	458161.8	3768760	9.33E-07	4.42E-08	0.00E+00	9.78E-07	9.33E-07	4.42E-08	0.00E+00	9.78E-07	2.80E-07	7.95E-09	0.00E+00	2.88E-07	1.06E-07	2.57E-09	0.00E+00	1.08E-07
357	458153	3768764	9.18E-07	4.35E-08	0.00E+00	9.62E-07	9.18E-07	4.35E-08	0.00E+00	9.62E-07	2.75E-07	7.82E-09	0.00E+00	2.83E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
358	458144.1	3768768	9.03E-07	4.27E-08	0.00E+00	9.46E-07	9.03E-07	4.27E-08	0.00E+00	9.46E-07	2.70E-07	7.69E-09	0.00E+00	2.78E-07	1.02E-07	2.48E-09	0.00E+00	1.05E-07
359	458100	3768786	8.15E-07	3.86E-08	0.00E+00	8.53E-07	8.15E-07	3.86E-08	0.00E+00	8.53E-07	2.44E-07	6.94E-09	0.00E+00	2.51E-07	9.24E-08	2.24E-09	0.00E+00	9.47E-08
360	458091.2	3768790	7.97E-07	3.77E-08	0.00E+00	8.35E-07	7.97E-07	3.77E-08	0.00E+00	8.35E-07	2.39E-07	6.79E-09	0.00E+00	2.46E-07	9.04E-08	2.19E-09	0.00E+00	9.26E-08
361	458082.4	3768793	7.8E-07	3.69E-08	0.00E+00	8.17E-07	7.80E-07	3.69E-08	0.00E+00	8.17E-07	2.34E-07	6.64E-09	0.00E+00	2.40E-07	8.85E-08	2.14E-09	0.00E+00	9.06E-08
362	458073.5	3768797	7.61E-07	3.61E-08	0.00E+00	7.97E-07	7.61E-07	3.61E-08	0.00E+00	7.97E-07	2.28E-07	6.48E-09	0.00E+00	2.35E-07	8.64E-08	2.09E-09	0.00E+00	8.85E-08
363	458064.7	3768801	7.42E-07	3.51E-08	0.00E+00	7.77E-07	7.42E-07	3.51E-08	0.00E+00	7.77E-07	2.22E-07	6.32E-09	0.00E+00	2.29E-07	8.42E-08	2.04E-09	0.00E+00	8.62E-08
364	458055.9	3768804	7.23E-07	3.42E-08	0.00E+00	7.57E-07	7.23E-07	3.42E-08	0.00E+00	7.57E-07	2.17E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.40E-08
365	458047.1	3768808	7.04E-07	3.33E-08	0.00E+00	7.37E-07	7.04E-07	3.33E-08	0.00E+00	7.37E-07	2.11E-07	5.99E-09	0.00E+00	2.17E-07	7.98E-08	1.93E-09	0.00E+00	8.18E-08
366	458038.2	3768812	6.85E-07	3.24E-08	0.00E+00	7.18E-07	6.85E-07	3.24E-08	0.00E+00	7.18E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
367	458029.4	3768816	6.67E-07	3.16E-08	0.00E+00	6.99E-07	6.67E-07	3.16E-08	0.00E+00	6.99E-07	2.00E-07	5.68E-09	0.00E+00	2.06E-07	7.57E-08	1.83E-09	0.00E+00	7.75E-08
368	458020.6	3768819	6.5E-07	3.08E-08	0.00E+00	6.80E-07	6.50E-07	3.08E-08	0.00E+00	6.80E-07	1.95E-07	5.53E-09	0.00E+00	2.00E-07	7.37E-08	1.79E-09	0.00E+00	7.55E-08
369	458011.8	3768823	6.32E-07	2.99E-08	0.00E+00	6.62E-07	6.32E-07	2.99E-08	0.00E+00	6.62E-07	1.89E-07	5.38E-09	0.00E+00	1.95E-07	7.17E-08	1.74E-09	0.00E+00	7.34E-08
370	458002.9	3768827	6.14E-07	2.91E-08	0.00E+00	6.43E-07	6.14E-07	2.91E-08	0.00E+00	6.43E-07	1.84E-07	5.22E-09	0.00E+00	1.89E-07	6.96E-08	1.69E-09	0.00E+00	7.13E-08
371	457994.1	3768830	5.96E-07	2.82E-08	0.00E+00	6.24E-07	5.96E-07	2.82E-08	0.00E+00	6.24E-07	1.78E-07	5.07E-09	0.00E+00	1.83E-07	6.76E-08	1.64E-09	0.00E+00	6.92E-08
372	457985.3	3768834	5.78E-07	2.74E-08	0.00E+00	6.06E-07	5.78E-07	2.74E-08	0.00E+00	6.06E-07	1.73E-07	4.92E-09	0.00E+00	1.78E-07	6.56E-08	1.59E-09	0.00E+00	6.72E-08
373	457976.5	3768838	5.61E-07	2.66E-08	0.00E+00	5.88E-07	5.61E-07	2.66E-08	0.00E+00	5.88E-07	1.68E-07	4.78E-09	0.00E+00	1.73E-07	6.37E-08	1.54E-09	0.00E+00	6.52E-08
374	457967.6	3768841	5.44E-07	2.58E-08	0.00E+00	5.70E-07	5.44E-07	2.58E-08	0.00E+00	5.70E-07	1.63E-07	4.63E-09	0.00E+00	1.68E-07	6.18E-08	1.50E-09	0.00E+00	6.32E-08
375	457958.8	3768845	5.28E-07	2.5E-08	0.00E+00	5.53E-07	5.28E-07	2.50E-08	0.00E+00	5.53E-07	1.58E-07	4.49E-09	0.00E+00	1.63E-07	5.99E-08	1.45E-09	0.00E+00	6.13E-08
376	457950	3768849	5.12E-07	2.42E-08	0.00E+00	5.36E-07	5.12E-07	2.42E-08	0.00E+00	5.36E-07	1.53E-07	4.36E-09	0.00E+00	1.58E-07	5.81E-08	1.41E-09	0.00E+00	5.95E-08
377	457941.2	3768852	4.96E-07	2.35E-08	0.00E+00	5.19E-07	4.96E-07	2.35E-08	0.00E+00	5.19E-07	1.49E-07	4.22E-09	0.00E+00	1.53E-07	5.63E-08	1.36E-09	0.00E+00	5.76E-08
378	457932.3	3768856	4.81E-07	2.28E-08	0.00E+00	5.03E-07	4.81E-07	2.28E-08	0.00E+00	5.03E-07	1.44E-07	4.09E-09	0.00E+00	1.48E-07	5.45E-08	1.32E-09	0.00E+00	5.59E-08
379	457923.5	3768860	4.66E-07	2.21E-08	0.00E+00	4.88E-07	4.66E-07	2.21E-08	0.00E+00	4.88E-07	1.40E-07	3.97E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
380	457914.7	3768863	4.51E-07	2.14E-08	0.00E+00	4.73E-07	4.51E-07	2.14E-08	0.00E+00	4.73E-07	1.35E-07	3.84E-09	0.00E+00	1.39E-07	5.12E-08	1.24E-09	0.00E+00	5.25E-08
381	457905.9	3768867	4.37E-07	2.07E-08	0.00E+00	4.58E-07	4.37E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
382	457897	3768871	4.24E-07	2.01E-08	0.00E+00	4.44E-07	4.24E-07	2.01E-08	0.00E+00	4.44E-07	1.27E-07	3.61E-09	0.00E+00	1.31E-07	4.81E-08	1.17E-09	0.00E+00	4.93E-08
383	457888.2	3768875	4.12E-07	1.95E-08	0.00E+00	4.31E-07	4.12E-07	1.95E-08	0.00E+00	4.31E-07	1.23E-07	3.50E-09	0.00E+00	1.27E-07	4.67E-08	1.13E-09	0.00E+00	4.78E-08
384	457879.4	3768878	3.99E-07	1.89E-08	0.00E+00	4.18E-07	3.99E-07	1.89E-08	0.00E+00	4.18E-07	1.20E-07	3.40E-09	0.00E+00	1.23E-07	4.53E-08	1.10E-09	0.00E+00	4.64E-08
385	457870.6	3768882	3.87E-07	1.83E-08	0.00E+00	4.05E-07	3.87E-07	1.83E-08	0.00E+00	4.05E-07	1.16E-07	3.29E-09	0.00E+00	1.19E-07	4.39E-08	1.06E-09	0.00E+00	4.49E-08
386	457861.7	3768886	3.76E-07	1.78E-08	0.00E+00	3.93E-07	3.76E-07	1.78E-08	0.00E+00	3.93E-07	1.12E-07	3.20E-09	0.00E+00	1.16E-07	4.26E-08	1.03E-09	0.00E+00	4.36E-08
387	457852.9	3768889	3.65E-07	1.73E-08	0.00E+00	3.82E-07	3.65E-07	1.73E-08	0.00E+00	3.82E-07	1.09E-07	3.11E-09	0.00E+00	1.12E-07	4.14E-08	1.00E-09	0.00E+00	4.24E-08
388	457844.1	3768893	3.55E-07	1.68E-08	0.00E+00	3.72E-07	3.55E-07	1.68E-08	0.00E+00	3.72E-07	1.06E-07	3.02E-09	0.00E+00	1.09E-07	4.03E-08	9.75E-10	0.00E+00	4.12E-08
389	457835.3	3768897	3.45E-07	1.63E-08	0.00E+00	3.61E-07	3.45E-07	1.63E-08	0.00E+00	3.61E-07	1.03E-07	2.93E-09	0.00E+00	1.06E-07	3.91E-08	9.47E-10	0.00E+00	4.00E-08
390	457826.4	3768900	3.34E-07	1.58E-08	0.00E+00	3.50E-07	3.34E-07	1.58E-08	0.00E+00	3.50E-07	1.00E-07	2.84E-09	0.00E+00	1.03E-07	3.79E-08	9.18E-10	0.00E+00	3.88E-08
391	457817.6	3768904	3.24E-07	1.53E-08	0.00E+00	3.39E-07	3.24E-07	1.53E-08	0.00E+00	3.39E-07	9.71E-08	2.76E-09	0.00E+00	9.98E-08	3.68E-08	8.91E-10	0.00E+00	3.77E-08
392	457808.8	3768908	3.15E-07	1.49E-08	0.00E+00	3.30E-07	3.15E-07	1.49E-08	0.00E+00	3.30E-07	9.42E-08	2.68E-09	0.00E+00	9.69E-08	3.57E-08	8.65E-10	0.00E+00	3.66E-08
393	457800	3768911	3.06E-07	1.45E-08	0.00E+00	3.21E-07	3.06E-07	1.45E-08	0.00E+00	3.21E-07	9.17E-08	2.61E-09	0.00E+00	9.43E-08	3.47E-08	8.42E-10	0.00E+00	3.56E-08
394	457791.1	3768915	2.99E-07	1.41E-08	0.00E+00	3.13E-07	2.99E-07	1.41E-08	0.00E+00	3.13E-07	8.94E-08	2.54E-09	0.00E+00	9.19E-08	3.39E-08	8.20E-10	0.00E+00	3.47E-08
395	457782.3	3768919	2.91E-07	1.38E-08	0.00E+00	3.05E-07	2.91E-07	1.38E-08	0.00E+00	3.05E-07	8.72E-08	2.48E-09	0.00E+00	8.97E-08	3.30E-08	8.00E-10	0.00E+00	3.38E-08
396	457773.5	3768922	2.83E-07	1.34E-08	0.00E+00	2.97E-07	2.83E-07	1.34E-08	0.00E+00	2.97E-07	8.48E-08	2.41E-09	0.00E+00	8.73E-08	3.21E-08	7.78E-10	0.00E+00	3.29E-08
397	457764.7	3768926	2.76E-07	1.3E-08	0.00E+00	2.89E-07	2.76E-07	1.30E-08	0.00E+00	2.89E-07	8.25E-08	2.35E-09	0.00E+00	8.49E-08	3.13E-08	7.57E-10	0.00E+00	3.20E-08
398	457755.8	3768930	2.68E-07	1.27E-08	0.00E+00	2.81E-07	2.68E-07	1.27E-08	0.00E+00	2.81E-07	8.04E-08	2.28E-09	0.00E+00	8.26E-08	3.04E-08	7.37E-10	0.00E+00	3.12E-08
399	457747	3768934	2.61E-07	1.24E-08	0.00E+00	2.74E-07	2.61E-07	1.24E-08	0.00E+00	2.74E-07	7.83E-08	2.23E-09	0.00E+00	8.05E-08	2.97E-08	7.18E-10	0.00E+00	3.04E-08
400	457738.2	3768937	2.55E-07	1.21E-08	0.00E+00	2.67E-07	2.55E-07	1.21E-08	0.00E+00	2.67E-07	7.64E-08	2.17E-09	0.00E+00	7.86E-08	2.90E-08	7.01E-10	0.00E+00	2.97E-08
401	457729.4	3768941	2.49E-07	1.18E-08	0.00E+00	2.61E-07	2.49E-07	1.18E-08	0.00E+00	2.61E-07	7.47E-08	2.12E-09	0.00E+00	7.68E-08	2.83E-08	6.86E-10	0.00E+00	2.90E-08
402	458369	3768455	1.34E-06	6.35E-08	0.00E+00	1.40E-06	1.34E-06	6.35E-08	0.00E+00	1.40E-06	4.02E-07	1.14E-08	0.00E+00	4.13E-07	1.52E-07	3.69E-09	0.00E+00	1.56E-07
403	458365.4	3768463	1.35E-06	6.38E-08	0.00E+00	1.41E-06	1.35E-06	6.38E-08	0.00E+00	1.41E-06	4.04E-07	1.15E-08	0.00E+00	4.15E-07	1.53E-07	3.71E-09	0.00E+00	1.57E-07
404	458361.8	3768472	1.36E-06	6.42E-08	0.00E+00	1.42E-06	1.36E-06	6.42E-08	0.00E+00	1.42E-06	4.06E-07	1.15E-08	0.00E+00	4.17E-07	1.54E-07	3.72E-09	0.00E+00	1.57E-07
405	458358.2	3768481	1.36E-06	6.44E-08	0.00E+00	1.43E-06	1.36E-06	6.44E-08	0.00E+00	1.43E-06	4.08E-07	1.16E-08	0.00E+00	4.19E-07	1.54E-07	3.74E-09	0.00E+00	1.58E-07
406	458354.6	3768490	1.37E-06	6.46E-08	0.00E+00	1.43E-06	1.37E-06	6.46E-08	0.00E+00	1.43E-06	4.09E-07	1.16E-08	0.00E+00	4.21E-07	1.55E-07	3.75E-09	0.00E+00	1.59E-07
407	458351.1	3768499	1.37E-06	6.48E-08	0.00E+00	1.43E-06	1.37E-06	6.48E-08	0.00E+00	1.43E-06	4.10E-07	1.16E-08	0.00E+00	4.21E-07	1.55E-07	3.76E-09	0.00E+00	1.59E-07
408	458347.5	3768508	1.37E-06	6.48E-08	0.00E+00	1.43E-06	1.37E-06	6.48E-08	0.00E+00	1.43E-06	4.10E-07	1.17E-08	0.00E+00	4.22E-07	1.55E-07	3.76E-09	0.00E+00	1.59E-07
409	458343.9	3768517	1.37E-06	6.48E-08	0.00E+00	1.43E-06	1.37E-06	6.48E-08	0.00E+00	1.43E-06	4.10E-07	1.17E-08	0.00E+00	4.22E-07	1.55E-07	3.76E-09	0.00E+00	1.59E-07
410	458340.3	3768526	1.37E-06	6.48E-08	0.00E+00	1.43E-06	1.37E-06	6.48E-08	0.00E+00	1.43E-06	4.10E-07	1.16E-08	0.00E+00	4.21E-07	1.55E-07	3.76E-09	0.00E+00	1.59E-07
411	458336.7	3768535	1.37E-06	6.47E-08	0.00E+00	1.43E-06	1.37E-06	6.47E-08	0.00E+00	1.43E-06	4.09E-07	1.16E-08	0.00E+00	4.21E-07	1.55E-07	3.75E-09	0.00E+00	1.59E-07
412	458333.1	3768544	1.36E-06	6.45E-08	0.00E+00	1.43E-06	1.36E-06	6.45E-08	0.00E+00	1.43E-06	4.08E-07	1.16E-08	0.00E+00	4.20E-07	1.55E-07	3.74E-09	0.00E+00	1.58E-07
413	458329.5	3768553	1.36E-06	6.43E-08	0.00E+00	1.42E-06	1.36E-06	6.43E-08	0.00E+00	1.42E-06	4.07E-07	1.16E-08	0.00E+00	4.18E-07	1.54E-07	3.73E-09	0.00E+00	1.58E-07
414	458325.9	3768561	1.35E-06	6.4E-08	0.00E+00	1.41E-06	1.35E-06	6.40E-08	0.00E+00	1.41E-06	4.05E-07	1.15E-08	0.00E+00	4.16E-07	1.53E-07	3.71E-09	0.00E+00	1.57E-07
415	458322.3	3768570	1.34E-06	6.36E-08	0.00E+00	1.41E-06	1.34E-06	6.36E-08	0.00E+00	1.41E-06	4.02E-07	1.14E-08	0.00E+00	4.14E-07	1.52E-07	3.69E-09	0.00E+00	1.56E-07
416	458318.7	3768579	1.33E-06	6.32E-08	0.00E+00	1.40E-06	1.33E-06	6.32E-08	0.00E+00	1.40E-06	4.00E-07	1.14E-08	0.00E+00	4.11E-07	1.51E-07	3.67E-09	0.00E+00	1.55E-07
417	458315.1	3768588	1.32E-06	6.27E-08	0.00E+00	1.39E-06	1.32E-06	6.27E-08	0.00E+00	1.39E-06	3.96E-07	1.13E-08	0.00E+00	4.08E-07	1.50E-07	3.64E-09	0.00E+00	1.54E-07
418	458311.5	3768597	1.31E-06	6.21E-08	0.00E+00	1.37E-06	1.31E-06	6.21E-08	0.00E+00	1.37E-06	3.93E-07	1.12E-08	0.00E+00	4.04E-07	1.49E-07	3.61E-09	0.00E+00	1.53E-07
419	458307.9	3768606	1.3E-06	6.15E-08	0.00E+00	1.36E-06	1.30E-06	6.15E-08	0.00E+00	1.36E-06	3.89E-07	1.11E-08	0.00E+00	4.00E-07	1.47E-07	3.57E-09	0.00E+00	1.51E-07
420	458304.3	3768615	1.29E-06	6.09E-08	0.00E+00	1.35E-06	1.29E-06	6.09E-08	0.00E+00	1.35E-06	3.85E-07	1.09E-08	0.00E+00	3.96E-07	1.46E-07	3.53E-09	0.00E+00	1.49E-07
421	458300.7	3768624	1.27E-06	6.02E-08	0.00E+00	1.33E-06	1.27E-06	6.02E-08	0.00E+00	1.33E-06	3.81E-07	1.08E-08	0.00E+00	3.92E-07	1.44E-07	3.50E-09	0.00E+00	1.48E-07
422	458297.1	3768633	1.26E-06	5.95E-08	0.00E+00	1.32E-06	1.26E-06	5.95E-08	0.00E+00	1.32E-06	3.76E-07	1.07E-08	0.00E+00	3.87E-07	1.43E-07	3.45E-09	0.00E+00	1.46E-07
423	458293.5	3768642	1.24E-06	5.87E-08	0.00E+00	1.30E-06	1.24E-06	5.87E-08	0.00E+00	1.30E-06	3.71E-07	1.06E-08	0.00E+00	3.82E-07	1.41E-07	3.41E-09	0.00E+00	1.44E-07
424	458289.9	3768650	1.22E-06	5.79E-08	0.00E+00	1.28E-06	1.22E-06	5.79E-08	0.00E+00	1.28E-06	3.66E-07	1.04E-08	0.00E+00	3.76E-07	1.39E-07	3.36E-09	0.00E+00	1.42E-07
425	458286.3	3768659	1.2E-06	5.7E-08	0.00E+00	1.26E-06	1.20E-06	5.70E-08	0.00E+00	1.26E-06	3.61E-07	1.02E-08	0.00E+00	3.71E-07	1.37E-07	3.31E-09	0.00E+00	1.40E-07
426	458282.7	3768668	1.18E-06	5.61E-08	0.00E+00	1.24E-06	1.18E-06	5.61E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.65E-07	1.34E-07	3.26E-09	0.00E+00	1.38E-07
427	458279.2	3768677	1.17E-06	5.52E-08	0.00E+00	1.22E-06	1.17E-06	5.52E-08	0.00E+00	1.22E-06	3.49E-07	9.92E-09	0.00E+00	3.59E-07	1.32E-07	3.20E-09	0.00E+00	1.35E-07
428	458275.6	3768686	1.14E-06	5.42E-08	0.00E+00	1.20E-06	1.14E-06	5.42E-08	0.00E+00	1.20E-06	3.43E-07	9.74E-09	0.00E+00	3.53E-07	1.30E-07	3.15E-09	0.00E+00	1.33E-07
429	458272	3768695	1.12E-06	5.32E-08	0.00E+00	1.18E-06	1.12E-06	5.32E-08	0.00E+00	1.18E-06	3.37E-07	9.57E-09	0.00E+00	3.46E-07	1.27E-07	3.09E-09	0.00E+00	1.31E-07
430	458268.4	3768704	1.1E-06	5.22E-08	0.00E+00	1.15E-06	1.10E-06	5.22E-08	0.00E+00	1.15E-06	3.30E-07	9.38E-09	0.00E+00	3.40E-07	1.25E-07	3.03E-09	0.00E+00	1.28E-07
431	458264.8	3768713	1.08E-06	5.11E-08	0.00E+00	1.13E-06	1.08E-06	5.11E-08	0.00E+00	1.13E-06	3.23E-07	9.19E-09	0.00E+00	3.33E-07	1.23E-07	2.97E-09	0.00E+00	1.25E-07
432	458261.2	3768722	1.06E-06	5.01E-08	0.00E+00	1.11E-06	1.06E-06	5.01E-08	0.00E+00	1.11E-06	3.17E-07	9.00E-09	0.00E+00	3.26E-07	1.20E-07	2.91E-09	0.00E+00	1.23E-07
433	458257.6	3768731	1.03E-06	4.9E-08	0.00E+00	1.08E-06	1.03E-06	4.90E-08	0.00E+00	1.08E-06	3.10E-07	8.80E-09	0.00E+00	3.19E-07	1.17E-07	2.84E-09	0.00E+00	1.20E-07
434	458254	3768739	1.01E-06	4.79E-08	0.00E+00	1.06E-06	1.01E-06	4.79E-08	0.00E+00	1.06E-06	3.03E-07	8.61E-09	0.00E+00	3.11E-07	1.15E-07	2.78E-09	0.00E+00	1.17E-07
435	458250.4	3768748	9.88E-07	4.68E-08	0.00E+00	1.03E-06	9.88E-07	4.68E-08	0.00E+00	1.03E-06	2.96E-07	8.41E-09	0.00E+00	3.04E-07	1.12E-07	2.71E-09	0.00E+00	1.15E-07
436	458246.8	3768757	9.64E-07	4.57E-08	0.00E+00	1.01E-06	9.64E-07	4.57E-08	0.00E+00	1.01E-06	2.89E-07	8.21E-09	0.00E+00	2.97E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
437	458234.3	3768770	9.3E-07	4.4E-08	0.00E+00	9.74E-07	9.30E-07	4.40E-08	0.00E+00	9.74E-07	2.79E-07	7.92E-09	0.00E+00	2.86E-07	1.05E-07	2.56E-09	0.00E+00	1.08E-07

438	458225.5	3768774	9.18E-07	4.35E-08	0.00E+00	9.62E-07	9.18E-07	4.35E-08	0.00E+00	9.62E-07	2.75E-07	7.82E-09	0.00E+00	2.83E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
439	458216.6	3768777	9.06E-07	4.29E-08	0.00E+00	9.49E-07	9.06E-07	4.29E-08	0.00E+00	9.49E-07	2.71E-07	7.71E-09	0.00E+00	2.79E-07	1.03E-07	2.49E-09	0.00E+00	1.05E-07
440	458207.8	3768781	8.93E-07	4.23E-08	0.00E+00	9.36E-07	8.93E-07	4.23E-08	0.00E+00	9.36E-07	2.68E-07	7.60E-09	0.00E+00	2.75E-07	1.01E-07	2.45E-09	0.00E+00	1.04E-07
441	458198.9	3768785	8.8E-07	4.17E-08	0.00E+00	9.22E-07	8.80E-07	4.17E-08	0.00E+00	9.22E-07	2.64E-07	7.49E-09	0.00E+00	2.71E-07	9.98E-08	2.42E-09	0.00E+00	1.02E-07
442	458190.1	3768788	8.66E-07	4.1E-08	0.00E+00	9.07E-07	8.66E-07	4.10E-08	0.00E+00	9.07E-07	2.59E-07	7.37E-09	0.00E+00	2.67E-07	9.83E-08	2.38E-09	0.00E+00	1.01E-07
443	458181.2	3768792	8.52E-07	4.03E-08	0.00E+00	8.92E-07	8.52E-07	4.03E-08	0.00E+00	8.92E-07	2.55E-07	7.25E-09	0.00E+00	2.62E-07	9.66E-08	2.34E-09	0.00E+00	9.90E-08
444	458172.3	3768796	8.37E-07	3.96E-08	0.00E+00	8.77E-07	8.37E-07	3.96E-08	0.00E+00	8.77E-07	2.51E-07	7.13E-09	0.00E+00	2.58E-07	9.50E-08	2.30E-09	0.00E+00	9.73E-08
445	458163.5	3768799	8.22E-07	3.89E-08	0.00E+00	8.61E-07	8.22E-07	3.89E-08	0.00E+00	8.61E-07	2.46E-07	7.00E-09	0.00E+00	2.53E-07	9.32E-08	2.26E-09	0.00E+00	9.55E-08
446	458154.6	3768803	8.06E-07	3.82E-08	0.00E+00	8.44E-07	8.06E-07	3.82E-08	0.00E+00	8.44E-07	2.41E-07	6.86E-09	0.00E+00	2.48E-07	9.15E-08	2.22E-09	0.00E+00	9.37E-08
447	458145.8	3768807	7.9E-07	3.74E-08	0.00E+00	8.28E-07	7.90E-07	3.74E-08	0.00E+00	8.28E-07	2.37E-07	6.73E-09	0.00E+00	2.43E-07	8.97E-08	2.17E-09	0.00E+00	9.18E-08
448	458101.5	3768825	7.08E-07	3.35E-08	0.00E+00	7.41E-07	7.08E-07	3.35E-08	0.00E+00	7.41E-07	2.12E-07	6.02E-09	0.00E+00	2.18E-07	8.03E-08	1.94E-09	0.00E+00	8.22E-08
449	458092.6	3768829	6.91E-07	3.27E-08	0.00E+00	7.23E-07	6.91E-07	3.27E-08	0.00E+00	7.23E-07	2.07E-07	5.88E-09	0.00E+00	2.13E-07	7.84E-08	1.90E-09	0.00E+00	8.03E-08
450	458083.8	3768833	6.74E-07	3.19E-08	0.00E+00	7.06E-07	6.74E-07	3.19E-08	0.00E+00	7.06E-07	2.02E-07	5.74E-09	0.00E+00	2.08E-07	7.64E-08	1.85E-09	0.00E+00	7.83E-08
451	458074.9	3768836	6.57E-07	3.11E-08	0.00E+00	6.88E-07	6.57E-07	3.11E-08	0.00E+00	6.88E-07	1.97E-07	5.59E-09	0.00E+00	2.02E-07	7.45E-08	1.80E-09	0.00E+00	7.63E-08
452	458066.1	3768840	6.4E-07	3.03E-08	0.00E+00	6.70E-07	6.40E-07	3.03E-08	0.00E+00	6.70E-07	1.92E-07	5.45E-09	0.00E+00	1.97E-07	7.26E-08	1.76E-09	0.00E+00	7.44E-08
453	458057.2	3768844	6.23E-07	2.95E-08	0.00E+00	6.53E-07	6.23E-07	2.95E-08	0.00E+00	6.53E-07	1.87E-07	5.30E-09	0.00E+00	1.92E-07	7.07E-08	1.71E-09	0.00E+00	7.24E-08
454	458048.3	3768848	6.06E-07	2.87E-08	0.00E+00	6.35E-07	6.06E-07	2.87E-08	0.00E+00	6.35E-07	1.82E-07	5.16E-09	0.00E+00	1.87E-07	6.88E-08	1.67E-09	0.00E+00	7.05E-08
455	458039.5	3768851	5.9E-07	2.79E-08	0.00E+00	6.18E-07	5.90E-07	2.79E-08	0.00E+00	6.18E-07	1.77E-07	5.02E-09	0.00E+00	1.82E-07	6.69E-08	1.62E-09	0.00E+00	6.86E-08
456	458030.6	3768855	5.73E-07	2.72E-08	0.00E+00	6.01E-07	5.73E-07	2.72E-08	0.00E+00	6.01E-07	1.72E-07	4.88E-09	0.00E+00	1.77E-07	6.51E-08	1.58E-09	0.00E+00	6.66E-08
457	458021.8	3768859	5.57E-07	2.64E-08	0.00E+00	5.84E-07	5.57E-07	2.64E-08	0.00E+00	5.84E-07	1.67E-07	4.74E-09	0.00E+00	1.72E-07	6.32E-08	1.53E-09	0.00E+00	6.47E-08
458	458012.9	3768862	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.61E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
459	458004	3768866	5.27E-07	2.5E-08	0.00E+00	5.52E-07	5.27E-07	2.50E-08	0.00E+00	5.52E-07	1.58E-07	4.49E-09	0.00E+00	1.62E-07	5.98E-08	1.45E-09	0.00E+00	6.13E-08
460	457995.2	3768870	5.12E-07	2.43E-08	0.00E+00	5.37E-07	5.12E-07	2.43E-08	0.00E+00	5.37E-07	1.53E-07	4.36E-09	0.00E+00	1.58E-07	5.81E-08	1.41E-09	0.00E+00	5.95E-08
461	457986.3	3768874	4.97E-07	2.35E-08	0.00E+00	5.21E-07	4.97E-07	2.35E-08	0.00E+00	5.21E-07	1.49E-07	4.23E-09	0.00E+00	1.53E-07	5.64E-08	1.37E-09	0.00E+00	5.78E-08
462	457977.5	3768877	4.82E-07	2.28E-08	0.00E+00	5.05E-07	4.82E-07	2.28E-08	0.00E+00	5.05E-07	1.44E-07	4.10E-09	0.00E+00	1.48E-07	5.47E-08	1.32E-09	0.00E+00	5.60E-08
463	457968.6	3768881	4.67E-07	2.21E-08	0.00E+00	4.89E-07	4.67E-07	2.21E-08	0.00E+00	4.89E-07	1.40E-07	3.98E-09	0.00E+00	1.44E-07	5.30E-08	1.28E-09	0.00E+00	5.43E-08
464	457959.8	3768885	4.52E-07	2.14E-08	0.00E+00	4.74E-07	4.52E-07	2.14E-08	0.00E+00	4.74E-07	1.36E-07	3.85E-09	0.00E+00	1.39E-07	5.13E-08	1.24E-09	0.00E+00	5.26E-08
465	457950.9	3768888	4.4E-07	2.08E-08	0.00E+00	4.61E-07	4.40E-07	2.08E-08	0.00E+00	4.61E-07	1.32E-07	3.74E-09	0.00E+00	1.35E-07	4.99E-08	1.21E-09	0.00E+00	5.11E-08
466	457942	3768892	4.27E-07	2.02E-08	0.00E+00	4.48E-07	4.27E-07	2.02E-08	0.00E+00	4.48E-07	1.28E-07	3.64E-09	0.00E+00	1.32E-07	4.85E-08	1.17E-09	0.00E+00	4.97E-08
467	457933.2	3768896	4.15E-07	1.97E-08	0.00E+00	4.35E-07	4.15E-07	1.97E-08	0.00E+00	4.35E-07	1.24E-07	3.53E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.82E-08
468	457924.3	3768899	4.03E-07	1.91E-08	0.00E+00	4.22E-07	4.03E-07	1.91E-08	0.00E+00	4.22E-07	1.21E-07	3.43E-09	0.00E+00	1.24E-07	4.57E-08	1.11E-09	0.00E+00	4.68E-08
469	457915.5	3768903	3.91E-07	1.85E-08	0.00E+00	4.09E-07	3.91E-07	1.85E-08	0.00E+00	4.09E-07	1.17E-07	3.33E-09	0.00E+00	1.20E-07	4.44E-08	1.07E-09	0.00E+00	4.54E-08
470	457906.6	3768907	3.8E-07	1.8E-08	0.00E+00	3.98E-07	3.80E-07	1.80E-08	0.00E+00	3.98E-07	1.14E-07	3.23E-09	0.00E+00	1.17E-07	4.31E-08	1.04E-09	0.00E+00	4.41E-08
471	457897.8	3768911	3.69E-07	1.75E-08	0.00E+00	3.87E-07	3.69E-07	1.75E-08	0.00E+00	3.87E-07	1.11E-07	3.14E-09	0.00E+00	1.14E-07	4.19E-08	1.01E-09	0.00E+00	4.29E-08
472	457888.9	3768914	3.58E-07	1.7E-08	0.00E+00	3.75E-07	3.58E-07	1.70E-08	0.00E+00	3.75E-07	1.07E-07	3.05E-09	0.00E+00	1.10E-07	4.06E-08	9.85E-10	0.00E+00	4.16E-08
473	457880	3768918	3.48E-07	1.65E-08	0.00E+00	3.64E-07	3.48E-07	1.65E-08	0.00E+00	3.64E-07	1.04E-07	2.96E-09	0.00E+00	1.07E-07	3.95E-08	9.56E-10	0.00E+00	4.04E-08
474	457871.2	3768922	3.38E-07	1.6E-08	0.00E+00	3.54E-07	3.38E-07	1.60E-08	0.00E+00	3.54E-07	1.01E-07	2.87E-09	0.00E+00	1.04E-07	3.83E-08	9.28E-10	0.00E+00	3.92E-08
475	457862.3	3768925	3.28E-07	1.55E-08	0.00E+00	3.44E-07	3.28E-07	1.55E-08	0.00E+00	3.44E-07	9.83E-08	2.79E-09	0.00E+00	1.01E-07	3.72E-08	9.01E-10	0.00E+00	3.81E-08
476	457853.5	3768929	3.19E-07	1.51E-08	0.00E+00	3.34E-07	3.19E-07	1.51E-08	0.00E+00	3.34E-07	9.55E-08	2.71E-09	0.00E+00	9.82E-08	3.62E-08	8.76E-10	0.00E+00	3.70E-08
477	457844.6	3768933	3.1E-07	1.47E-08	0.00E+00	3.24E-07	3.10E-07	1.47E-08	0.00E+00	3.24E-07	9.28E-08	2.64E-09	0.00E+00	9.54E-08	3.52E-08	8.51E-10	0.00E+00	3.60E-08
478	457835.8	3768936	3.01E-07	1.43E-08	0.00E+00	3.16E-07	3.01E-07	1.43E-08	0.00E+00	3.16E-07	9.02E-08	2.56E-09	0.00E+00	9.28E-08	3.42E-08	8.28E-10	0.00E+00	3.50E-08
479	457826.9	3768940	2.93E-07	1.39E-08	0.00E+00	3.07E-07	2.93E-07	1.39E-08	0.00E+00	3.07E-07	8.78E-08	2.50E-09	0.00E+00	9.03E-08	3.33E-08	8.05E-10	0.00E+00	3.41E-08
480	457818	3768944	2.85E-07	1.35E-08	0.00E+00	2.99E-07	2.85E-07	1.35E-08	0.00E+00	2.99E-07	8.54E-08	2.43E-09	0.00E+00	8.79E-08	3.24E-08	7.84E-10	0.00E+00	3.31E-08
481	457809.2	3768948	2.78E-07	1.31E-08	0.00E+00	2.91E-07	2.78E-07	1.31E-08	0.00E+00	2.91E-07	8.32E-08	2.36E-09	0.00E+00	8.55E-08	3.15E-08	7.63E-10	0.00E+00	3.23E-08
482	457800.3	3768951	2.71E-07	1.28E-08	0.00E+00	2.83E-07	2.71E-07	1.28E-08	0.00E+00	2.83E-07	8.10E-08	2.30E-09	0.00E+00	8.33E-08	3.07E-08	7.43E-10	0.00E+00	3.14E-08
483	457791.5	3768955	2.64E-07	1.25E-08	0.00E+00	2.76E-07	2.64E-07	1.25E-08	0.00E+00	2.76E-07	7.90E-08	2.24E-09	0.00E+00	8.12E-08	2.99E-08	7.25E-10	0.00E+00	3.06E-08
484	457782.6	3768959	2.57E-07	1.22E-08	0.00E+00	2.69E-07	2.57E-07	1.22E-08	0.00E+00	2.69E-07	7.70E-08	2.19E-09	0.00E+00	7.92E-08	2.92E-08	7.06E-10	0.00E+00	2.99E-08
485	457773.8	3768962	2.51E-07	1.19E-08	0.00E+00	2.63E-07	2.51E-07	1.19E-08	0.00E+00	2.63E-07	7.51E-08	2.14E-09	0.00E+00	7.72E-08	2.85E-08	6.89E-10	0.00E+00	2.91E-08
486	457764.9	3768966	2.45E-07	1.16E-08	0.00E+00	2.56E-07	2.45E-07	1.16E-08	0.00E+00	2.56E-07	7.33E-08	2.08E-09	0.00E+00	7.54E-08	2.78E-08	6.73E-10	0.00E+00	2.84E-08
487	457756	3768970	2.39E-07	1.13E-08	0.00E+00	2.50E-07	2.39E-07	1.13E-08	0.00E+00	2.50E-07	7.16E-08	2.03E-09	0.00E+00	7.36E-08	2.71E-08	6.57E-10	0.00E+00	2.78E-08
488	457747.2	3768973	2.34E-07	1.11E-08	0.00E+00	2.45E-07	2.34E-07	1.11E-08	0.00E+00	2.45E-07	6.99E-08	1.99E-09	0.00E+00	7.19E-08	2.65E-08	6.42E-10	0.00E+00	2.71E-08
489	457738.3	3768977	2.28E-07	1.08E-08	0.00E+00	2.39E-07	2.28E-07	1.08E-08	0.00E+00	2.39E-07	6.84E-08	1.94E-09	0.00E+00	7.03E-08	2.59E-08	6.27E-10	0.00E+00	2.65E-08
490	457729.5	3768981	2.23E-07	1.06E-08	0.00E+00	2.34E-07	2.23E-07	1.06E-08	0.00E+00	2.34E-07	6.68E-08	1.90E-09	0.00E+00	6.87E-08	2.53E-08	6.13E-10	0.00E+00	2.59E-08
491	458408.7	3768455	1.24E-06	5.88E-08	0.00E+00	1.30E-06	1.24E-06	5.88E-08	0.00E+00	1.30E-06	3.72E-07	1.06E-08	0.00E+00	3.83E-07	1.41E-07	3.41E-09	0.00E+00	1.44E-07
492	458405.1	3768464	1.25E-06	5.92E-08	0.00E+00	1.31E-06	1.25E-06	5.92E-08	0.00E+00	1.31E-06	3.75E-07	1.06E-08	0.00E+00	3.85E-07	1.42E-07	3.44E-09	0.00E+00	1.45E-07
493	458401.5	3768473	1.26E-06	5.96E-08	0.00E+00	1.32E-06	1.26E-06	5.96E-08	0.00E+00	1.32E-06	3.77E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.46E-09	0.00E+00	1.46E-07
494	458397.9	3768482	1.27E-06	5.99E-08	0.00E+00	1.33E-06	1.27E-06	5.99E-08	0.00E+00	1.33E-06	3.79E-07	1.08E-08	0.00E+00	3.90E-07	1.44E-07	3.48E-09	0.00E+00	1.47E-07
495	458394.3	3768491	1.27E-06	6.02E-08	0.00E+00	1.33E-06	1.27E-06	6.02E-08	0.00E+00	1.33E-06	3.81E-07	1.08E-08	0.00E+00	3.92E-07	1.44E-07	3.49E-09	0.00E+00	1.48E-07
496	458390.7	3768500	1.28E-06	6.04E-08	0.00E+00	1.34E-06	1.28E-06	6.04E-08	0.00E+00	1.34E-06	3.82E-07	1.09E-08	0.00E+00	3.93E-07	1.45E-07	3.51E-09	0.00E+00	1.48E-07
497	458387.1	3768508	1.28E-06	6.05E-08	0.00E+00	1.34E-06	1.28E-06	6.05E-08	0.00E+00	1.34E-06	3.83E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.51E-09	0.00E+00	1.49E-07
498	458383.5	3768517	1.28E-06	6.06E-08	0.00E+00	1.34E-06	1.28E-06	6.06E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
499	458379.9	3768526	1.28E-06	6.07E-08	0.00E+00	1.34E-06	1.28E-06	6.07E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
500	458376.3	3768535	1.28E-06	6.07E-08	0.00E+00	1.34E-06	1.28E-06	6.07E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
501	458372.6	3768544	1.28E-06	6.06E-08	0.00E+00	1.34E-06	1.28E-06	6.06E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
502	458369	3768553	1.28E-06	6.05E-08	0.00E+00	1.34E-06	1.28E-06	6.05E-08	0.00E+00	1.34E-06	3.83E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.51E-09	0.00E+00	1.49E-07
503	458365.4	3768562	1.27E-06	6.04E-08	0.00E+00	1.34E-06	1.27E-06	6.04E-08	0.00E+00	1.34E-06	3.82E-07	1.09E-08	0.00E+00	3.93E-07	1.45E-07	3.50E-09	0.00E+00	1.48E-07
504	458361.8	3768571	1.27E-06	6.01E-08	0.00E+00	1.33E-06	1.27E-06	6.01E-08	0.00E+00	1.33E-06	3.80E-07	1.08E-08	0.00E+00	3.91E-07	1.44E-07	3.49E-09	0.00E+00	1.48E-07
505	458358.2	3768580	1.26E-06	5.98E-08	0.00E+00	1.32E-06	1.26E-06	5.98E-08	0.00E+00	1.32E-06	3.79E-07	1.08E-08	0.00E+00	3.89E-07	1.43E-07	3.47E-09	0.00E+00	1.47E-07
506	458354.6	3768589	1.26E-06	5.95E-08	0.00E+00	1.32E-06	1.26E-06	5.95E-08	0.00E+00	1.32E-06	3.76E-07	1.07E-08	0.00E+00	3.87E-07	1.43E-07	3.45E-09	0.00E+00	1.46E-07
507	458351	3768598	1.25E-06	5.91E-08	0.00E+00	1.31E-06	1.25E-06	5.91E-08	0.00E+00	1.31E-06	3.74E-07	1.06E-08	0.00E+00	3.85E-07	1.42E-07	3.43E-09	0.00E+00	1.45E-07
508	458347.4	3768607	1.24E-06	5.87E-08	0.00E+00	1.30E-06	1.24E-06	5.87E-08	0.00E+00	1.30E-06	3.71E-07	1.06E-08	0.00E+00	3.82E-07	1.41E-07	3.41E-09	0.00E+00	1.44E-07
509	458343.8	3768616	1.23E-06	5.82E-08	0.00E+00	1.29E-06	1.23E-06	5.82E-08	0.00E+00	1.29E-06	3.68E-07	1.05E-08	0.00E+00	3.79E-07	1.40E-07	3.38E-09	0.00E+00	1.43E-07
510	458340.2	3768625	1.22E-06	5.77E-08	0.00E+00	1.28E-06	1.22E-06	5.77E-08	0.00E+00	1.28E-06	3.65E-07	1.04E-08	0.00E+00	3.75E-07	1.38E-07	3.35E-09	0.00E+00	1.42E-07
511	458336.6	3768633	1.21E-06	5.71E-08	0.00E+00	1.26E-06	1.21E-06	5.71E-08	0.00E+00	1.26E-06	3.61E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
512	458333	3768642	1.19E-06	5.65E-08	0.00E+00	1.25E-06	1.19E-06	5.65E-08	0.00E+00	1.25E-06	3.57E-07	1.02E-08	0.00E+00	3.68E-07	1.35E-07	3.28E-09	0.00E+00	1.39E-07
513	458329.4	3768651	1.18E-06	5.58E-08	0.00E+00	1.24E-06	1.18E-06	5.58E-08	0.00E+00	1.24E-06	3.53E-07	1.00E-08	0.00E+00	3.63E-07	1.34E-07	3.24E-09	0.00E+00	1.37E-07
514	458325.8	3768660	1.16E-06	5.51E-08	0.00E+00	1.22E-06	1.16E-06	5.51E-08	0.00E+00	1.22E-06	3.49E-07	9.92E-09	0.00E+00	3.59E-07	1.32E-07	3.20E-09	0.00E+00	1.35E-07
515	458322.2	3768669	1.15E-06	5.44E-08	0.00E+00	1.20E-06	1.15E-06	5.44E-08	0.00E+00	1.20E-06	3.44E-07	9.78E-09	0.00E+00	3.54E-07	1.30E-07	3.16E-09	0.00E+00	1.34E-07
516	458318.5	3768678	1.13E-06	5.36E-08	0.00E+00	1.19E-06	1.13E-06	5.36E-08	0.00E+00	1.19E-06	3.39E-07	9.64E-09	0.00E+00	3.49E-07	1.29E-07	3.11E-09	0.00E+00	1.32E-07
517	458314.9	3768687	1.12E-06	5.28E-08	0.00E+00	1.17E-06	1.12E-06	5.28E-08	0.00E+00	1.17E-06	3.34E-07	9.50E-09	0.00E+00	3.44E-07	1.27E-07	3.07E-09	0.00E+00	1.30E-07
518	458311.3	3768696	1.1E-06	5.2E-08	0.00E+00	1.15E-06	1.10E-06	5.20E-08	0.00E+00	1.15E-06	3.29E-07	9.35E-09	0.00E+00	3.38E-07	1.25E-07	3.02E-09	0.00E+00	1.28E-07
519	458307.7	3768705	1.08E-06	5.11E-08	0.00E+00	1.13E-06	1.08E-06	5.11E-08	0.00E+00	1.13E-06	3.23E-07	9.19E-09	0.00E+00	3.33E-07	1.22E-07	2.97E-09	0.00E+00	1.25E-07
520	458304.1	3768714	1.06E-06	5.02E-08	0.00E+00	1.11E-06	1.06E-06	5.02E-08	0.00E+00	1.11E-06	3.18E-07	9.03E-09	0.00E+00	3.27E-07	1.20E-07	2.92E-09	0.00E+00	1.23E-07
521	458300.5	3768723	1.04E-06	4.93E-08	0.00E+00	1.09E-06	1.04E-06	4.93E-08	0.00E+00	1.09E-06	3.12E-07	8.87E-09	0.00E+00	3.21E-07	1.18E-07	2.86E-09	0.00E+00	1.21E-07
522	458296.9	3768732	1.02E-06	4.84E-08	0.00E+00	1.07E-06	1.02E-06	4.84E-08	0.00E+00	1.07E-06	3.06E-07	8.70E-09	0.00E+00	3.15E-07	1.16E-07	2.81E-09	0.00E+00	1.19E-07
523	458293.3	3768741	1E-06	4.74E-08	0.00E+00	1.05E-06	1.00E-06	4.74E-08	0.00E+00	1.05E-06	3.00E-07	8.52E-09	0.00E+00	3.08E-07	1.14E-07	2.75E-09	0.00E+00	1.16E-07
524	458289.7	3768750	9.81E-07	4.64E-08	0.00E+00	1.03E-06	9.81E-07	4.64E-08	0.00E+00	1.03E-06	2.94E-07	8.35E-09	0.00E+00	3.02E-07	1.11E-07	2.70E-09	0.00E+00	1.14E-07
525	458286.1	3768759	9.6E-07	4.55E-08	0.00E+00	1.01E-06	9.60E-07	4.55E-08	0.00E+00	1.01E-06	2.88E-07	8.17E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
526	458282.5	3768767	9.39E-07	4.45E-08	0.00E+00	9.84E-07	9.39E-07	4.45E-08	0.00E+00	9.84E-07	2.81E-07	8.00E-09	0.00E+00	2.89E-07	1.07E-07	2.58E-09	0.00E+00	1.09E-07
527	458278.9	3768776	9.18E-07	4.34E-08	0.00E+00	9.61E-07	9.18E-07	4.34E-08	0.00E+00	9.61E-07	2.75E-07	7.81E-09	0.00E+00	2.83E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
528	458275.3	3768785	8.96E-07	4.24E-08	0.00E+00	9.38E-07	8.96E-07	4.24E-08	0.00E+00	9.38E-07	2.68E-07	7.63E-09	0.00E+00	2.76E-07	1.02E-07	2.46E-09	0.00E+00	1.04E-07
529	458262.8	3768798	8.63E-07	4.09E-08	0.00E+00	9.04E-07	8.63E-07	4.09E-08	0.00E+00	9.04E-07	2.59E-07	7.35E-09	0.00E+00	2.66E-07	9.80E-08	2.37E-09	0.00E+00	1.00E-07
530	458253.9	3768802	8.53E-07	4.04E-08	0.00E+00	8.93E-07	8.53E-07	4.04E-08	0.00E+00	8.93E-07	2.55E-07	7.26E-09	0.00E+00	2.63E-07	9.68E-08	2.34E-09	0.00E+00	9.91E-08
531	458245	3768805	8.42E-07	3.99E-08	0.00E+00	8.82E-07	8.42E-07	3.99E-08	0.00E+00	8.82E-07	2.52E-07	7.17E-09	0.00E+00	2.59E-07	9.55E-08	2.31E-09	0.00E+00	9.79E-08
532	458236.1	3768809	8.31E-07	3.93E-08	0.00E+00	8.70E-07	8.31E-07	3.93E-08	0.00E+00	8.70E-07	2.49E-07	7.07E-09	0.00E+00	2.56E-07	9.42E-08	2.28E-09	0.00E+00	9.65E-08
533	458227.2	3768813	8.18E-07	3.87E-08	0.00E+00	8.57E-07	8.18E-07	3.87E-08	0.00E+00	8.57E-07	2.45E-07	6.97E-09	0.00E+00	2.52E-07	9.28E-08	2.25E-09	0.00E+00	9.51E-08
534	458218.3	3768817	8.05E-07	3.81E-08	0.00E+00	8.43E-07	8.05E-07	3.81E-08	0.00E+00	8.43E-07	2.41E-07	6.86E-09	0.00E+00	2.48E-07	9.14E-08	2.21E-09	0.00E+00	9.36E-08
535	458209.4	3768820	7.92E-07	3.75E-08	0.00E+00	8.29E-07	7.92E-07	3.75E-08	0.00E+00	8.29E-07	2.37E-07	6.74E-09	0.00E+00	2.44E-07	8.98E-08	2.18E-09	0.00E+00	9.20E-08
536	458200.6	3768824	7.78E-07	3.68E-08	0.00E+00	8.15E-07	7.78E-07	3.68E-08	0.00E+00	8.15E-07	2.33E-07	6.62E-09	0.00E+00	2.40E-07	8.83E-08	2.14E-09	0.00E+00	9.04E-08
537	458191.7	3768828	7.65E-07	3.62E-08	0.00E+00	8.01E-07	7.65E-07	3.62E-08	0.00E+00	8.01E-07	2.29E-07	6.51E-09	0.00E+00	2.36E-07	8.67E-08	2.10E-09	0.00E+00	8.88E-08
538	458182.8	3768831	7.51E-07	3.56E-08	0.00E+00	7.87E-07	7.51E-07	3.56E-08	0.00E+00	7.87E-07	2.25E-07	6.39E-09	0.00E+00	2.31E-07	8.52E-08	2.06E-09	0.00E+00	8.73E-08
539	458173.9	3768835	7.37E-07	3.49E-08	0.00E+00	7.72E-07	7.37E-07	3.49E-08	0.00E+00	7.72E-07	2.21E-07	6.28E-09	0.00E+00	2.27E-07	8.36E-08	2.03E-09	0.00E+00	8.57E-08
540	458165	3768839	7.23E-07	3.42E-08	0.00E+00	7.57E-07	7.23E-07	3.42E-08	0.00E+00	7.57E-07	2.16E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.40E-08
541	458156.1	3768843	7.08E-07	3.35E-08	0.00E+00	7.41E-07	7.08E-07	3.35E-08	0.00E+00	7.41E-07	2.12E-07	6.03E-09	0.00E+00	2.18E-07	8.03E-08	1.95E-09	0.00E+00	8.23E-08
542	458147.2	3768846	6.93E-07	3.28E-08	0.00E+00	7.26E-07	6.93E-07	3.28E-08	0.00E+00	7.26E-07	2.08E-07	5.90E-09	0.00E+00	2.14E-07	7.87E-08	1.91E-09	0.00E+00	8.06E-08
543	458102.8	3768865	6.16E-07	2.92E-08	0.00E+00	6.46E-07	6.16E-07	2.92E-08	0.00E+00	6.46E-07	1.85E-07	5.25E-09	0.00E+00	1.90E-07	6.99E-08	1.69E-09	0.00E+00	7.16E-08
544	458093.9	3768869	6.01E-07	2.85E-08	0.00E+00	6.30E-07	6.01E-07	2.85E-08	0.00E+00	6.30E-07	1.80E-07	5.12E-09	0.00E+00	1.85E-07	6.82E-08	1.65E-09	0.00E+00	6.99E-08
545	458085	3768872	5.86E-07	2.78E-08	0.00E+00	6.14E-07	5.86E-07	2.78E-08	0.00E+00	6.14E-07	1.76E-07	4.99E-09	0.00E+00	1.81E-07	6.65E-08	1.61E-09	0.00E+00	6.81E-08
546	458076.2	3768876	5.71E-07	2.71E-08	0.00E+00	5.99E-07	5.71E-07	2.71E-08	0.00E+00	5.99E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.48E-08	1.57E-09	0.00E+00	6.64E-08
547	458067.3	3768880	5.56E-07	2.63E-08	0.00E+00	5.83E-07	5.56E-07	2.63E-08	0.00E+00	5.83E-07	1.67E-07	4.74E-09	0.00E+00	1.71E-07	6.31E-08	1.53E-09	0.00E+00	6.47E-08

548	458058.4	3768883	5.41E-07	2.56E-08	0.00E+00	5.67E-07	5.41E-07	2.56E-08	0.00E+00	5.67E-07	1.62E-07	4.61E-09	0.00E+00	1.67E-07	6.14E-08	1.49E-09	0.00E+00	6.29E-08
549	458049.5	3768887	5.27E-07	2.49E-08	0.00E+00	5.52E-07	5.27E-07	2.49E-08	0.00E+00	5.52E-07	1.58E-07	4.48E-09	0.00E+00	1.62E-07	5.97E-08	1.45E-09	0.00E+00	6.12E-08
550	458040.6	3768891	5.12E-07	2.42E-08	0.00E+00	5.36E-07	5.12E-07	2.42E-08	0.00E+00	5.36E-07	1.53E-07	4.36E-09	0.00E+00	1.58E-07	5.81E-08	1.41E-09	0.00E+00	5.95E-08
551	458031.7	3768895	4.97E-07	2.36E-08	0.00E+00	5.21E-07	4.97E-07	2.36E-08	0.00E+00	5.21E-07	1.49E-07	4.23E-09	0.00E+00	1.53E-07	5.64E-08	1.37E-09	0.00E+00	5.78E-08
552	458022.8	3768898	4.84E-07	2.29E-08	0.00E+00	5.07E-07	4.84E-07	2.29E-08	0.00E+00	5.07E-07	1.45E-07	4.12E-09	0.00E+00	1.49E-07	5.49E-08	1.33E-09	0.00E+00	5.62E-08
553	458013.9	3768902	4.7E-07	2.23E-08	0.00E+00	4.92E-07	4.70E-07	2.23E-08	0.00E+00	4.92E-07	1.41E-07	4.00E-09	0.00E+00	1.45E-07	5.33E-08	1.29E-09	0.00E+00	5.46E-08
554	458005.1	3768906	4.57E-07	2.16E-08	0.00E+00	4.78E-07	4.57E-07	2.16E-08	0.00E+00	4.78E-07	1.37E-07	3.89E-09	0.00E+00	1.41E-07	5.18E-08	1.25E-09	0.00E+00	5.30E-08
555	457996.2	3768909	4.43E-07	2.1E-08	0.00E+00	4.64E-07	4.43E-07	2.10E-08	0.00E+00	4.64E-07	1.33E-07	3.77E-09	0.00E+00	1.37E-07	5.03E-08	1.22E-09	0.00E+00	5.15E-08
556	457987.3	3768913	4.3E-07	2.04E-08	0.00E+00	4.51E-07	4.30E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.66E-09	0.00E+00	1.33E-07	4.88E-08	1.18E-09	0.00E+00	5.00E-08
557	457978.4	3768917	4.18E-07	1.98E-08	0.00E+00	4.38E-07	4.18E-07	1.98E-08	0.00E+00	4.38E-07	1.25E-07	3.56E-09	0.00E+00	1.29E-07	4.74E-08	1.15E-09	0.00E+00	4.86E-08
558	457969.5	3768921	4.06E-07	1.92E-08	0.00E+00	4.25E-07	4.06E-07	1.92E-08	0.00E+00	4.25E-07	1.22E-07	3.45E-09	0.00E+00	1.25E-07	4.60E-08	1.11E-09	0.00E+00	4.71E-08
559	457960.6	3768924	3.94E-07	1.86E-08	0.00E+00	4.12E-07	3.94E-07	1.86E-08	0.00E+00	4.12E-07	1.18E-07	3.35E-09	0.00E+00	1.21E-07	4.47E-08	1.08E-09	0.00E+00	4.58E-08
560	457951.7	3768928	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.15E-07	3.25E-09	0.00E+00	1.18E-07	4.34E-08	1.05E-09	0.00E+00	4.44E-08
561	457942.9	3768932	3.71E-07	1.76E-08	0.00E+00	3.89E-07	3.71E-07	1.76E-08	0.00E+00	3.89E-07	1.11E-07	3.16E-09	0.00E+00	1.14E-07	4.21E-08	1.02E-09	0.00E+00	4.31E-08
562	457934	3768935	3.6E-07	1.71E-08	0.00E+00	3.77E-07	3.60E-07	1.71E-08	0.00E+00	3.77E-07	1.08E-07	3.07E-09	0.00E+00	1.11E-07	4.09E-08	9.90E-10	0.00E+00	4.19E-08
563	457925.1	3768939	3.5E-07	1.66E-08	0.00E+00	3.67E-07	3.50E-07	1.66E-08	0.00E+00	3.67E-07	1.05E-07	2.98E-09	0.00E+00	1.08E-07	3.97E-08	9.62E-10	0.00E+00	4.07E-08
564	457916.2	3768943	3.4E-07	1.61E-08	0.00E+00	3.56E-07	3.40E-07	1.61E-08	0.00E+00	3.56E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.86E-08	9.35E-10	0.00E+00	3.95E-08
565	457907.3	3768947	3.3E-07	1.56E-08	0.00E+00	3.46E-07	3.30E-07	1.56E-08	0.00E+00	3.46E-07	9.89E-08	2.81E-09	0.00E+00	1.02E-07	3.75E-08	9.08E-10	0.00E+00	3.84E-08
566	457898.4	3768950	3.21E-07	1.52E-08	0.00E+00	3.36E-07	3.21E-07	1.52E-08	0.00E+00	3.36E-07	9.61E-08	2.73E-09	0.00E+00	9.89E-08	3.64E-08	8.82E-10	0.00E+00	3.73E-08
567	457889.5	3768954	3.13E-07	1.48E-08	0.00E+00	3.27E-07	3.13E-07	1.48E-08	0.00E+00	3.27E-07	9.37E-08	2.66E-09	0.00E+00	9.63E-08	3.55E-08	8.59E-10	0.00E+00	3.63E-08
568	457880.6	3768958	3.04E-07	1.44E-08	0.00E+00	3.19E-07	3.04E-07	1.44E-08	0.00E+00	3.19E-07	9.12E-08	2.59E-09	0.00E+00	9.38E-08	3.45E-08	8.37E-10	0.00E+00	3.54E-08
569	457871.8	3768961	2.96E-07	1.4E-08	0.00E+00	3.10E-07	2.96E-07	1.40E-08	0.00E+00	3.10E-07	8.87E-08	2.52E-09	0.00E+00	9.13E-08	3.36E-08	8.14E-10	0.00E+00	3.44E-08
570	457862.9	3768965	2.88E-07	1.36E-08	0.00E+00	3.02E-07	2.88E-07	1.36E-08	0.00E+00	3.02E-07	8.63E-08	2.45E-09	0.00E+00	8.87E-08	3.27E-08	7.92E-10	0.00E+00	3.35E-08
571	457854	3768969	2.8E-07	1.33E-08	0.00E+00	2.93E-07	2.80E-07	1.33E-08	0.00E+00	2.93E-07	8.39E-08	2.38E-09	0.00E+00	8.63E-08	3.18E-08	7.70E-10	0.00E+00	3.25E-08
572	457845.1	3768973	2.72E-07	1.29E-08	0.00E+00	2.85E-07	2.72E-07	1.29E-08	0.00E+00	2.85E-07	8.16E-08	2.32E-09	0.00E+00	8.39E-08	3.09E-08	7.49E-10	0.00E+00	3.17E-08
573	457836.2	3768976	2.65E-07	1.26E-08	0.00E+00	2.78E-07	2.65E-07	1.26E-08	0.00E+00	2.78E-07	7.95E-08	2.26E-09	0.00E+00	8.17E-08	3.01E-08	7.29E-10	0.00E+00	3.08E-08
574	457827.3	3768980	2.59E-07	1.23E-08	0.00E+00	2.71E-07	2.59E-07	1.23E-08	0.00E+00	2.71E-07	7.76E-08	2.21E-09	0.00E+00	7.98E-08	2.94E-08	7.12E-10	0.00E+00	3.01E-08
575	457818.4	3768984	2.53E-07	1.2E-08	0.00E+00	2.65E-07	2.53E-07	1.20E-08	0.00E+00	2.65E-07	7.58E-08	2.15E-09	0.00E+00	7.80E-08	2.87E-08	6.96E-10	0.00E+00	2.94E-08
576	457809.6	3768987	2.47E-07	1.17E-08	0.00E+00	2.59E-07	2.47E-07	1.17E-08	0.00E+00	2.59E-07	7.40E-08	2.10E-09	0.00E+00	7.61E-08	2.80E-08	6.79E-10	0.00E+00	2.87E-08
577	457800.7	3768991	2.41E-07	1.14E-08	0.00E+00	2.52E-07	2.41E-07	1.14E-08	0.00E+00	2.52E-07	7.22E-08	2.05E-09	0.00E+00	7.42E-08	2.73E-08	6.62E-10	0.00E+00	2.80E-08
578	457791.8	3768995	2.35E-07	1.11E-08	0.00E+00	2.46E-07	2.35E-07	1.11E-08	0.00E+00	2.46E-07	7.04E-08	2.00E-09	0.00E+00	7.24E-08	2.67E-08	6.46E-10	0.00E+00	2.73E-08
579	457782.9	3768999	2.29E-07	1.09E-08	0.00E+00	2.40E-07	2.29E-07	1.09E-08	0.00E+00	2.40E-07	6.87E-08	1.95E-09	0.00E+00	7.06E-08	2.60E-08	6.30E-10	0.00E+00	2.66E-08
580	457774	3769002	2.24E-07	1.06E-08	0.00E+00	2.35E-07	2.24E-07	1.06E-08	0.00E+00	2.35E-07	6.71E-08	1.91E-09	0.00E+00	6.91E-08	2.54E-08	6.16E-10	0.00E+00	2.60E-08
581	457765.1	3769006	2.2E-07	1.04E-08	0.00E+00	2.30E-07	2.20E-07	1.04E-08	0.00E+00	2.30E-07	6.58E-08	1.87E-09	0.00E+00	6.76E-08	2.49E-08	6.03E-10	0.00E+00	2.55E-08
582	457756.2	3769010	2.15E-07	1.02E-08	0.00E+00	2.25E-07	2.15E-07	1.02E-08	0.00E+00	2.25E-07	6.44E-08	1.83E-09	0.00E+00	6.63E-08	2.44E-08	5.91E-10	0.00E+00	2.50E-08
583	457747.3	3769013	2.11E-07	9.97E-09	0.00E+00	2.21E-07	2.11E-07	9.97E-09	0.00E+00	2.21E-07	6.31E-08	1.79E-09	0.00E+00	6.49E-08	2.39E-08	5.79E-10	0.00E+00	2.45E-08
584	457738.5	3769017	2.06E-07	9.76E-09	0.00E+00	2.16E-07	2.06E-07	9.76E-09	0.00E+00	2.16E-07	6.18E-08	1.76E-09	0.00E+00	6.35E-08	2.34E-08	5.67E-10	0.00E+00	2.40E-08
585	457729.6	3769021	2.02E-07	9.57E-09	0.00E+00	2.12E-07	2.02E-07	9.57E-09	0.00E+00	2.12E-07	6.05E-08	1.72E-09	0.00E+00	6.22E-08	2.29E-08	5.55E-10	0.00E+00	2.35E-08
586	457992.7	3767772	5.36E-07	2.54E-08	0.00E+00	5.61E-07	5.36E-07	2.54E-08	0.00E+00	5.61E-07	1.61E-07	4.56E-09	0.00E+00	1.65E-07	6.08E-08	1.47E-09	0.00E+00	6.23E-08
587	457996.5	3767781	5.43E-07	2.57E-08	0.00E+00	5.69E-07	5.43E-07	2.57E-08	0.00E+00	5.69E-07	1.63E-07	4.63E-09	0.00E+00	1.67E-07	6.16E-08	1.49E-09	0.00E+00	6.31E-08
588	458000.4	3767790	5.51E-07	2.61E-08	0.00E+00	5.77E-07	5.51E-07	2.61E-08	0.00E+00	5.77E-07	1.65E-07	4.69E-09	0.00E+00	1.70E-07	6.25E-08	1.51E-09	0.00E+00	6.41E-08
589	458004.2	3767799	5.6E-07	2.65E-08	0.00E+00	5.86E-07	5.60E-07	2.65E-08	0.00E+00	5.86E-07	1.68E-07	4.77E-09	0.00E+00	1.72E-07	6.35E-08	1.54E-09	0.00E+00	6.51E-08
590	458008	3767808	5.69E-07	2.7E-08	0.00E+00	5.96E-07	5.69E-07	2.70E-08	0.00E+00	5.96E-07	1.71E-07	4.85E-09	0.00E+00	1.75E-07	6.46E-08	1.56E-09	0.00E+00	6.62E-08
591	458011.9	3767817	5.8E-07	2.74E-08	0.00E+00	6.07E-07	5.80E-07	2.74E-08	0.00E+00	6.07E-07	1.74E-07	4.93E-09	0.00E+00	1.79E-07	6.58E-08	1.59E-09	0.00E+00	6.73E-08
592	458015.7	3767826	5.91E-07	2.8E-08	0.00E+00	6.19E-07	5.91E-07	2.80E-08	0.00E+00	6.19E-07	1.77E-07	5.03E-09	0.00E+00	1.82E-07	6.70E-08	1.62E-09	0.00E+00	6.86E-08
593	457991	3767709	4.71E-07	2.23E-08	0.00E+00	4.93E-07	4.71E-07	2.23E-08	0.00E+00	4.93E-07	1.41E-07	4.01E-09	0.00E+00	1.45E-07	5.34E-08	1.29E-09	0.00E+00	5.47E-08
594	458000.1	3767713	4.65E-07	2.2E-08	0.00E+00	4.87E-07	4.65E-07	2.20E-08	0.00E+00	4.87E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.27E-08	1.28E-09	0.00E+00	5.40E-08
595	458013.1	3767725	4.63E-07	2.19E-08	0.00E+00	4.85E-07	4.63E-07	2.19E-08	0.00E+00	4.85E-07	1.39E-07	3.94E-09	0.00E+00	1.43E-07	5.26E-08	1.27E-09	0.00E+00	5.38E-08
596	458017	3767735	4.68E-07	2.22E-08	0.00E+00	4.90E-07	4.68E-07	2.22E-08	0.00E+00	4.90E-07	1.40E-07	3.98E-09	0.00E+00	1.44E-07	5.31E-08	1.29E-09	0.00E+00	5.44E-08
597	458020.8	3767744	4.73E-07	2.24E-08	0.00E+00	4.96E-07	4.73E-07	2.24E-08	0.00E+00	4.96E-07	1.42E-07	4.03E-09	0.00E+00	1.46E-07	5.37E-08	1.30E-09	0.00E+00	5.50E-08
598	458024.7	3767753	4.79E-07	2.27E-08	0.00E+00	5.02E-07	4.79E-07	2.27E-08	0.00E+00	5.02E-07	1.43E-07	4.08E-09	0.00E+00	1.48E-07	5.43E-08	1.32E-09	0.00E+00	5.57E-08
599	458028.5	3767762	4.85E-07	2.3E-08	0.00E+00	5.08E-07	4.85E-07	2.30E-08	0.00E+00	5.08E-07	1.45E-07	4.13E-09	0.00E+00	1.49E-07	5.50E-08	1.33E-09	0.00E+00	5.64E-08
600	458032.4	3767771	4.92E-07	2.33E-08	0.00E+00	5.15E-07	4.92E-07	2.33E-08	0.00E+00	5.15E-07	1.47E-07	4.19E-09	0.00E+00	1.51E-07	5.58E-08	1.35E-09	0.00E+00	5.71E-08
601	458036.2	3767780	4.99E-07	2.36E-08	0.00E+00	5.23E-07	4.99E-07	2.36E-08	0.00E+00	5.23E-07	1.49E-07	4.25E-09	0.00E+00	1.54E-07	5.66E-08	1.37E-09	0.00E+00	5.80E-08
602	458040.1	3767789	5.07E-07	2.4E-08	0.00E+00	5.31E-07	5.07E-07	2.40E-08	0.00E+00	5.31E-07	1.52E-07	4.31E-09	0.00E+00	1.56E-07	5.75E-08	1.39E-09	0.00E+00	5.89E-08
603	458043.9	3767798	5.15E-07	2.44E-08	0.00E+00	5.40E-07	5.15E-07	2.44E-08	0.00E+00	5.40E-07	1.54E-07	4.39E-09	0.00E+00	1.59E-07	5.85E-08	1.42E-09	0.00E+00	5.99E-08
604	458047.8	3767807	5.25E-07	2.48E-08	0.00E+00	5.49E-07	5.25E-07	2.48E-08	0.00E+00	5.49E-07	1.57E-07	4.47E-09	0.00E+00	1.62E-07	5.95E-08	1.44E-09	0.00E+00	6.10E-08
605	458051.6	3767816	5.34E-07	2.53E-08	0.00E+00	5.60E-07	5.34E-07	2.53E-08	0.00E+00	5.60E-07	1.60E-07	4.55E-09	0.00E+00	1.65E-07	6.06E-08	1.47E-09	0.00E+00	6.21E-08
606	458055.5	3767825	5.45E-07	2.58E-08	0.00E+00	5.71E-07	5.45E-07	2.58E-08	0.00E+00	5.71E-07	1.63E-07	4.64E-09	0.00E+00	1.68E-07	6.18E-08	1.50E-09	0.00E+00	6.33E-08
607	457708.6	3767553	7.76E-07	3.67E-08	0.00E+00	8.12E-07	7.76E-07	3.67E-08	0.00E+00	8.12E-07	2.32E-07	6.60E-09	0.00E+00	2.39E-07	8.80E-08	2.13E-09	0.00E+00	9.01E-08
608	457717.7	3767557	7.61E-07	3.61E-08	0.00E+00	7.97E-07	7.61E-07	3.61E-08	0.00E+00	7.97E-07	2.28E-07	6.48E-09	0.00E+00	2.35E-07	8.64E-08	2.09E-09	0.00E+00	8.85E-08
609	457726.8	3767561	7.47E-07	3.54E-08	0.00E+00	7.83E-07	7.47E-07	3.54E-08	0.00E+00	7.83E-07	2.24E-07	6.36E-09	0.00E+00	2.30E-07	8.48E-08	2.05E-09	0.00E+00	8.68E-08
610	457736	3767565	7.33E-07	3.47E-08	0.00E+00	7.68E-07	7.33E-07	3.47E-08	0.00E+00	7.68E-07	2.20E-07	6.24E-09	0.00E+00	2.26E-07	8.32E-08	2.01E-09	0.00E+00	8.52E-08
611	457745.1	3767568	7.19E-07	3.4E-08	0.00E+00	7.53E-07	7.19E-07	3.40E-08	0.00E+00	7.53E-07	2.15E-07	6.12E-09	0.00E+00	2.21E-07	8.16E-08	1.98E-09	0.00E+00	8.36E-08
612	457754.2	3767572	7.05E-07	3.34E-08	0.00E+00	7.39E-07	7.05E-07	3.34E-08	0.00E+00	7.39E-07	2.11E-07	6.00E-09	0.00E+00	2.17E-07	8.00E-08	1.94E-09	0.00E+00	8.19E-08
613	457991.7	3767669	4.38E-07	2.07E-08	0.00E+00	4.59E-07	4.38E-07	2.07E-08	0.00E+00	4.59E-07	1.31E-07	3.73E-09	0.00E+00	1.35E-07	4.97E-08	1.20E-09	0.00E+00	5.09E-08
614	458000.8	3767673	4.32E-07	2.04E-08	0.00E+00	4.52E-07	4.32E-07	2.04E-08	0.00E+00	4.52E-07	1.29E-07	3.68E-09	0.00E+00	1.33E-07	4.90E-08	1.19E-09	0.00E+00	5.02E-08
615	458010	3767677	4.26E-07	2.02E-08	0.00E+00	4.46E-07	4.26E-07	2.02E-08	0.00E+00	4.46E-07	1.28E-07	3.62E-09	0.00E+00	1.31E-07	4.83E-08	1.17E-09	0.00E+00	4.95E-08
616	458019.1	3767680	4.2E-07	1.99E-08	0.00E+00	4.40E-07	4.20E-07	1.99E-08	0.00E+00	4.40E-07	1.26E-07	3.58E-09	0.00E+00	1.29E-07	4.77E-08	1.15E-09	0.00E+00	4.88E-08
617	458028.2	3767684	4.15E-07	1.96E-08	0.00E+00	4.35E-07	4.15E-07	1.96E-08	0.00E+00	4.35E-07	1.24E-07	3.53E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.82E-08
618	458041.2	3767697	4.13E-07	1.96E-08	0.00E+00	4.33E-07	4.13E-07	1.96E-08	0.00E+00	4.33E-07	1.24E-07	3.52E-09	0.00E+00	1.27E-07	4.69E-08	1.14E-09	0.00E+00	4.80E-08
619	458045.1	3767706	4.17E-07	1.98E-08	0.00E+00	4.37E-07	4.17E-07	1.98E-08	0.00E+00	4.37E-07	1.25E-07	3.55E-09	0.00E+00	1.29E-07	4.74E-08	1.15E-09	0.00E+00	4.85E-08
620	458048.9	3767715	4.22E-07	2E-08	0.00E+00	4.42E-07	4.22E-07	2.00E-08	0.00E+00	4.42E-07	1.26E-07	3.59E-09	0.00E+00	1.30E-07	4.78E-08	1.16E-09	0.00E+00	4.90E-08
621	458052.8	3767724	4.26E-07	2.02E-08	0.00E+00	4.46E-07	4.26E-07	2.02E-08	0.00E+00	4.46E-07	1.28E-07	3.63E-09	0.00E+00	1.31E-07	4.83E-08	1.17E-09	0.00E+00	4.95E-08
622	458056.7	3767733	4.31E-07	2.04E-08	0.00E+00	4.51E-07	4.31E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.89E-08	1.18E-09	0.00E+00	5.01E-08
623	458060.5	3767742	4.36E-07	2.06E-08	0.00E+00	4.57E-07	4.36E-07	2.06E-08	0.00E+00	4.57E-07	1.31E-07	3.71E-09	0.00E+00	1.34E-07	4.95E-08	1.20E-09	0.00E+00	5.07E-08
624	458064.4	3767752	4.42E-07	2.09E-08	0.00E+00	4.63E-07	4.42E-07	2.09E-08	0.00E+00	4.63E-07	1.32E-07	3.76E-09	0.00E+00	1.36E-07	5.01E-08	1.21E-09	0.00E+00	5.13E-08
625	458068.2	3767761	4.48E-07	2.12E-08	0.00E+00	4.69E-07	4.48E-07	2.12E-08	0.00E+00	4.69E-07	1.34E-07	3.81E-09	0.00E+00	1.38E-07	5.08E-08	1.23E-09	0.00E+00	5.21E-08
626	458072.1	3767770	4.55E-07	2.15E-08	0.00E+00	4.76E-07	4.55E-07	2.15E-08	0.00E+00	4.76E-07	1.36E-07	3.87E-09	0.00E+00	1.40E-07	5.16E-08	1.25E-09	0.00E+00	5.28E-08
627	458076	3767779	4.62E-07	2.19E-08	0.00E+00	4.84E-07	4.62E-07	2.19E-08	0.00E+00	4.84E-07	1.38E-07	3.93E-09	0.00E+00	1.42E-07	5.24E-08	1.27E-09	0.00E+00	5.37E-08
628	458079.8	3767788	4.7E-07	2.22E-08	0.00E+00	4.92E-07	4.70E-07	2.22E-08	0.00E+00	4.92E-07	1.41E-07	4.00E-09	0.00E+00	1.45E-07	5.33E-08	1.29E-09	0.00E+00	5.46E-08
629	458083.7	3767797	4.78E-07	2.26E-08	0.00E+00	5.01E-07	4.78E-07	2.26E-08	0.00E+00	5.01E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.42E-08	1.31E-09	0.00E+00	5.55E-08
630	458087.5	3767806	4.87E-07	2.31E-08	0.00E+00	5.10E-07	4.87E-07	2.31E-08	0.00E+00	5.10E-07	1.46E-07	4.15E-09	0.00E+00	1.50E-07	5.52E-08	1.34E-09	0.00E+00	5.66E-08
631	458091.4	3767815	4.97E-07	2.35E-08	0.00E+00	5.20E-07	4.97E-07	2.35E-08	0.00E+00	5.20E-07	1.49E-07	4.23E-09	0.00E+00	1.53E-07	5.63E-08	1.36E-09	0.00E+00	5.77E-08
632	458095.3	3767824	5.07E-07	2.4E-08	0.00E+00	5.31E-07	5.07E-07	2.40E-08	0.00E+00	5.31E-07	1.52E-07	4.31E-09	0.00E+00	1.56E-07	5.75E-08	1.39E-09	0.00E+00	5.89E-08
633	457699.4	3767550	7.9E-07	3.74E-08	0.00E+00	8.27E-07	7.90E-07	3.74E-08	0.00E+00	8.27E-07	2.37E-07	6.73E-09	0.00E+00	2.43E-07	8.96E-08	2.17E-09	0.00E+00	9.18E-08
634	457689.5	3767550	8.13E-07	3.85E-08	0.00E+00	8.52E-07	8.13E-07	3.85E-08	0.00E+00	8.52E-07	2.44E-07	6.92E-09	0.00E+00	2.50E-07	9.22E-08	2.23E-09	0.00E+00	9.45E-08
635	457679.5	3767550	8.37E-07	3.96E-08	0.00E+00	8.76E-07	8.37E-07	3.96E-08	0.00E+00	8.76E-07	2.51E-07	7.12E-09	0.00E+00	2.58E-07	9.49E-08	2.30E-09	0.00E+00	9.72E-08
636	457669.6	3767550	8.61E-07	4.08E-08	0.00E+00	9.02E-07	8.61E-07	4.08E-08	0.00E+00	9.02E-07	2.58E-07	7.33E-09	0.00E+00	2.65E-07	9.77E-08	2.37E-09	0.00E+00	1.00E-07
637	457659.7	3767550	8.85E-07	4.19E-08	0.00E+00	9.27E-07	8.85E-07	4.19E-08	0.00E+00	9.27E-07	2.65E-07	7.54E-09	0.00E+00	2.73E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
638	457649.7	3767550	9.1E-07	4.31E-08	0.00E+00	9.54E-07	9.10E-07	4.31E-08	0.00E+00	9.54E-07	2.73E-07	7.75E-09	0.00E+00	2.80E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
639	457639.8	3767550	9.36E-07	4.43E-08	0.00E+00	9.80E-07	9.36E-07	4.43E-08	0.00E+00	9.80E-07	2.80E-07	7.97E-09	0.00E+00	2.88E-07	1.06E-07	2.57E-09	0.00E+00	1.09E-07
640	457629.8	3767550	9.61E-07	4.55E-08	0.00E+00	1.01E-06	9.61E-07	4.55E-08	0.00E+00	1.01E-06	2.88E-07	8.19E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
641	457619.9	3767550	9.87E-07	4.68E-08	0.00E+00	1.03E-06	9.87E-07	4.68E-08	0.00E+00	1.03E-06	2.96E-07	8.41E-09	0.00E+00	3.04E-07	1.12E-07	2.71E-09	0.00E+00	1.15E-07
642	457609.9	3767550	1.01E-06	4.8E-08	0.00E+00	1.06E-06	1.01E-06	4.80E-08	0.00E+00	1.06E-06	3.04E-07	8.63E-09	0.00E+00	3.12E-07	1.15E-07	2.79E-09	0.00E+00	1.18E-07
643	457600	3767550	1.04E-06	4.93E-08	0.00E+00	1.09E-06	1.04E-06	4.93E-08	0.00E+00	1.09E-06	3.12E-07	8.86E-09	0.00E+00	3.20E-07	1.18E-07	2.86E-09	0.00E+00	1.21E-07
644	457590	3767550	1.07E-06	5.05E-08	0.00E+00	1.12E-06	1.07E-06	5.05E-08	0.00E+00	1.12E-06	3.20E-07	9.08E-09	0.00E+00	3.29E-07	1.21E-07	2.93E-09	0.00E+00	1.24E-07
645	457580.1	3767550	1.09E-06	5.18E-08	0.00E+00	1.15E-06	1.09E-06	5.18E-08	0.00E+00	1.15E-06	3.28E-07	9.31E-09	0.00E+00	3.37E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
646	457570.1	3767550	1.12E-06	5.31E-08	0.00E+00	1.17E-06	1.12E-06	5.31E-08	0.00E+00	1.17E-06	3.36E-07	9.54E-09	0.00E+00	3.45E-07	1.27E-07	3.08E-09	0.00E+00	1.30E-07
647	457560.2	3767550	1.15E-06	5.43E-08	0.00E+00	1.20E-06	1.15E-06	5.43E-08	0.00E+00	1.20E-06	3.44E-07	9.77E-09	0.00E+00	3.53E-07	1.30E-07	3.15E-09	0.00E+00	1.33E-07
648	457550.2	3767550	1.17E-06	5.56E-08	0.00E+00	1.23E-06	1.17E-06	5.56E-08	0.00E+00	1.23E-06	3.52E-07	1.00E-08	0.00E+00	3.62E-07	1.33E-07	3.23E-09	0.00E+00	1.36E-07
649	457540.3	3767550	1.2E-06	5.68E-08	0.00E+00	1.26E-06	1.20E-06	5.68E-08	0.00E+00	1.26E-06	3.60E-07	1.02E-08	0.00E+00	3.70E-07	1.36E-07	3.30E-09	0.00E+00	1.40E-07
650	457530.3	3767550	1.23E-06	5.81E-08	0.00E+00	1.28E-06	1.23E-06	5.81E-08	0.00E+00	1.28E-06	3.67E-07	1.04E-08	0.00E+00	3.78E-07	1.39E-07	3.37E-09	0.00E+00	1.43E-07
651	457520.4	3767550	1.25E-06	5.93E-08	0.00E+00	1.31E-06	1.25E-06	5.93E-08	0.00E+00	1.31E-06	3.75E-07	1.07E-08	0.00E+00	3.86E-07	1.42E-07	3.44E-09	0.00E+00	1.46E-07
652	457510.4	3767550	1.28E-06	6.05E-08	0.00E+00	1.34E-06	1.28E-06	6.05E-08	0.00E+00	1.34E-06	3.83E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.51E-09	0.00E+00	1.48E-07
653	457500.5	3767550	1.3E-06	6.17E-08	0.00E+00	1.36E-06	1.30E-06	6.17E-08	0.00E+00	1.36E-06	3.90E-07	1.11E-08	0.00E+00	4.01E-07	1.48E-07	3.58E-09	0.00E+00	1.51E-07
654	457490.5	3767550	1.33E-06	6.28E-08	0.00E+00	1.39E-06	1.33E-06	6.28E-08	0.00E+00	1.39E-06	3.97E-07	1.13E-08	0.00E+00	4.09E-07	1.50E-07	3.65E-09	0.00E+00	1.54E-07
655	457480.6	3767550	1.35E-06	6.39E-08	0.00E+00	1.41E-06	1.35E-06	6.39E-08	0.00E+00	1.41E-06	4.04E-07	1.15E-08	0.00E+00	4.16E-07	1.53E-07	3.71E-09	0.00E+00	1.57E-07
656	457470.6	3767550	1.37E-06	6.5E-08	0.00E+00	1.44E-06	1.37E-06	6.50E-08	0.00E+00	1.44E-06	4.11E-07	1.17E-08	0.00E+00	4.23E-07	1.56E-07	3.77E-09	0.00E+00	1.59E-07
657	457460.7	3767550	1.39E-06	6.6E-08	0.00E+00	1.46E-06	1.39E-06	6.60E-08	0.00E+00	1.46E-06	4.18E-07	1.19E-08	0.00E+00	4.29E-07	1.58E-07	3.83E-09	0.00E+00	1.62E-07

658	457450.7	3767550	1.42E-06	6.7E-08	0.00E+00	1.48E-06	1.42E-06	6.70E-08	0.00E+00	1.48E-06	4.24E-07	1.20E-08	0.00E+00	4.36E-07	1.61E-07	3.89E-09	0.00E+00	1.64E-07
659	457440.8	3767550	1.44E-06	6.79E-08	0.00E+00	1.50E-06	1.44E-06	6.79E-08	0.00E+00	1.50E-06	4.30E-07	1.22E-08	0.00E+00	4.42E-07	1.63E-07	3.94E-09	0.00E+00	1.67E-07
660	457430.8	3767550	1.45E-06	6.88E-08	0.00E+00	1.52E-06	1.45E-06	6.88E-08	0.00E+00	1.52E-06	4.35E-07	1.24E-08	0.00E+00	4.48E-07	1.65E-07	4.00E-09	0.00E+00	1.69E-07
661	457420.9	3767550	1.47E-06	6.97E-08	0.00E+00	1.54E-06	1.47E-06	6.97E-08	0.00E+00	1.54E-06	4.41E-07	1.25E-08	0.00E+00	4.53E-07	1.67E-07	4.04E-09	0.00E+00	1.71E-07
662	457410.9	3767550	1.49E-06	7.05E-08	0.00E+00	1.56E-06	1.49E-06	7.05E-08	0.00E+00	1.56E-06	4.46E-07	1.27E-08	0.00E+00	4.58E-07	1.69E-07	4.09E-09	0.00E+00	1.73E-07
663	457401	3767550	1.5E-06	7.12E-08	0.00E+00	1.57E-06	1.50E-06	7.12E-08	0.00E+00	1.57E-06	4.50E-07	1.28E-08	0.00E+00	4.63E-07	1.71E-07	4.13E-09	0.00E+00	1.75E-07
664	457391	3767550	1.52E-06	7.18E-08	0.00E+00	1.59E-06	1.52E-06	7.18E-08	0.00E+00	1.59E-06	4.54E-07	1.29E-08	0.00E+00	4.67E-07	1.72E-07	4.17E-09	0.00E+00	1.76E-07
665	457381.1	3767550	1.53E-06	7.24E-08	0.00E+00	1.60E-06	1.53E-06	7.24E-08	0.00E+00	1.60E-06	4.58E-07	1.30E-08	0.00E+00	4.71E-07	1.74E-07	4.20E-09	0.00E+00	1.78E-07
666	457371.1	3767550	1.54E-06	7.3E-08	0.00E+00	1.61E-06	1.54E-06	7.30E-08	0.00E+00	1.61E-06	4.62E-07	1.31E-08	0.00E+00	4.75E-07	1.75E-07	4.23E-09	0.00E+00	1.79E-07
667	457361.2	3767550	1.55E-06	7.34E-08	0.00E+00	1.62E-06	1.55E-06	7.34E-08	0.00E+00	1.62E-06	4.64E-07	1.32E-08	0.00E+00	4.78E-07	1.76E-07	4.26E-09	0.00E+00	1.80E-07
668	457351.2	3767550	1.56E-06	7.38E-08	0.00E+00	1.63E-06	1.56E-06	7.38E-08	0.00E+00	1.63E-06	4.67E-07	1.33E-08	0.00E+00	4.80E-07	1.77E-07	4.28E-09	0.00E+00	1.81E-07
669	457341.3	3767550	1.57E-06	7.41E-08	0.00E+00	1.64E-06	1.57E-06	7.41E-08	0.00E+00	1.64E-06	4.69E-07	1.33E-08	0.00E+00	4.82E-07	1.78E-07	4.30E-09	0.00E+00	1.82E-07
670	457331.3	3767550	1.57E-06	7.44E-08	0.00E+00	1.65E-06	1.57E-06	7.44E-08	0.00E+00	1.65E-06	4.70E-07	1.34E-08	0.00E+00	4.84E-07	1.78E-07	4.32E-09	0.00E+00	1.83E-07
671	457321.4	3767550	1.57E-06	7.46E-08	0.00E+00	1.65E-06	1.57E-06	7.46E-08	0.00E+00	1.65E-06	4.72E-07	1.34E-08	0.00E+00	4.85E-07	1.79E-07	4.33E-09	0.00E+00	1.83E-07
672	457708.5	3767513	7.12E-07	3.37E-08	0.00E+00	7.46E-07	7.12E-07	3.37E-08	0.00E+00	7.46E-07	2.13E-07	6.06E-09	0.00E+00	2.19E-07	8.08E-08	1.96E-09	0.00E+00	8.28E-08
673	457717.7	3767517	7E-07	3.31E-08	0.00E+00	7.33E-07	7.00E-07	3.31E-08	0.00E+00	7.33E-07	2.10E-07	5.96E-09	0.00E+00	2.16E-07	7.94E-08	1.92E-09	0.00E+00	8.13E-08
674	457726.8	3767521	6.87E-07	3.25E-08	0.00E+00	7.20E-07	6.87E-07	3.25E-08	0.00E+00	7.20E-07	2.06E-07	5.85E-09	0.00E+00	2.12E-07	7.80E-08	1.89E-09	0.00E+00	7.99E-08
675	457736	3767525	6.75E-07	3.2E-08	0.00E+00	7.07E-07	6.75E-07	3.20E-08	0.00E+00	7.07E-07	2.02E-07	5.75E-09	0.00E+00	2.08E-07	7.66E-08	1.86E-09	0.00E+00	7.84E-08
676	457745.1	3767528	6.63E-07	3.14E-08	0.00E+00	6.94E-07	6.63E-07	3.14E-08	0.00E+00	6.94E-07	1.99E-07	5.64E-09	0.00E+00	2.04E-07	7.52E-08	1.82E-09	0.00E+00	7.70E-08
677	457754.3	3767532	6.51E-07	3.08E-08	0.00E+00	6.82E-07	6.51E-07	3.08E-08	0.00E+00	6.82E-07	1.95E-07	5.54E-09	0.00E+00	2.00E-07	7.38E-08	1.79E-09	0.00E+00	7.56E-08
678	457763.4	3767536	6.39E-07	3.03E-08	0.00E+00	6.69E-07	6.39E-07	3.03E-08	0.00E+00	6.69E-07	1.91E-07	5.44E-09	0.00E+00	1.97E-07	7.25E-08	1.76E-09	0.00E+00	7.43E-08
679	457772.6	3767540	6.27E-07	2.97E-08	0.00E+00	6.57E-07	6.27E-07	2.97E-08	0.00E+00	6.57E-07	1.88E-07	5.34E-09	0.00E+00	1.93E-07	7.12E-08	1.72E-09	0.00E+00	7.29E-08
680	457781.7	3767543	6.15E-07	2.91E-08	0.00E+00	6.45E-07	6.15E-07	2.91E-08	0.00E+00	6.45E-07	1.84E-07	5.24E-09	0.00E+00	1.90E-07	6.98E-08	1.69E-09	0.00E+00	7.15E-08
681	457790.9	3767547	6.04E-07	2.86E-08	0.00E+00	6.33E-07	6.04E-07	2.86E-08	0.00E+00	6.33E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.85E-08	1.66E-09	0.00E+00	7.02E-08
682	457800.1	3767551	5.93E-07	2.81E-08	0.00E+00	6.21E-07	5.93E-07	2.81E-08	0.00E+00	6.21E-07	1.77E-07	5.05E-09	0.00E+00	1.83E-07	6.72E-08	1.63E-09	0.00E+00	6.89E-08
683	457809.2	3767555	5.81E-07	2.75E-08	0.00E+00	6.09E-07	5.81E-07	2.75E-08	0.00E+00	6.09E-07	1.74E-07	4.95E-09	0.00E+00	1.79E-07	6.60E-08	1.60E-09	0.00E+00	6.76E-08
684	457818.4	3767558	5.71E-07	2.7E-08	0.00E+00	5.98E-07	5.71E-07	2.70E-08	0.00E+00	5.98E-07	1.71E-07	4.86E-09	0.00E+00	1.76E-07	6.47E-08	1.57E-09	0.00E+00	6.63E-08
685	457827.5	3767562	5.6E-07	2.65E-08	0.00E+00	5.86E-07	5.60E-07	2.65E-08	0.00E+00	5.86E-07	1.68E-07	4.77E-09	0.00E+00	1.72E-07	6.35E-08	1.54E-09	0.00E+00	6.51E-08
686	457836.7	3767566	5.49E-07	2.6E-08	0.00E+00	5.75E-07	5.49E-07	2.60E-08	0.00E+00	5.75E-07	1.65E-07	4.68E-09	0.00E+00	1.69E-07	6.23E-08	1.51E-09	0.00E+00	6.38E-08
687	457845.8	3767570	5.39E-07	2.55E-08	0.00E+00	5.65E-07	5.39E-07	2.55E-08	0.00E+00	5.65E-07	1.61E-07	4.59E-09	0.00E+00	1.66E-07	6.12E-08	1.48E-09	0.00E+00	6.27E-08
688	457855	3767573	5.29E-07	2.51E-08	0.00E+00	5.54E-07	5.29E-07	2.51E-08	0.00E+00	5.54E-07	1.59E-07	4.51E-09	0.00E+00	1.63E-07	6.00E-08	1.45E-09	0.00E+00	6.15E-08
689	457864.1	3767577	5.2E-07	2.46E-08	0.00E+00	5.44E-07	5.20E-07	2.46E-08	0.00E+00	5.44E-07	1.56E-07	4.42E-09	0.00E+00	1.60E-07	5.89E-08	1.43E-09	0.00E+00	6.04E-08
690	457992.2	3767630	4.1E-07	1.94E-08	0.00E+00	4.29E-07	4.10E-07	1.94E-08	0.00E+00	4.29E-07	1.23E-07	3.49E-09	0.00E+00	1.26E-07	4.65E-08	1.13E-09	0.00E+00	4.76E-08
691	458001.4	3767633	4.04E-07	1.91E-08	0.00E+00	4.23E-07	4.04E-07	1.91E-08	0.00E+00	4.23E-07	1.21E-07	3.44E-09	0.00E+00	1.24E-07	4.58E-08	1.11E-09	0.00E+00	4.70E-08
692	458010.5	3767637	3.98E-07	1.89E-08	0.00E+00	4.17E-07	3.98E-07	1.89E-08	0.00E+00	4.17E-07	1.19E-07	3.39E-09	0.00E+00	1.23E-07	4.52E-08	1.09E-09	0.00E+00	4.63E-08
693	458019.7	3767641	3.93E-07	1.86E-08	0.00E+00	4.12E-07	3.93E-07	1.86E-08	0.00E+00	4.12E-07	1.18E-07	3.34E-09	0.00E+00	1.21E-07	4.46E-08	1.08E-09	0.00E+00	4.57E-08
694	458028.8	3767644	3.88E-07	1.84E-08	0.00E+00	4.06E-07	3.88E-07	1.84E-08	0.00E+00	4.06E-07	1.16E-07	3.30E-09	0.00E+00	1.19E-07	4.40E-08	1.07E-09	0.00E+00	4.51E-08
695	458038	3767648	3.83E-07	1.81E-08	0.00E+00	4.01E-07	3.83E-07	1.81E-08	0.00E+00	4.01E-07	1.15E-07	3.26E-09	0.00E+00	1.18E-07	4.34E-08	1.05E-09	0.00E+00	4.45E-08
696	458047.1	3767652	3.78E-07	1.79E-08	0.00E+00	3.96E-07	3.78E-07	1.79E-08	0.00E+00	3.96E-07	1.13E-07	3.22E-09	0.00E+00	1.16E-07	4.29E-08	1.04E-09	0.00E+00	4.39E-08
697	458056.3	3767656	3.73E-07	1.77E-08	0.00E+00	3.91E-07	3.73E-07	1.77E-08	0.00E+00	3.91E-07	1.12E-07	3.18E-09	0.00E+00	1.15E-07	4.24E-08	1.03E-09	0.00E+00	4.34E-08
698	458069.3	3767669	3.72E-07	1.76E-08	0.00E+00	3.90E-07	3.72E-07	1.76E-08	0.00E+00	3.90E-07	1.11E-07	3.17E-09	0.00E+00	1.15E-07	4.22E-08	1.02E-09	0.00E+00	4.32E-08
699	458073.2	3767678	3.75E-07	1.78E-08	0.00E+00	3.93E-07	3.75E-07	1.78E-08	0.00E+00	3.93E-07	1.12E-07	3.19E-09	0.00E+00	1.16E-07	4.26E-08	1.03E-09	0.00E+00	4.36E-08
700	458077.1	3767687	3.79E-07	1.79E-08	0.00E+00	3.96E-07	3.79E-07	1.79E-08	0.00E+00	3.96E-07	1.13E-07	3.22E-09	0.00E+00	1.17E-07	4.29E-08	1.04E-09	0.00E+00	4.40E-08
701	458080.9	3767696	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.14E-07	3.25E-09	0.00E+00	1.18E-07	4.34E-08	1.05E-09	0.00E+00	4.44E-08
702	458084.8	3767705	3.86E-07	1.83E-08	0.00E+00	4.04E-07	3.86E-07	1.83E-08	0.00E+00	4.04E-07	1.16E-07	3.29E-09	0.00E+00	1.19E-07	4.38E-08	1.06E-09	0.00E+00	4.49E-08
703	458088.7	3767714	3.9E-07	1.85E-08	0.00E+00	4.09E-07	3.90E-07	1.85E-08	0.00E+00	4.09E-07	1.17E-07	3.32E-09	0.00E+00	1.20E-07	4.43E-08	1.07E-09	0.00E+00	4.54E-08
704	458092.5	3767723	3.95E-07	1.87E-08	0.00E+00	4.14E-07	3.95E-07	1.87E-08	0.00E+00	4.14E-07	1.18E-07	3.36E-09	0.00E+00	1.22E-07	4.48E-08	1.09E-09	0.00E+00	4.59E-08
705	457699.4	3767510	7.25E-07	3.43E-08	0.00E+00	7.59E-07	7.25E-07	3.43E-08	0.00E+00	7.59E-07	2.17E-07	6.17E-09	0.00E+00	2.23E-07	8.22E-08	1.99E-09	0.00E+00	8.42E-08
706	457689.4	3767510	7.44E-07	3.52E-08	0.00E+00	7.80E-07	7.44E-07	3.52E-08	0.00E+00	7.80E-07	2.23E-07	6.34E-09	0.00E+00	2.29E-07	8.45E-08	2.05E-09	0.00E+00	8.65E-08
707	457679.5	3767510	7.65E-07	3.62E-08	0.00E+00	8.01E-07	7.65E-07	3.62E-08	0.00E+00	8.01E-07	2.29E-07	6.51E-09	0.00E+00	2.36E-07	8.68E-08	2.10E-09	0.00E+00	8.89E-08
708	457669.5	3767510	7.86E-07	3.72E-08	0.00E+00	8.23E-07	7.86E-07	3.72E-08	0.00E+00	8.23E-07	2.35E-07	6.69E-09	0.00E+00	2.42E-07	8.91E-08	2.16E-09	0.00E+00	9.13E-08
709	457659.6	3767510	8.07E-07	3.82E-08	0.00E+00	8.45E-07	8.07E-07	3.82E-08	0.00E+00	8.45E-07	2.42E-07	6.87E-09	0.00E+00	2.49E-07	9.15E-08	2.22E-09	0.00E+00	9.37E-08
710	457649.6	3767510	8.28E-07	3.92E-08	0.00E+00	8.67E-07	8.28E-07	3.92E-08	0.00E+00	8.67E-07	2.48E-07	7.05E-09	0.00E+00	2.55E-07	9.40E-08	2.28E-09	0.00E+00	9.62E-08
711	457639.7	3767510	8.5E-07	4.02E-08	0.00E+00	8.90E-07	8.50E-07	4.02E-08	0.00E+00	8.90E-07	2.55E-07	7.23E-09	0.00E+00	2.62E-07	9.64E-08	2.34E-09	0.00E+00	9.87E-08
712	457629.7	3767510	8.72E-07	4.13E-08	0.00E+00	9.13E-07	8.72E-07	4.13E-08	0.00E+00	9.13E-07	2.61E-07	7.42E-09	0.00E+00	2.69E-07	9.89E-08	2.40E-09	0.00E+00	1.01E-07
713	457619.8	3767510	8.94E-07	4.23E-08	0.00E+00	9.36E-07	8.94E-07	4.23E-08	0.00E+00	9.36E-07	2.68E-07	7.61E-09	0.00E+00	2.75E-07	1.01E-07	2.46E-09	0.00E+00	1.04E-07
714	457609.8	3767510	9.17E-07	4.34E-08	0.00E+00	9.60E-07	9.17E-07	4.34E-08	0.00E+00	9.60E-07	2.75E-07	7.80E-09	0.00E+00	2.82E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
715	457599.9	3767510	9.4E-07	4.45E-08	0.00E+00	9.84E-07	9.40E-07	4.45E-08	0.00E+00	9.84E-07	2.81E-07	8.00E-09	0.00E+00	2.89E-07	1.07E-07	2.58E-09	0.00E+00	1.09E-07
716	457589.9	3767510	9.63E-07	4.56E-08	0.00E+00	1.01E-06	9.63E-07	4.56E-08	0.00E+00	1.01E-06	2.88E-07	8.19E-09	0.00E+00	2.97E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
717	457580	3767510	9.86E-07	4.67E-08	0.00E+00	1.03E-06	9.86E-07	4.67E-08	0.00E+00	1.03E-06	2.95E-07	8.39E-09	0.00E+00	3.04E-07	1.12E-07	2.71E-09	0.00E+00	1.15E-07
718	457570	3767510	1.01E-06	4.78E-08	0.00E+00	1.06E-06	1.01E-06	4.78E-08	0.00E+00	1.06E-06	3.02E-07	8.59E-09	0.00E+00	3.11E-07	1.14E-07	2.77E-09	0.00E+00	1.17E-07
719	457560.1	3767510	1.03E-06	4.89E-08	0.00E+00	1.08E-06	1.03E-06	4.89E-08	0.00E+00	1.08E-06	3.09E-07	8.78E-09	0.00E+00	3.18E-07	1.17E-07	2.84E-09	0.00E+00	1.20E-07
720	457550.1	3767510	1.05E-06	4.99E-08	0.00E+00	1.10E-06	1.05E-06	4.99E-08	0.00E+00	1.10E-06	3.16E-07	8.98E-09	0.00E+00	3.25E-07	1.20E-07	2.90E-09	0.00E+00	1.23E-07
721	457540.2	3767510	1.08E-06	5.1E-08	0.00E+00	1.13E-06	1.08E-06	5.10E-08	0.00E+00	1.13E-06	3.23E-07	9.17E-09	0.00E+00	3.32E-07	1.22E-07	2.96E-09	0.00E+00	1.25E-07
722	457530.3	3767510	1.1E-06	5.21E-08	0.00E+00	1.15E-06	1.10E-06	5.21E-08	0.00E+00	1.15E-06	3.29E-07	9.36E-09	0.00E+00	3.39E-07	1.25E-07	3.02E-09	0.00E+00	1.28E-07
723	457520.3	3767510	1.12E-06	5.31E-08	0.00E+00	1.18E-06	1.12E-06	5.31E-08	0.00E+00	1.18E-06	3.36E-07	9.55E-09	0.00E+00	3.46E-07	1.27E-07	3.08E-09	0.00E+00	1.30E-07
724	457510.4	3767510	1.14E-06	5.42E-08	0.00E+00	1.20E-06	1.14E-06	5.42E-08	0.00E+00	1.20E-06	3.43E-07	9.74E-09	0.00E+00	3.52E-07	1.30E-07	3.14E-09	0.00E+00	1.33E-07
725	457500.4	3767510	1.17E-06	5.52E-08	0.00E+00	1.22E-06	1.17E-06	5.52E-08	0.00E+00	1.22E-06	3.49E-07	9.93E-09	0.00E+00	3.59E-07	1.32E-07	3.20E-09	0.00E+00	1.35E-07
726	457490.5	3767510	1.19E-06	5.62E-08	0.00E+00	1.24E-06	1.19E-06	5.62E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.66E-07	1.35E-07	3.26E-09	0.00E+00	1.38E-07
727	457480.5	3767510	1.21E-06	5.72E-08	0.00E+00	1.26E-06	1.21E-06	5.72E-08	0.00E+00	1.26E-06	3.62E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
728	457470.6	3767510	1.23E-06	5.81E-08	0.00E+00	1.29E-06	1.23E-06	5.81E-08	0.00E+00	1.29E-06	3.68E-07	1.04E-08	0.00E+00	3.78E-07	1.39E-07	3.37E-09	0.00E+00	1.43E-07
729	457460.6	3767510	1.25E-06	5.9E-08	0.00E+00	1.31E-06	1.25E-06	5.90E-08	0.00E+00	1.31E-06	3.73E-07	1.06E-08	0.00E+00	3.84E-07	1.41E-07	3.43E-09	0.00E+00	1.45E-07
730	457450.7	3767510	1.27E-06	5.99E-08	0.00E+00	1.33E-06	1.27E-06	5.99E-08	0.00E+00	1.33E-06	3.79E-07	1.08E-08	0.00E+00	3.90E-07	1.44E-07	3.48E-09	0.00E+00	1.47E-07
731	457440.7	3767510	1.28E-06	6.07E-08	0.00E+00	1.34E-06	1.28E-06	6.07E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.46E-07	3.53E-09	0.00E+00	1.49E-07
732	457430.8	3767510	1.3E-06	6.16E-08	0.00E+00	1.36E-06	1.30E-06	6.16E-08	0.00E+00	1.36E-06	3.89E-07	1.11E-08	0.00E+00	4.00E-07	1.47E-07	3.57E-09	0.00E+00	1.51E-07
733	457420.8	3767510	1.32E-06	6.23E-08	0.00E+00	1.38E-06	1.32E-06	6.23E-08	0.00E+00	1.38E-06	3.94E-07	1.12E-08	0.00E+00	4.05E-07	1.49E-07	3.62E-09	0.00E+00	1.53E-07
734	457410.9	3767510	1.33E-06	6.3E-08	0.00E+00	1.39E-06	1.33E-06	6.30E-08	0.00E+00	1.39E-06	3.99E-07	1.13E-08	0.00E+00	4.10E-07	1.51E-07	3.66E-09	0.00E+00	1.55E-07
735	457400.9	3767510	1.35E-06	6.37E-08	0.00E+00	1.41E-06	1.35E-06	6.37E-08	0.00E+00	1.41E-06	4.03E-07	1.15E-08	0.00E+00	4.14E-07	1.53E-07	3.70E-09	0.00E+00	1.56E-07
736	457391	3767510	1.36E-06	6.43E-08	0.00E+00	1.42E-06	1.36E-06	6.43E-08	0.00E+00	1.42E-06	4.07E-07	1.16E-08	0.00E+00	4.18E-07	1.54E-07	3.73E-09	0.00E+00	1.58E-07
737	457381	3767510	1.37E-06	6.49E-08	0.00E+00	1.44E-06	1.37E-06	6.49E-08	0.00E+00	1.44E-06	4.11E-07	1.17E-08	0.00E+00	4.22E-07	1.56E-07	3.77E-09	0.00E+00	1.59E-07
738	457371.1	3767510	1.38E-06	6.54E-08	0.00E+00	1.45E-06	1.38E-06	6.54E-08	0.00E+00	1.45E-06	4.14E-07	1.18E-08	0.00E+00	4.26E-07	1.57E-07	3.80E-09	0.00E+00	1.61E-07
739	457361.1	3767510	1.39E-06	6.59E-08	0.00E+00	1.46E-06	1.39E-06	6.59E-08	0.00E+00	1.46E-06	4.17E-07	1.18E-08	0.00E+00	4.29E-07	1.58E-07	3.82E-09	0.00E+00	1.62E-07
740	457351.2	3767510	1.4E-06	6.63E-08	0.00E+00	1.47E-06	1.40E-06	6.63E-08	0.00E+00	1.47E-06	4.19E-07	1.19E-08	0.00E+00	4.31E-07	1.59E-07	3.85E-09	0.00E+00	1.63E-07
741	457341.2	3767510	1.41E-06	6.67E-08	0.00E+00	1.47E-06	1.41E-06	6.67E-08	0.00E+00	1.47E-06	4.22E-07	1.20E-08	0.00E+00	4.34E-07	1.60E-07	3.87E-09	0.00E+00	1.64E-07
742	457331.3	3767510	1.41E-06	6.7E-08	0.00E+00	1.48E-06	1.41E-06	6.70E-08	0.00E+00	1.48E-06	4.24E-07	1.20E-08	0.00E+00	4.36E-07	1.60E-07	3.89E-09	0.00E+00	1.64E-07
743	457321.3	3767510	1.42E-06	6.72E-08	0.00E+00	1.49E-06	1.42E-06	6.72E-08	0.00E+00	1.49E-06	4.25E-07	1.21E-08	0.00E+00	4.37E-07	1.61E-07	3.90E-09	0.00E+00	1.65E-07
744	457708.5	3767473	6.56E-07	3.11E-08	0.00E+00	6.87E-07	6.56E-07	3.11E-08	0.00E+00	6.87E-07	1.97E-07	5.59E-09	0.00E+00	2.02E-07	7.44E-08	1.80E-09	0.00E+00	7.62E-08
745	457717.7	3767477	6.45E-07	3.06E-08	0.00E+00	6.76E-07	6.45E-07	3.06E-08	0.00E+00	6.76E-07	1.93E-07	5.49E-09	0.00E+00	1.99E-07	7.32E-08	1.77E-09	0.00E+00	7.50E-08
746	457726.8	3767481	6.35E-07	3.01E-08	0.00E+00	6.65E-07	6.35E-07	3.01E-08	0.00E+00	6.65E-07	1.90E-07	5.40E-09	0.00E+00	1.96E-07	7.20E-08	1.74E-09	0.00E+00	7.38E-08
747	457736	3767485	6.24E-07	2.95E-08	0.00E+00	6.54E-07	6.24E-07	2.95E-08	0.00E+00	6.54E-07	1.87E-07	5.31E-09	0.00E+00	1.92E-07	7.08E-08	1.72E-09	0.00E+00	7.25E-08
748	457745.2	3767488	6.13E-07	2.9E-08	0.00E+00	6.42E-07	6.13E-07	2.90E-08	0.00E+00	6.42E-07	1.84E-07	5.22E-09	0.00E+00	1.89E-07	6.96E-08	1.69E-09	0.00E+00	7.13E-08
749	457754.3	3767492	6.03E-07	2.85E-08	0.00E+00	6.31E-07	6.03E-07	2.85E-08	0.00E+00	6.31E-07	1.81E-07	5.13E-09	0.00E+00	1.86E-07	6.84E-08	1.66E-09	0.00E+00	7.00E-08
750	457763.5	3767496	5.92E-07	2.8E-08	0.00E+00	6.20E-07	5.92E-07	2.80E-08	0.00E+00	6.20E-07	1.77E-07	5.04E-09	0.00E+00	1.82E-07	6.72E-08	1.63E-09	0.00E+00	6.88E-08
751	457772.7	3767500	5.82E-07	2.76E-08	0.00E+00	6.10E-07	5.82E-07	2.76E-08	0.00E+00	6.10E-07	1.74E-07	4.95E-09	0.00E+00	1.79E-07	6.60E-08	1.60E-09	0.00E+00	6.76E-08
752	457781.8	3767503	5.72E-07	2.71E-08	0.00E+00	5.99E-07	5.72E-07	2.71E-08	0.00E+00	5.99E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.49E-08	1.57E-09	0.00E+00	6.64E-08
753	457791	3767507	5.62E-07	2.66E-08	0.00E+00	5.88E-07	5.62E-07	2.66E-08	0.00E+00	5.88E-07	1.68E-07	4.78E-09	0.00E+00	1.73E-07	6.37E-08	1.54E-09	0.00E+00	6.53E-08
754	457800.2	3767511	5.52E-07	2.61E-08	0.00E+00	5.78E-07	5.52E-07	2.61E-08	0.00E+00	5.78E-07	1.65E-07	4.70E-09	0.00E+00	1.70E-07	6.26E-08	1.52E-09	0.00E+00	6.41E-08
755	457809.3	3767515	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.62E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
756	457818.5	3767518	5.32E-07	2.52E-08	0.00E+00	5.58E-07	5.32E-07	2.52E-08	0.00E+00	5.58E-07	1.59E-07	4.53E-09	0.00E+00	1.64E-07	6.04E-08	1.46E-09	0.00E+00	6.19E-08
757	457827.7	3767522	5.23E-07	2.48E-08	0.00E+00	5.48E-07	5.23E-07	2.48E-08	0.00E+00	5.48E-07	1.57E-07	4.45E-09	0.00E+00	1.61E-07	5.93E-08	1.44E-09	0.00E+00	6.08E-08
758	457836.8	3767526	5.14E-07	2.43E-08	0.00E+00	5.38E-07	5.14E-07	2.43E-08	0.00E+00	5.38E-07	1.54E-07	4.37E-09	0.00E+00	1.58E-07	5.83E-08	1.41E-09	0.00E+00	5.97E-08
759	457846	3767530	5.04E-07	2.39E-08	0.00E+00	5.28E-07	5.04E-07	2.39E-08	0.00E+00	5.28E-07	1.51E-07	4.29E-09	0.00E+00	1.55E-07	5.72E-08	1.39E-09	0.00E+00	5.86E-08
760	457855.2	3767533	4.95E-07	2.35E-08	0.00E+00	5.19E-07	4.95E-07	2.35E-08	0.00E+00	5.19E-07	1.48E-07	4.22E-09	0.00E+00	1.53E-07	5.62E-08	1.36E-09	0.00E+00	5.76E-08
761	457864.3	3767537	4.87E-07	2.3E-08	0.00E+00	5.10E-07	4.87E-07	2.30E-08	0.00E+00	5.10E-07	1.46E-07	4.14E-09	0.00E+00	1.50E-07	5.52E-08	1.34E-09	0.00E+00	5.66E-08
762	457873.5	3767541	4.78E-07	2.26E-08	0.00E+00	5.01E-07	4.78E-07	2.26E-08	0.00E+00	5.01E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.43E-08	1.31E-09	0.00E+00	5.56E-08
763	457882.7	3767545	4.7E-07	2.23E-08	0.00E+00	4.92E-07	4.70E-07	2.23E-08	0.00E+00	4.92E-07	1.41E-07	4.00E-09	0.00E+00	1.45E-07	5.33E-08	1.29E-09	0.00E+00	5.46E-08
764	457891.9	3767548	4.62E-07	2.19E-08	0.00E+00	4.84E-07	4.62E-07	2.19E-08	0.00E+00	4.84E-07	1.38E-07	3.93E-09	0.00E+00	1.42E-07	5.24E-08	1.27E-09	0.00E+00	5.37E-08
765	457901	3767552	4.54E-07	2.15E-08	0.00E+00	4.75E-07	4.54E-07	2.15E-08	0.00E+00	4.75E-07	1.36E-07	3.86E-09	0.00E+00	1.40E-07	5.15E-08	1.25E-09	0.00E+00	5.27E-08
766	457910.2	3767556	4.46E-07	2.11E-08	0.00E+00	4.67E-07	4.46E-07	2.11E-08	0.00E+00	4.67E-07	1.34E-07	3.80E-09	0.00E+00	1.37E-07	5.06E-08	1.23E-09	0.00E+00	5.18E-08
767	457919.4	3767560	4.39E-07	2.08E-08	0.00E+00	4.59E-07	4.39E-07	2.08E-08	0.00E+00	4.59E-07	1.31E-07	3.73E-09	0.00E+00	1.35E-07	4.98E-08	1.21E-09	0.00E+00	5.10E-08

768	457928.5	3767563	4.31E-07	2.04E-08	0.00E+00	4.52E-07	4.31E-07	2.04E-08	0.00E+00	4.52E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.89E-08	1.19E-09	0.00E+00	5.01E-08
769	457937.7	3767567	4.24E-07	2.01E-08	0.00E+00	4.44E-07	4.24E-07	2.01E-08	0.00E+00	4.44E-07	1.27E-07	3.61E-09	0.00E+00	1.31E-07	4.81E-08	1.17E-09	0.00E+00	4.93E-08
770	457946.9	3767571	4.17E-07	1.98E-08	0.00E+00	4.37E-07	4.17E-07	1.98E-08	0.00E+00	4.37E-07	1.25E-07	3.55E-09	0.00E+00	1.29E-07	4.73E-08	1.15E-09	0.00E+00	4.85E-08
771	457956	3767575	4.11E-07	1.94E-08	0.00E+00	4.30E-07	4.11E-07	1.94E-08	0.00E+00	4.30E-07	1.23E-07	3.50E-09	0.00E+00	1.26E-07	4.66E-08	1.13E-09	0.00E+00	4.77E-08
772	457965.2	3767578	4.04E-07	1.91E-08	0.00E+00	4.23E-07	4.04E-07	1.91E-08	0.00E+00	4.23E-07	1.21E-07	3.44E-09	0.00E+00	1.24E-07	4.59E-08	1.11E-09	0.00E+00	4.70E-08
773	458047.7	3767612	3.55E-07	1.68E-08	0.00E+00	3.72E-07	3.55E-07	1.68E-08	0.00E+00	3.72E-07	1.06E-07	3.02E-09	0.00E+00	1.09E-07	4.03E-08	9.76E-10	0.00E+00	4.13E-08
774	458056.9	3767616	3.51E-07	1.66E-08	0.00E+00	3.67E-07	3.51E-07	1.66E-08	0.00E+00	3.67E-07	1.05E-07	2.98E-09	0.00E+00	1.08E-07	3.98E-08	9.63E-10	0.00E+00	4.07E-08
775	458066	3767620	3.46E-07	1.64E-08	0.00E+00	3.63E-07	3.46E-07	1.64E-08	0.00E+00	3.63E-07	1.04E-07	2.95E-09	0.00E+00	1.07E-07	3.93E-08	9.52E-10	0.00E+00	4.02E-08
776	458075.2	3767624	3.42E-07	1.62E-08	0.00E+00	3.58E-07	3.42E-07	1.62E-08	0.00E+00	3.58E-07	1.02E-07	2.91E-09	0.00E+00	1.05E-07	3.88E-08	9.40E-10	0.00E+00	3.98E-08
777	458084.4	3767627	3.38E-07	1.6E-08	0.00E+00	3.54E-07	3.38E-07	1.60E-08	0.00E+00	3.54E-07	1.01E-07	2.88E-09	0.00E+00	1.04E-07	3.84E-08	9.30E-10	0.00E+00	3.93E-08
778	457699.3	3767470	6.67E-07	3.16E-08	0.00E+00	6.98E-07	6.67E-07	3.16E-08	0.00E+00	6.98E-07	2.00E-07	5.68E-09	0.00E+00	2.05E-07	7.57E-08	1.83E-09	0.00E+00	7.75E-08
779	457689.4	3767470	6.84E-07	3.24E-08	0.00E+00	7.17E-07	6.84E-07	3.24E-08	0.00E+00	7.17E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.76E-08	1.88E-09	0.00E+00	7.95E-08
780	457679.4	3767470	7.02E-07	3.32E-08	0.00E+00	7.35E-07	7.02E-07	3.32E-08	0.00E+00	7.35E-07	2.10E-07	5.98E-09	0.00E+00	2.16E-07	7.96E-08	1.93E-09	0.00E+00	8.16E-08
781	457669.5	3767470	7.2E-07	3.41E-08	0.00E+00	7.54E-07	7.20E-07	3.41E-08	0.00E+00	7.54E-07	2.16E-07	6.13E-09	0.00E+00	2.22E-07	8.17E-08	1.98E-09	0.00E+00	8.37E-08
782	457659.5	3767470	7.38E-07	3.5E-08	0.00E+00	7.73E-07	7.38E-07	3.50E-08	0.00E+00	7.73E-07	2.21E-07	6.29E-09	0.00E+00	2.27E-07	8.38E-08	2.03E-09	0.00E+00	8.58E-08
783	457649.6	3767470	7.57E-07	3.58E-08	0.00E+00	7.93E-07	7.57E-07	3.58E-08	0.00E+00	7.93E-07	2.27E-07	6.44E-09	0.00E+00	2.33E-07	8.59E-08	2.08E-09	0.00E+00	8.80E-08
784	457639.6	3767470	7.76E-07	3.67E-08	0.00E+00	8.13E-07	7.76E-07	3.67E-08	0.00E+00	8.13E-07	2.32E-07	6.61E-09	0.00E+00	2.39E-07	8.80E-08	2.13E-09	0.00E+00	9.02E-08
785	457629.7	3767470	7.95E-07	3.76E-08	0.00E+00	8.33E-07	7.95E-07	3.76E-08	0.00E+00	8.33E-07	2.38E-07	6.77E-09	0.00E+00	2.45E-07	9.02E-08	2.19E-09	0.00E+00	9.24E-08
786	457619.7	3767470	8.15E-07	3.86E-08	0.00E+00	8.53E-07	8.15E-07	3.86E-08	0.00E+00	8.53E-07	2.44E-07	6.93E-09	0.00E+00	2.51E-07	9.24E-08	2.24E-09	0.00E+00	9.46E-08
787	457609.8	3767470	8.34E-07	3.95E-08	0.00E+00	8.74E-07	8.34E-07	3.95E-08	0.00E+00	8.74E-07	2.50E-07	7.10E-09	0.00E+00	2.57E-07	9.46E-08	2.29E-09	0.00E+00	9.69E-08
788	457599.8	3767470	8.54E-07	4.04E-08	0.00E+00	8.94E-07	8.54E-07	4.04E-08	0.00E+00	8.94E-07	2.56E-07	7.27E-09	0.00E+00	2.63E-07	9.69E-08	2.35E-09	0.00E+00	9.92E-08
789	457589.9	3767470	8.74E-07	4.14E-08	0.00E+00	9.15E-07	8.74E-07	4.14E-08	0.00E+00	9.15E-07	2.62E-07	7.44E-09	0.00E+00	2.69E-07	9.91E-08	2.40E-09	0.00E+00	1.02E-07
790	457579.9	3767470	8.94E-07	4.23E-08	0.00E+00	9.36E-07	8.94E-07	4.23E-08	0.00E+00	9.36E-07	2.68E-07	7.61E-09	0.00E+00	2.75E-07	1.01E-07	2.46E-09	0.00E+00	1.04E-07
791	457570	3767470	9.13E-07	4.33E-08	0.00E+00	9.57E-07	9.13E-07	4.33E-08	0.00E+00	9.57E-07	2.74E-07	7.78E-09	0.00E+00	2.81E-07	1.04E-07	2.51E-09	0.00E+00	1.06E-07
792	457560	3767470	9.34E-07	4.42E-08	0.00E+00	9.78E-07	9.34E-07	4.42E-08	0.00E+00	9.78E-07	2.80E-07	7.95E-09	0.00E+00	2.88E-07	1.06E-07	2.57E-09	0.00E+00	1.08E-07
793	457550.1	3767470	9.53E-07	4.51E-08	0.00E+00	9.99E-07	9.53E-07	4.51E-08	0.00E+00	9.99E-07	2.86E-07	8.12E-09	0.00E+00	2.94E-07	1.08E-07	2.62E-09	0.00E+00	1.11E-07
794	457540.1	3767470	9.73E-07	4.61E-08	0.00E+00	1.02E-06	9.73E-07	4.61E-08	0.00E+00	1.02E-06	2.92E-07	8.29E-09	0.00E+00	3.00E-07	1.10E-07	2.67E-09	0.00E+00	1.13E-07
795	457530.2	3767470	9.93E-07	4.7E-08	0.00E+00	1.04E-06	9.93E-07	4.70E-08	0.00E+00	1.04E-06	2.97E-07	8.45E-09	0.00E+00	3.06E-07	1.13E-07	2.73E-09	0.00E+00	1.15E-07
796	457520.2	3767470	1.01E-06	4.79E-08	0.00E+00	1.06E-06	1.01E-06	4.79E-08	0.00E+00	1.06E-06	3.03E-07	8.62E-09	0.00E+00	3.12E-07	1.15E-07	2.78E-09	0.00E+00	1.18E-07
797	457510.3	3767470	1.03E-06	4.88E-08	0.00E+00	1.08E-06	1.03E-06	4.88E-08	0.00E+00	1.08E-06	3.09E-07	8.78E-09	0.00E+00	3.18E-07	1.17E-07	2.84E-09	0.00E+00	1.20E-07
798	457500.3	3767470	1.05E-06	4.97E-08	0.00E+00	1.10E-06	1.05E-06	4.97E-08	0.00E+00	1.10E-06	3.15E-07	8.94E-09	0.00E+00	3.24E-07	1.19E-07	2.89E-09	0.00E+00	1.22E-07
799	457490.4	3767470	1.07E-06	5.06E-08	0.00E+00	1.12E-06	1.07E-06	5.06E-08	0.00E+00	1.12E-06	3.20E-07	9.10E-09	0.00E+00	3.29E-07	1.21E-07	2.94E-09	0.00E+00	1.24E-07
800	457480.4	3767470	1.09E-06	5.15E-08	0.00E+00	1.14E-06	1.09E-06	5.15E-08	0.00E+00	1.14E-06	3.26E-07	9.25E-09	0.00E+00	3.35E-07	1.23E-07	2.99E-09	0.00E+00	1.26E-07
801	457470.5	3767470	1.1E-06	5.23E-08	0.00E+00	1.16E-06	1.10E-06	5.23E-08	0.00E+00	1.16E-06	3.31E-07	9.41E-09	0.00E+00	3.40E-07	1.25E-07	3.04E-09	0.00E+00	1.28E-07
802	457460.5	3767470	1.12E-06	5.31E-08	0.00E+00	1.18E-06	1.12E-06	5.31E-08	0.00E+00	1.18E-06	3.36E-07	9.55E-09	0.00E+00	3.46E-07	1.27E-07	3.08E-09	0.00E+00	1.30E-07
803	457450.6	3767470	1.14E-06	5.39E-08	0.00E+00	1.19E-06	1.14E-06	5.39E-08	0.00E+00	1.19E-06	3.41E-07	9.69E-09	0.00E+00	3.51E-07	1.29E-07	3.13E-09	0.00E+00	1.32E-07
804	457440.6	3767470	1.15E-06	5.47E-08	0.00E+00	1.21E-06	1.15E-06	5.47E-08	0.00E+00	1.21E-06	3.46E-07	9.83E-09	0.00E+00	3.56E-07	1.31E-07	3.17E-09	0.00E+00	1.34E-07
805	457430.7	3767470	1.17E-06	5.54E-08	0.00E+00	1.23E-06	1.17E-06	5.54E-08	0.00E+00	1.23E-06	3.50E-07	9.96E-09	0.00E+00	3.60E-07	1.33E-07	3.21E-09	0.00E+00	1.36E-07
806	457420.8	3767470	1.18E-06	5.61E-08	0.00E+00	1.24E-06	1.18E-06	5.61E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.65E-07	1.34E-07	3.25E-09	0.00E+00	1.38E-07
807	457410.8	3767470	1.2E-06	5.67E-08	0.00E+00	1.25E-06	1.20E-06	5.67E-08	0.00E+00	1.25E-06	3.59E-07	1.02E-08	0.00E+00	3.69E-07	1.36E-07	3.29E-09	0.00E+00	1.39E-07
808	457400.9	3767470	1.21E-06	5.74E-08	0.00E+00	1.27E-06	1.21E-06	5.74E-08	0.00E+00	1.27E-06	3.63E-07	1.03E-08	0.00E+00	3.73E-07	1.37E-07	3.33E-09	0.00E+00	1.41E-07
809	457390.9	3767470	1.22E-06	5.79E-08	0.00E+00	1.28E-06	1.22E-06	5.79E-08	0.00E+00	1.28E-06	3.66E-07	1.04E-08	0.00E+00	3.77E-07	1.39E-07	3.36E-09	0.00E+00	1.42E-07
810	457381	3767470	1.24E-06	5.85E-08	0.00E+00	1.29E-06	1.24E-06	5.85E-08	0.00E+00	1.29E-06	3.70E-07	1.05E-08	0.00E+00	3.80E-07	1.40E-07	3.39E-09	0.00E+00	1.44E-07
811	457371	3767470	1.25E-06	5.9E-08	0.00E+00	1.30E-06	1.25E-06	5.90E-08	0.00E+00	1.30E-06	3.73E-07	1.06E-08	0.00E+00	3.84E-07	1.41E-07	3.42E-09	0.00E+00	1.45E-07
812	457361.1	3767470	1.26E-06	5.94E-08	0.00E+00	1.31E-06	1.26E-06	5.94E-08	0.00E+00	1.31E-06	3.76E-07	1.07E-08	0.00E+00	3.87E-07	1.42E-07	3.45E-09	0.00E+00	1.46E-07
813	457351.1	3767470	1.26E-06	5.98E-08	0.00E+00	1.32E-06	1.26E-06	5.98E-08	0.00E+00	1.32E-06	3.78E-07	1.08E-08	0.00E+00	3.89E-07	1.43E-07	3.47E-09	0.00E+00	1.47E-07
814	457341.2	3767470	1.27E-06	6.02E-08	0.00E+00	1.33E-06	1.27E-06	6.02E-08	0.00E+00	1.33E-06	3.81E-07	1.08E-08	0.00E+00	3.92E-07	1.44E-07	3.49E-09	0.00E+00	1.48E-07
815	457331.2	3767470	1.28E-06	6.05E-08	0.00E+00	1.34E-06	1.28E-06	6.05E-08	0.00E+00	1.34E-06	3.83E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.51E-09	0.00E+00	1.49E-07
816	457321.3	3767470	1.28E-06	6.08E-08	0.00E+00	1.34E-06	1.28E-06	6.08E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.46E-07	3.53E-09	0.00E+00	1.49E-07
817	457745.2	3767448	5.7E-07	2.7E-08	0.00E+00	5.97E-07	5.70E-07	2.70E-08	0.00E+00	5.97E-07	1.71E-07	4.85E-09	0.00E+00	1.76E-07	6.47E-08	1.57E-09	0.00E+00	6.62E-08
818	457754.4	3767452	5.61E-07	2.65E-08	0.00E+00	5.87E-07	5.61E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.51E-08
819	457763.5	3767456	5.51E-07	2.61E-08	0.00E+00	5.77E-07	5.51E-07	2.61E-08	0.00E+00	5.77E-07	1.65E-07	4.69E-09	0.00E+00	1.70E-07	6.26E-08	1.52E-09	0.00E+00	6.41E-08
820	457772.7	3767460	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.62E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
821	457781.9	3767463	5.33E-07	2.52E-08	0.00E+00	5.58E-07	5.33E-07	2.52E-08	0.00E+00	5.58E-07	1.60E-07	4.54E-09	0.00E+00	1.64E-07	6.05E-08	1.47E-09	0.00E+00	6.20E-08
822	457791.1	3767467	5.24E-07	2.48E-08	0.00E+00	5.49E-07	5.24E-07	2.48E-08	0.00E+00	5.49E-07	1.57E-07	4.46E-09	0.00E+00	1.61E-07	5.95E-08	1.44E-09	0.00E+00	6.09E-08
823	457800.3	3767471	5.15E-07	2.44E-08	0.00E+00	5.40E-07	5.15E-07	2.44E-08	0.00E+00	5.40E-07	1.54E-07	4.39E-09	0.00E+00	1.59E-07	5.85E-08	1.42E-09	0.00E+00	5.99E-08
824	457809.4	3767475	5.07E-07	2.4E-08	0.00E+00	5.31E-07	5.07E-07	2.40E-08	0.00E+00	5.31E-07	1.52E-07	4.31E-09	0.00E+00	1.56E-07	5.75E-08	1.39E-09	0.00E+00	5.89E-08
825	457818.6	3767478	4.98E-07	2.36E-08	0.00E+00	5.22E-07	4.98E-07	2.36E-08	0.00E+00	5.22E-07	1.49E-07	4.24E-09	0.00E+00	1.53E-07	5.65E-08	1.37E-09	0.00E+00	5.79E-08
826	457827.8	3767482	4.9E-07	2.32E-08	0.00E+00	5.13E-07	4.90E-07	2.32E-08	0.00E+00	5.13E-07	1.47E-07	4.17E-09	0.00E+00	1.51E-07	5.56E-08	1.35E-09	0.00E+00	5.69E-08
827	457837	3767486	4.82E-07	2.28E-08	0.00E+00	5.04E-07	4.82E-07	2.28E-08	0.00E+00	5.04E-07	1.44E-07	4.10E-09	0.00E+00	1.48E-07	5.46E-08	1.32E-09	0.00E+00	5.60E-08
828	457846.2	3767490	4.73E-07	2.24E-08	0.00E+00	4.96E-07	4.73E-07	2.24E-08	0.00E+00	4.96E-07	1.42E-07	4.03E-09	0.00E+00	1.46E-07	5.37E-08	1.30E-09	0.00E+00	5.50E-08
829	457855.4	3767494	4.65E-07	2.2E-08	0.00E+00	4.87E-07	4.65E-07	2.20E-08	0.00E+00	4.87E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
830	457864.5	3767497	4.57E-07	2.17E-08	0.00E+00	4.79E-07	4.57E-07	2.17E-08	0.00E+00	4.79E-07	1.37E-07	3.89E-09	0.00E+00	1.41E-07	5.19E-08	1.26E-09	0.00E+00	5.32E-08
831	457873.7	3767501	4.5E-07	2.13E-08	0.00E+00	4.71E-07	4.50E-07	2.13E-08	0.00E+00	4.71E-07	1.35E-07	3.83E-09	0.00E+00	1.39E-07	5.10E-08	1.24E-09	0.00E+00	5.23E-08
832	457882.9	3767505	4.42E-07	2.09E-08	0.00E+00	4.63E-07	4.42E-07	2.09E-08	0.00E+00	4.63E-07	1.32E-07	3.76E-09	0.00E+00	1.36E-07	5.02E-08	1.22E-09	0.00E+00	5.14E-08
833	457892.1	3767509	4.35E-07	2.06E-08	0.00E+00	4.55E-07	4.35E-07	2.06E-08	0.00E+00	4.55E-07	1.30E-07	3.70E-09	0.00E+00	1.34E-07	4.93E-08	1.19E-09	0.00E+00	5.05E-08
834	457901.3	3767512	4.28E-07	2.02E-08	0.00E+00	4.48E-07	4.28E-07	2.02E-08	0.00E+00	4.48E-07	1.28E-07	3.64E-09	0.00E+00	1.32E-07	4.85E-08	1.18E-09	0.00E+00	4.97E-08
835	457910.5	3767516	4.21E-07	1.99E-08	0.00E+00	4.40E-07	4.21E-07	1.99E-08	0.00E+00	4.40E-07	1.26E-07	3.58E-09	0.00E+00	1.30E-07	4.77E-08	1.16E-09	0.00E+00	4.89E-08
836	457919.6	3767520	4.14E-07	1.96E-08	0.00E+00	4.33E-07	4.14E-07	1.96E-08	0.00E+00	4.33E-07	1.24E-07	3.52E-09	0.00E+00	1.27E-07	4.69E-08	1.14E-09	0.00E+00	4.81E-08
837	457928.8	3767524	4.07E-07	1.93E-08	0.00E+00	4.26E-07	4.07E-07	1.93E-08	0.00E+00	4.26E-07	1.22E-07	3.47E-09	0.00E+00	1.25E-07	4.62E-08	1.12E-09	0.00E+00	4.73E-08
838	457938	3767527	4E-07	1.9E-08	0.00E+00	4.19E-07	4.00E-07	1.90E-08	0.00E+00	4.19E-07	1.20E-07	3.41E-09	0.00E+00	1.23E-07	4.54E-08	1.10E-09	0.00E+00	4.65E-08
839	457947.2	3767531	3.94E-07	1.87E-08	0.00E+00	4.13E-07	3.94E-07	1.87E-08	0.00E+00	4.13E-07	1.18E-07	3.36E-09	0.00E+00	1.21E-07	4.47E-08	1.08E-09	0.00E+00	4.58E-08
840	457956.4	3767535	3.88E-07	1.84E-08	0.00E+00	4.06E-07	3.88E-07	1.84E-08	0.00E+00	4.06E-07	1.16E-07	3.30E-09	0.00E+00	1.19E-07	4.40E-08	1.07E-09	0.00E+00	4.51E-08
841	457965.5	3767539	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.14E-07	3.25E-09	0.00E+00	1.18E-07	4.33E-08	1.05E-09	0.00E+00	4.44E-08
842	457974.7	3767542	3.76E-07	1.78E-08	0.00E+00	3.94E-07	3.76E-07	1.78E-08	0.00E+00	3.94E-07	1.13E-07	3.20E-09	0.00E+00	1.16E-07	4.27E-08	1.03E-09	0.00E+00	4.37E-08
843	457983.9	3767546	3.7E-07	1.75E-08	0.00E+00	3.88E-07	3.70E-07	1.75E-08	0.00E+00	3.88E-07	1.11E-07	3.15E-09	0.00E+00	1.14E-07	4.20E-08	1.02E-09	0.00E+00	4.30E-08
844	457993.1	3767550	3.65E-07	1.73E-08	0.00E+00	3.82E-07	3.65E-07	1.73E-08	0.00E+00	3.82E-07	1.09E-07	3.11E-09	0.00E+00	1.12E-07	4.14E-08	1.00E-09	0.00E+00	4.24E-08
845	458002.3	3767554	3.59E-07	1.7E-08	0.00E+00	3.77E-07	3.59E-07	1.70E-08	0.00E+00	3.77E-07	1.08E-07	3.06E-09	0.00E+00	1.11E-07	4.08E-08	9.88E-10	0.00E+00	4.18E-08
846	458011.5	3767557	3.54E-07	1.68E-08	0.00E+00	3.71E-07	3.54E-07	1.68E-08	0.00E+00	3.71E-07	1.06E-07	3.02E-09	0.00E+00	1.09E-07	4.02E-08	9.74E-10	0.00E+00	4.12E-08
847	458020.6	3767561	3.49E-07	1.65E-08	0.00E+00	3.66E-07	3.49E-07	1.65E-08	0.00E+00	3.66E-07	1.05E-07	2.97E-09	0.00E+00	1.08E-07	3.96E-08	9.60E-10	0.00E+00	4.06E-08
848	458029.8	3767565	3.45E-07	1.63E-08	0.00E+00	3.61E-07	3.45E-07	1.63E-08	0.00E+00	3.61E-07	1.03E-07	2.93E-09	0.00E+00	1.06E-07	3.91E-08	9.47E-10	0.00E+00	4.00E-08
849	458039	3767569	3.4E-07	1.61E-08	0.00E+00	3.56E-07	3.40E-07	1.61E-08	0.00E+00	3.56E-07	1.02E-07	2.89E-09	0.00E+00	1.05E-07	3.86E-08	9.34E-10	0.00E+00	3.95E-08
850	458048.2	3767572	3.35E-07	1.59E-08	0.00E+00	3.51E-07	3.35E-07	1.59E-08	0.00E+00	3.51E-07	1.00E-07	2.86E-09	0.00E+00	1.03E-07	3.81E-08	9.22E-10	0.00E+00	3.90E-08
851	458057.4	3767576	3.31E-07	1.57E-08	0.00E+00	3.47E-07	3.31E-07	1.57E-08	0.00E+00	3.47E-07	9.92E-08	2.82E-09	0.00E+00	1.02E-07	3.76E-08	9.10E-10	0.00E+00	3.85E-08
852	457846.3	3767450	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
853	457855.5	3767454	4.38E-07	2.07E-08	0.00E+00	4.59E-07	4.38E-07	2.07E-08	0.00E+00	4.59E-07	1.31E-07	3.73E-09	0.00E+00	1.35E-07	4.97E-08	1.20E-09	0.00E+00	5.09E-08
854	457864.7	3767457	4.31E-07	2.04E-08	0.00E+00	4.51E-07	4.31E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.89E-08	1.18E-09	0.00E+00	5.01E-08
855	457873.9	3767461	4.24E-07	2.01E-08	0.00E+00	4.44E-07	4.24E-07	2.01E-08	0.00E+00	4.44E-07	1.27E-07	3.61E-09	0.00E+00	1.31E-07	4.81E-08	1.17E-09	0.00E+00	4.93E-08
856	457883.1	3767465	4.17E-07	1.98E-08	0.00E+00	4.37E-07	4.17E-07	1.98E-08	0.00E+00	4.37E-07	1.25E-07	3.55E-09	0.00E+00	1.28E-07	4.73E-08	1.15E-09	0.00E+00	4.85E-08
857	457892.3	3767469	4.1E-07	1.94E-08	0.00E+00	4.30E-07	4.10E-07	1.94E-08	0.00E+00	4.30E-07	1.23E-07	3.49E-09	0.00E+00	1.26E-07	4.66E-08	1.13E-09	0.00E+00	4.77E-08
858	457901.5	3767472	4.04E-07	1.91E-08	0.00E+00	4.23E-07	4.04E-07	1.91E-08	0.00E+00	4.23E-07	1.21E-07	3.44E-09	0.00E+00	1.24E-07	4.58E-08	1.11E-09	0.00E+00	4.69E-08
859	457910.7	3767476	3.97E-07	1.88E-08	0.00E+00	4.16E-07	3.97E-07	1.88E-08	0.00E+00	4.16E-07	1.19E-07	3.38E-09	0.00E+00	1.22E-07	4.51E-08	1.09E-09	0.00E+00	4.62E-08
860	457919.9	3767480	3.91E-07	1.85E-08	0.00E+00	4.10E-07	3.91E-07	1.85E-08	0.00E+00	4.10E-07	1.17E-07	3.33E-09	0.00E+00	1.20E-07	4.44E-08	1.07E-09	0.00E+00	4.55E-08
861	457929.1	3767484	3.85E-07	1.82E-08	0.00E+00	4.03E-07	3.85E-07	1.82E-08	0.00E+00	4.03E-07	1.15E-07	3.28E-09	0.00E+00	1.19E-07	4.37E-08	1.06E-09	0.00E+00	4.47E-08
862	457938.3	3767487	3.79E-07	1.79E-08	0.00E+00	3.97E-07	3.79E-07	1.79E-08	0.00E+00	3.97E-07	1.14E-07	3.23E-09	0.00E+00	1.17E-07	4.30E-08	1.04E-09	0.00E+00	4.40E-08
863	457947.5	3767491	3.73E-07	1.77E-08	0.00E+00	3.91E-07	3.73E-07	1.77E-08	0.00E+00	3.91E-07	1.12E-07	3.18E-09	0.00E+00	1.15E-07	4.23E-08	1.03E-09	0.00E+00	4.34E-08
864	457956.7	3767495	3.68E-07	1.74E-08	0.00E+00	3.85E-07	3.68E-07	1.74E-08	0.00E+00	3.85E-07	1.10E-07	3.13E-09	0.00E+00	1.13E-07	4.17E-08	1.01E-09	0.00E+00	4.27E-08
865	457965.8	3767499	3.62E-07	1.71E-08	0.00E+00	3.79E-07	3.62E-07	1.71E-08	0.00E+00	3.79E-07	1.08E-07	3.08E-09	0.00E+00	1.11E-07	4.11E-08	9.95E-10	0.00E+00	4.21E-08
866	457975	3767503	3.56E-07	1.69E-08	0.00E+00	3.73E-07	3.56E-07	1.69E-08	0.00E+00	3.73E-07	1.07E-07	3.03E-09	0.00E+00	1.10E-07	4.04E-08	9.80E-10	0.00E+00	4.14E-08
867	457984.2	3767506	3.51E-07	1.66E-08	0.00E+00	3.68E-07	3.51E-07	1.66E-08	0.00E+00	3.68E-07	1.05E-07	2.99E-09	0.00E+00	1.08E-07	3.98E-08	9.65E-10	0.00E+00	4.08E-08
868	457993.4	3767510	3.46E-07	1.64E-08	0.00E+00	3.62E-07	3.46E-07	1.64E-08	0.00E+00	3.62E-07	1.04E-07	2.95E-09	0.00E+00	1.07E-07	3.93E-08	9.51E-10	0.00E+00	4.02E-08
869	458002.6	3767514	3.41E-07	1.61E-08	0.00E+00	3.57E-07	3.41E-07	1.61E-08	0.00E+00	3.57E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.87E-08	9.37E-10	0.00E+00	3.96E-08
870	458011.8	3767518	3.36E-07	1.59E-08	0.00E+00	3.52E-07	3.36E-07	1.59E-08	0.00E+00	3.52E-07	1.01E-07	2.86E-09	0.00E+00	1.04E-07	3.81E-08	9.24E-10	0.00E+00	3.91E-08
871	458021	3767521	3.31E-07	1.57E-08	0.00E+00	3.47E-07	3.31E-07	1.57E-08	0.00E+00	3.47E-07	9.93E-08	2.82E-09	0.00E+00	1.02E-07	3.76E-08	9.11E-10	0.00E+00	3.85E-08
872	458030.2	3767525	3.27E-07	1.55E-08	0.00E+00	3.42E-07	3.27E-07	1.55E-08	0.00E+00	3.42E-07	9.79E-08	2.78E-09	0.00E+00	1.01E-07	3.71E-08	8.98E-10	0.00E+00	3.80E-08
873	458039.4	3767529	3.22E-07	1.53E-08	0.00E+00	3.38E-07	3.22E-07	1.53E-08	0.00E+00	3.38E-07	9.66E-08	2.74E-09	0.00E+00	9.93E-08	3.66E-08	8.86E-10	0.00E+00	3.75E-08
874	458048.6	3767533	3.18E-07	1.51E-08	0.00E+00	3.33E-07	3.18E-07	1.51E-08	0.00E+00	3.33E-07	9.53E-08	2.71E-09	0.00E+00	9.80E-08	3.61E-08	8.74E-10	0.00E+00	3.70E-08
875	458057.8	3767536	3.14E-07	1.49E-08	0.00E+00	3.29E-07	3.14E-07	1.49E-08	0.00E+00	3.29E-07	9.40E-08	2.67E-09	0.00E+00	9.67E-08	3.56E-08	8.63E-10	0.00E+00	3.65E-08
876	458067	3767540	3.1E-07	1.47E-08	0.00E+00	3.25E-07	3.10E-07	1.47E-08	0.00E+00	3.25E-07	9.28E-08	2.64E-09	0.00E+00	9.55E-08	3.52E-08	8.52E-10	0.00E+00	3.60E-08
877	458076.2	3767544	3.06E-07	1.45E-08	0.00E+00	3.20E-07	3.06E-07	1.45E-08	0.00E+00	3.20E-07	9.17E-08	2.61E-09	0.00E+00	9.43E-08	3.47E-08	8.41E-10	0.00E+00	3.56E-08

878	458085.4	3767548	3.02E-07	1.43E-08	0.00E+00	3.17E-07	3.02E-07	1.43E-08	0.00E+00	3.17E-07	9.05E-08	2.57E-09	0.00E+00	9.31E-08	3.43E-08	8.31E-10	0.00E+00	3.51E-08
879	458094.6	3767551	2.99E-07	1.41E-08	0.00E+00	3.13E-07	2.99E-07	1.41E-08	0.00E+00	3.13E-07	8.94E-08	2.54E-09	0.00E+00	9.20E-08	3.39E-08	8.21E-10	0.00E+00	3.47E-08
880	458122.2	3767563	2.88E-07	1.37E-08	0.00E+00	3.02E-07	2.88E-07	1.37E-08	0.00E+00	3.02E-07	8.64E-08	2.46E-09	0.00E+00	8.88E-08	3.27E-08	7.93E-10	0.00E+00	3.35E-08
881	458131.4	3767567	2.85E-07	1.35E-08	0.00E+00	2.99E-07	2.85E-07	1.35E-08	0.00E+00	2.99E-07	8.54E-08	2.43E-09	0.00E+00	8.79E-08	3.24E-08	7.84E-10	0.00E+00	3.32E-08
882	458140.5	3767570	2.82E-07	1.34E-08	0.00E+00	2.96E-07	2.82E-07	1.34E-08	0.00E+00	2.96E-07	8.45E-08	2.40E-09	0.00E+00	8.70E-08	3.20E-08	7.76E-10	0.00E+00	3.28E-08
883	457947.7	3767451	3.54E-07	1.68E-08	0.00E+00	3.71E-07	3.54E-07	1.68E-08	0.00E+00	3.71E-07	1.06E-07	3.01E-09	0.00E+00	1.09E-07	4.02E-08	9.73E-10	0.00E+00	4.12E-08
884	457956.9	3767455	3.49E-07	1.65E-08	0.00E+00	3.65E-07	3.49E-07	1.65E-08	0.00E+00	3.65E-07	1.04E-07	2.97E-09	0.00E+00	1.07E-07	3.96E-08	9.59E-10	0.00E+00	4.05E-08
885	457966.1	3767459	3.44E-07	1.63E-08	0.00E+00	3.60E-07	3.44E-07	1.63E-08	0.00E+00	3.60E-07	1.03E-07	2.93E-09	0.00E+00	1.06E-07	3.90E-08	9.45E-10	0.00E+00	3.99E-08
886	457975.3	3767463	3.39E-07	1.6E-08	0.00E+00	3.55E-07	3.39E-07	1.60E-08	0.00E+00	3.55E-07	1.01E-07	2.88E-09	0.00E+00	1.04E-07	3.84E-08	9.31E-10	0.00E+00	3.94E-08
887	457984.5	3767466	3.34E-07	1.58E-08	0.00E+00	3.50E-07	3.34E-07	1.58E-08	0.00E+00	3.50E-07	1.00E-07	2.84E-09	0.00E+00	1.03E-07	3.79E-08	9.17E-10	0.00E+00	3.88E-08
888	457993.7	3767470	3.29E-07	1.56E-08	0.00E+00	3.45E-07	3.29E-07	1.56E-08	0.00E+00	3.45E-07	9.85E-08	2.80E-09	0.00E+00	1.01E-07	3.73E-08	9.04E-10	0.00E+00	3.82E-08
889	458002.9	3767474	3.24E-07	1.54E-08	0.00E+00	3.40E-07	3.24E-07	1.54E-08	0.00E+00	3.40E-07	9.71E-08	2.76E-09	0.00E+00	9.99E-08	3.68E-08	8.91E-10	0.00E+00	3.77E-08
890	458012.1	3767478	3.2E-07	1.51E-08	0.00E+00	3.35E-07	3.20E-07	1.51E-08	0.00E+00	3.35E-07	9.58E-08	2.72E-09	0.00E+00	9.85E-08	3.63E-08	8.79E-10	0.00E+00	3.72E-08
891	458021.3	3767482	3.15E-07	1.49E-08	0.00E+00	3.30E-07	3.15E-07	1.49E-08	0.00E+00	3.30E-07	9.44E-08	2.68E-09	0.00E+00	9.71E-08	3.58E-08	8.67E-10	0.00E+00	3.66E-08
892	458030.5	3767485	3.11E-07	1.47E-08	0.00E+00	3.26E-07	3.11E-07	1.47E-08	0.00E+00	3.26E-07	9.31E-08	2.65E-09	0.00E+00	9.58E-08	3.53E-08	8.55E-10	0.00E+00	3.61E-08
893	458039.8	3767489	3.07E-07	1.45E-08	0.00E+00	3.21E-07	3.07E-07	1.45E-08	0.00E+00	3.21E-07	9.19E-08	2.61E-09	0.00E+00	9.45E-08	3.48E-08	8.43E-10	0.00E+00	3.56E-08
894	458049	3767493	3.03E-07	1.43E-08	0.00E+00	3.17E-07	3.03E-07	1.43E-08	0.00E+00	3.17E-07	9.07E-08	2.58E-09	0.00E+00	9.32E-08	3.43E-08	8.32E-10	0.00E+00	3.52E-08
895	458058.2	3767497	2.99E-07	1.41E-08	0.00E+00	3.13E-07	2.99E-07	1.41E-08	0.00E+00	3.13E-07	8.95E-08	2.54E-09	0.00E+00	9.20E-08	3.39E-08	8.21E-10	0.00E+00	3.47E-08
896	458067.4	3767500	2.95E-07	1.4E-08	0.00E+00	3.09E-07	2.95E-07	1.40E-08	0.00E+00	3.09E-07	8.83E-08	2.51E-09	0.00E+00	9.08E-08	3.34E-08	8.10E-10	0.00E+00	3.43E-08
897	458076.6	3767504	2.91E-07	1.38E-08	0.00E+00	3.05E-07	2.91E-07	1.38E-08	0.00E+00	3.05E-07	8.72E-08	2.48E-09	0.00E+00	8.97E-08	3.30E-08	8.00E-10	0.00E+00	3.38E-08
898	458085.8	3767508	2.87E-07	1.36E-08	0.00E+00	3.01E-07	2.87E-07	1.36E-08	0.00E+00	3.01E-07	8.61E-08	2.45E-09	0.00E+00	8.85E-08	3.26E-08	7.90E-10	0.00E+00	3.34E-08
899	458095	3767512	2.84E-07	1.34E-08	0.00E+00	2.97E-07	2.84E-07	1.34E-08	0.00E+00	2.97E-07	8.51E-08	2.42E-09	0.00E+00	8.75E-08	3.22E-08	7.80E-10	0.00E+00	3.30E-08
900	458122.6	3767523	2.74E-07	1.3E-08	0.00E+00	2.87E-07	2.74E-07	1.30E-08	0.00E+00	2.87E-07	8.21E-08	2.33E-09	0.00E+00	8.44E-08	3.11E-08	7.53E-10	0.00E+00	3.19E-08
901	458131.8	3767527	2.71E-07	1.28E-08	0.00E+00	2.84E-07	2.71E-07	1.28E-08	0.00E+00	2.84E-07	8.12E-08	2.31E-09	0.00E+00	8.35E-08	3.07E-08	7.45E-10	0.00E+00	3.15E-08
902	458141	3767531	2.68E-07	1.27E-08	0.00E+00	2.81E-07	2.68E-07	1.27E-08	0.00E+00	2.81E-07	8.03E-08	2.28E-09	0.00E+00	8.26E-08	3.04E-08	7.37E-10	0.00E+00	3.11E-08
903	458150.2	3767534	2.65E-07	1.26E-08	0.00E+00	2.78E-07	2.65E-07	1.26E-08	0.00E+00	2.78E-07	7.94E-08	2.26E-09	0.00E+00	8.17E-08	3.01E-08	7.29E-10	0.00E+00	3.08E-08
904	458159.4	3767538	2.62E-07	1.24E-08	0.00E+00	2.75E-07	2.62E-07	1.24E-08	0.00E+00	2.75E-07	7.86E-08	2.23E-09	0.00E+00	8.08E-08	2.98E-08	7.21E-10	0.00E+00	3.05E-08
905	458168.6	3767542	2.6E-07	1.23E-08	0.00E+00	2.72E-07	2.60E-07	1.23E-08	0.00E+00	2.72E-07	7.78E-08	2.21E-09	0.00E+00	8.00E-08	2.95E-08	7.14E-10	0.00E+00	3.02E-08
906	458181.7	3767555	2.59E-07	1.22E-08	0.00E+00	2.71E-07	2.59E-07	1.22E-08	0.00E+00	2.71E-07	7.75E-08	2.20E-09	0.00E+00	7.97E-08	2.93E-08	7.11E-10	0.00E+00	3.01E-08
907	458185.6	3767564	2.6E-07	1.23E-08	0.00E+00	2.72E-07	2.60E-07	1.23E-08	0.00E+00	2.72E-07	7.79E-08	2.21E-09	0.00E+00	8.01E-08	2.95E-08	7.15E-10	0.00E+00	3.02E-08
908	458189.5	3767573	2.62E-07	1.24E-08	0.00E+00	2.74E-07	2.62E-07	1.24E-08	0.00E+00	2.74E-07	7.84E-08	2.23E-09	0.00E+00	8.06E-08	2.97E-08	7.19E-10	0.00E+00	3.04E-08
909	457708.1	3767313	4.91E-07	2.33E-08	0.00E+00	5.15E-07	4.91E-07	2.33E-08	0.00E+00	5.15E-07	1.47E-07	4.18E-09	0.00E+00	1.51E-07	5.57E-08	1.35E-09	0.00E+00	5.71E-08
910	457717.2	3767317	4.85E-07	2.3E-08	0.00E+00	5.08E-07	4.85E-07	2.30E-08	0.00E+00	5.08E-07	1.45E-07	4.13E-09	0.00E+00	1.49E-07	5.50E-08	1.33E-09	0.00E+00	5.64E-08
911	457726.2	3767321	4.79E-07	2.27E-08	0.00E+00	5.01E-07	4.79E-07	2.27E-08	0.00E+00	5.01E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.43E-08	1.32E-09	0.00E+00	5.56E-08
912	457735.3	3767324	4.72E-07	2.24E-08	0.00E+00	4.94E-07	4.72E-07	2.24E-08	0.00E+00	4.94E-07	1.41E-07	4.02E-09	0.00E+00	1.45E-07	5.36E-08	1.30E-09	0.00E+00	5.49E-08
913	457744.3	3767328	4.66E-07	2.2E-08	0.00E+00	4.88E-07	4.66E-07	2.20E-08	0.00E+00	4.88E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
914	457753.4	3767332	4.59E-07	2.17E-08	0.00E+00	4.81E-07	4.59E-07	2.17E-08	0.00E+00	4.81E-07	1.38E-07	3.91E-09	0.00E+00	1.41E-07	5.21E-08	1.26E-09	0.00E+00	5.34E-08
915	457762.4	3767336	4.53E-07	2.14E-08	0.00E+00	4.74E-07	4.53E-07	2.14E-08	0.00E+00	4.74E-07	1.36E-07	3.86E-09	0.00E+00	1.40E-07	5.14E-08	1.24E-09	0.00E+00	5.26E-08
916	457771.5	3767339	4.47E-07	2.11E-08	0.00E+00	4.68E-07	4.47E-07	2.11E-08	0.00E+00	4.68E-07	1.34E-07	3.80E-09	0.00E+00	1.38E-07	5.07E-08	1.23E-09	0.00E+00	5.19E-08
917	458052.1	3767454	2.88E-07	1.36E-08	0.00E+00	3.01E-07	2.88E-07	1.36E-08	0.00E+00	3.01E-07	8.62E-08	2.45E-09	0.00E+00	8.86E-08	3.26E-08	7.91E-10	0.00E+00	3.34E-08
918	458061.1	3767458	2.84E-07	1.34E-08	0.00E+00	2.97E-07	2.84E-07	1.34E-08	0.00E+00	2.97E-07	8.51E-08	2.42E-09	0.00E+00	8.75E-08	3.22E-08	7.80E-10	0.00E+00	3.30E-08
919	458070.2	3767462	2.8E-07	1.33E-08	0.00E+00	2.94E-07	2.80E-07	1.33E-08	0.00E+00	2.94E-07	8.40E-08	2.39E-09	0.00E+00	8.64E-08	3.18E-08	7.71E-10	0.00E+00	3.26E-08
920	458079.2	3767465	2.77E-07	1.31E-08	0.00E+00	2.90E-07	2.77E-07	1.31E-08	0.00E+00	2.90E-07	8.29E-08	2.36E-09	0.00E+00	8.53E-08	3.14E-08	7.61E-10	0.00E+00	3.22E-08
921	458088.3	3767469	2.74E-07	1.3E-08	0.00E+00	2.86E-07	2.74E-07	1.30E-08	0.00E+00	2.86E-07	8.19E-08	2.33E-09	0.00E+00	8.42E-08	3.10E-08	7.52E-10	0.00E+00	3.18E-08
922	458097.3	3767473	2.7E-07	1.28E-08	0.00E+00	2.83E-07	2.70E-07	1.28E-08	0.00E+00	2.83E-07	8.09E-08	2.30E-09	0.00E+00	8.32E-08	3.07E-08	7.43E-10	0.00E+00	3.14E-08
923	458124.5	3767484	2.61E-07	1.24E-08	0.00E+00	2.73E-07	2.61E-07	1.24E-08	0.00E+00	2.73E-07	7.82E-08	2.22E-09	0.00E+00	8.04E-08	2.96E-08	7.17E-10	0.00E+00	3.03E-08
924	458133.5	3767487	2.58E-07	1.22E-08	0.00E+00	2.70E-07	2.58E-07	1.22E-08	0.00E+00	2.70E-07	7.73E-08	2.20E-09	0.00E+00	7.95E-08	2.93E-08	7.09E-10	0.00E+00	3.00E-08
925	458142.6	3767491	2.55E-07	1.21E-08	0.00E+00	2.67E-07	2.55E-07	1.21E-08	0.00E+00	2.67E-07	7.64E-08	2.17E-09	0.00E+00	7.86E-08	2.90E-08	7.01E-10	0.00E+00	2.97E-08
926	458151.6	3767495	2.52E-07	1.2E-08	0.00E+00	2.64E-07	2.52E-07	1.20E-08	0.00E+00	2.64E-07	7.56E-08	2.15E-09	0.00E+00	7.78E-08	2.86E-08	6.94E-10	0.00E+00	2.93E-08
927	458160.7	3767499	2.5E-07	1.18E-08	0.00E+00	2.62E-07	2.50E-07	1.18E-08	0.00E+00	2.62E-07	7.48E-08	2.13E-09	0.00E+00	7.69E-08	2.83E-08	6.86E-10	0.00E+00	2.90E-08
928	458169.7	3767502	2.47E-07	1.17E-08	0.00E+00	2.59E-07	2.47E-07	1.17E-08	0.00E+00	2.59E-07	7.40E-08	2.10E-09	0.00E+00	7.61E-08	2.80E-08	6.79E-10	0.00E+00	2.87E-08
929	458178.8	3767506	2.45E-07	1.16E-08	0.00E+00	2.56E-07	2.45E-07	1.16E-08	0.00E+00	2.56E-07	7.33E-08	2.08E-09	0.00E+00	7.54E-08	2.78E-08	6.72E-10	0.00E+00	2.84E-08
930	458187.8	3767510	2.42E-07	1.15E-08	0.00E+00	2.54E-07	2.42E-07	1.15E-08	0.00E+00	2.54E-07	7.26E-08	2.06E-09	0.00E+00	7.46E-08	2.75E-08	6.66E-10	0.00E+00	2.82E-08
931	458196.9	3767513	2.4E-07	1.14E-08	0.00E+00	2.51E-07	2.40E-07	1.14E-08	0.00E+00	2.51E-07	7.19E-08	2.04E-09	0.00E+00	7.39E-08	2.72E-08	6.59E-10	0.00E+00	2.79E-08
932	458209.8	3767526	2.39E-07	1.13E-08	0.00E+00	2.50E-07	2.39E-07	1.13E-08	0.00E+00	2.50E-07	7.16E-08	2.03E-09	0.00E+00	7.36E-08	2.71E-08	6.56E-10	0.00E+00	2.78E-08
933	458213.6	3767535	2.4E-07	1.14E-08	0.00E+00	2.52E-07	2.40E-07	1.14E-08	0.00E+00	2.52E-07	7.19E-08	2.04E-09	0.00E+00	7.40E-08	2.72E-08	6.60E-10	0.00E+00	2.79E-08
934	458217.4	3767544	2.42E-07	1.14E-08	0.00E+00	2.53E-07	2.42E-07	1.14E-08	0.00E+00	2.53E-07	7.23E-08	2.06E-09	0.00E+00	7.44E-08	2.74E-08	6.64E-10	0.00E+00	2.81E-08
935	458221.2	3767553	2.43E-07	1.15E-08	0.00E+00	2.54E-07	2.43E-07	1.15E-08	0.00E+00	2.54E-07	7.28E-08	2.07E-09	0.00E+00	7.48E-08	2.76E-08	6.68E-10	0.00E+00	2.82E-08
936	458225.1	3767562	2.45E-07	1.16E-08	0.00E+00	2.56E-07	2.45E-07	1.16E-08	0.00E+00	2.56E-07	7.32E-08	2.08E-09	0.00E+00	7.53E-08	2.77E-08	6.72E-10	0.00E+00	2.84E-08
937	458228.9	3767571	2.46E-07	1.17E-08	0.00E+00	2.58E-07	2.46E-07	1.17E-08	0.00E+00	2.58E-07	7.37E-08	2.10E-09	0.00E+00	7.58E-08	2.79E-08	6.76E-10	0.00E+00	2.86E-08
938	457699.1	3767310	4.98E-07	2.36E-08	0.00E+00	5.21E-07	4.98E-07	2.36E-08	0.00E+00	5.21E-07	1.49E-07	4.24E-09	0.00E+00	1.53E-07	5.65E-08	1.37E-09	0.00E+00	5.78E-08
939	457689.1	3767310	5.08E-07	2.41E-08	0.00E+00	5.32E-07	5.08E-07	2.41E-08	0.00E+00	5.32E-07	1.52E-07	4.33E-09	0.00E+00	1.57E-07	5.77E-08	1.40E-09	0.00E+00	5.91E-08
940	457679.2	3767310	5.19E-07	2.46E-08	0.00E+00	5.44E-07	5.19E-07	2.46E-08	0.00E+00	5.44E-07	1.55E-07	4.42E-09	0.00E+00	1.60E-07	5.89E-08	1.43E-09	0.00E+00	6.03E-08
941	457669.2	3767310	5.3E-07	2.51E-08	0.00E+00	5.55E-07	5.30E-07	2.51E-08	0.00E+00	5.55E-07	1.59E-07	4.51E-09	0.00E+00	1.63E-07	6.01E-08	1.46E-09	0.00E+00	6.16E-08
942	457659.3	3767310	5.41E-07	2.56E-08	0.00E+00	5.67E-07	5.41E-07	2.56E-08	0.00E+00	5.67E-07	1.62E-07	4.61E-09	0.00E+00	1.67E-07	6.14E-08	1.49E-09	0.00E+00	6.29E-08
943	457649.3	3767310	5.52E-07	2.61E-08	0.00E+00	5.78E-07	5.52E-07	2.61E-08	0.00E+00	5.78E-07	1.65E-07	4.70E-09	0.00E+00	1.70E-07	6.27E-08	1.52E-09	0.00E+00	6.42E-08
944	457639.4	3767310	5.64E-07	2.67E-08	0.00E+00	5.90E-07	5.64E-07	2.67E-08	0.00E+00	5.90E-07	1.69E-07	4.80E-09	0.00E+00	1.74E-07	6.39E-08	1.55E-09	0.00E+00	6.55E-08
945	457629.4	3767310	5.75E-07	2.72E-08	0.00E+00	6.02E-07	5.75E-07	2.72E-08	0.00E+00	6.02E-07	1.72E-07	4.89E-09	0.00E+00	1.77E-07	6.52E-08	1.58E-09	0.00E+00	6.68E-08
946	457619.5	3767310	5.87E-07	2.78E-08	0.00E+00	6.14E-07	5.87E-07	2.78E-08	0.00E+00	6.14E-07	1.76E-07	4.99E-09	0.00E+00	1.81E-07	6.65E-08	1.61E-09	0.00E+00	6.82E-08
947	457609.5	3767310	5.98E-07	2.83E-08	0.00E+00	6.27E-07	5.98E-07	2.83E-08	0.00E+00	6.27E-07	1.79E-07	5.09E-09	0.00E+00	1.84E-07	6.79E-08	1.64E-09	0.00E+00	6.95E-08
948	457599.6	3767310	6.1E-07	2.89E-08	0.00E+00	6.39E-07	6.10E-07	2.89E-08	0.00E+00	6.39E-07	1.83E-07	5.19E-09	0.00E+00	1.88E-07	6.92E-08	1.68E-09	0.00E+00	7.09E-08
949	457589.6	3767310	6.22E-07	2.94E-08	0.00E+00	6.51E-07	6.22E-07	2.94E-08	0.00E+00	6.51E-07	1.86E-07	5.29E-09	0.00E+00	1.92E-07	7.06E-08	1.71E-09	0.00E+00	7.23E-08
950	457579.7	3767310	6.34E-07	3E-08	0.00E+00	6.64E-07	6.34E-07	3.00E-08	0.00E+00	6.64E-07	1.90E-07	5.40E-09	0.00E+00	1.95E-07	7.19E-08	1.74E-09	0.00E+00	7.37E-08
951	457569.7	3767310	6.46E-07	3.06E-08	0.00E+00	6.76E-07	6.46E-07	3.06E-08	0.00E+00	6.76E-07	1.93E-07	5.50E-09	0.00E+00	1.99E-07	7.33E-08	1.77E-09	0.00E+00	7.50E-08
952	457559.8	3767310	6.58E-07	3.11E-08	0.00E+00	6.89E-07	6.58E-07	3.11E-08	0.00E+00	6.89E-07	1.97E-07	5.60E-09	0.00E+00	2.03E-07	7.46E-08	1.81E-09	0.00E+00	7.64E-08
953	457549.8	3767310	6.7E-07	3.17E-08	0.00E+00	7.02E-07	6.70E-07	3.17E-08	0.00E+00	7.02E-07	2.01E-07	5.70E-09	0.00E+00	2.06E-07	7.60E-08	1.84E-09	0.00E+00	7.78E-08
954	457539.9	3767310	6.82E-07	3.23E-08	0.00E+00	7.14E-07	6.82E-07	3.23E-08	0.00E+00	7.14E-07	2.04E-07	5.80E-09	0.00E+00	2.10E-07	7.74E-08	1.87E-09	0.00E+00	7.92E-08
955	457529.9	3767310	6.94E-07	3.28E-08	0.00E+00	7.27E-07	6.94E-07	3.28E-08	0.00E+00	7.27E-07	2.08E-07	5.91E-09	0.00E+00	2.14E-07	7.87E-08	1.91E-09	0.00E+00	8.06E-08
956	457520	3767310	7.06E-07	3.34E-08	0.00E+00	7.39E-07	7.06E-07	3.34E-08	0.00E+00	7.39E-07	2.11E-07	6.01E-09	0.00E+00	2.17E-07	8.01E-08	1.94E-09	0.00E+00	8.20E-08
957	457510	3767310	7.17E-07	3.4E-08	0.00E+00	7.51E-07	7.17E-07	3.40E-08	0.00E+00	7.51E-07	2.15E-07	6.11E-09	0.00E+00	2.21E-07	8.14E-08	1.97E-09	0.00E+00	8.34E-08
958	457500.1	3767310	7.29E-07	3.45E-08	0.00E+00	7.64E-07	7.29E-07	3.45E-08	0.00E+00	7.64E-07	2.18E-07	6.21E-09	0.00E+00	2.25E-07	8.27E-08	2.00E-09	0.00E+00	8.47E-08
959	457490.1	3767310	7.4E-07	3.51E-08	0.00E+00	7.75E-07	7.40E-07	3.51E-08	0.00E+00	7.75E-07	2.22E-07	6.30E-09	0.00E+00	2.28E-07	8.40E-08	2.03E-09	0.00E+00	8.60E-08
960	457480.2	3767310	7.52E-07	3.56E-08	0.00E+00	7.87E-07	7.52E-07	3.56E-08	0.00E+00	7.87E-07	2.25E-07	6.40E-09	0.00E+00	2.32E-07	8.53E-08	2.07E-09	0.00E+00	8.73E-08
961	457470.2	3767310	7.63E-07	3.61E-08	0.00E+00	7.99E-07	7.63E-07	3.61E-08	0.00E+00	7.99E-07	2.29E-07	6.49E-09	0.00E+00	2.35E-07	8.66E-08	2.10E-09	0.00E+00	8.87E-08
962	457460.3	3767310	7.74E-07	3.66E-08	0.00E+00	8.11E-07	7.74E-07	3.66E-08	0.00E+00	8.11E-07	2.32E-07	6.59E-09	0.00E+00	2.38E-07	8.78E-08	2.13E-09	0.00E+00	8.99E-08
963	457450.3	3767310	7.85E-07	3.72E-08	0.00E+00	8.22E-07	7.85E-07	3.72E-08	0.00E+00	8.22E-07	2.35E-07	6.68E-09	0.00E+00	2.42E-07	8.90E-08	2.16E-09	0.00E+00	9.12E-08
964	457440.4	3767310	7.95E-07	3.77E-08	0.00E+00	8.33E-07	7.95E-07	3.77E-08	0.00E+00	8.33E-07	2.38E-07	6.77E-09	0.00E+00	2.45E-07	9.02E-08	2.19E-09	0.00E+00	9.24E-08
965	457430.4	3767310	8.05E-07	3.81E-08	0.00E+00	8.44E-07	8.05E-07	3.81E-08	0.00E+00	8.44E-07	2.41E-07	6.86E-09	0.00E+00	2.48E-07	9.14E-08	2.21E-09	0.00E+00	9.36E-08
966	457420.5	3767310	8.15E-07	3.86E-08	0.00E+00	8.54E-07	8.15E-07	3.86E-08	0.00E+00	8.54E-07	2.44E-07	6.94E-09	0.00E+00	2.51E-07	9.25E-08	2.24E-09	0.00E+00	9.48E-08
967	457410.6	3767310	8.25E-07	3.91E-08	0.00E+00	8.64E-07	8.25E-07	3.91E-08	0.00E+00	8.64E-07	2.47E-07	7.03E-09	0.00E+00	2.54E-07	9.36E-08	2.27E-09	0.00E+00	9.59E-08
968	457400.6	3767310	8.35E-07	3.95E-08	0.00E+00	8.74E-07	8.35E-07	3.95E-08	0.00E+00	8.74E-07	2.50E-07	7.11E-09	0.00E+00	2.57E-07	9.47E-08	2.29E-09	0.00E+00	9.70E-08
969	457390.7	3767310	8.44E-07	3.99E-08	0.00E+00	8.84E-07	8.44E-07	3.99E-08	0.00E+00	8.84E-07	2.53E-07	7.18E-09	0.00E+00	2.60E-07	9.57E-08	2.32E-09	0.00E+00	9.80E-08
970	457380.7	3767310	8.52E-07	4.04E-08	0.00E+00	8.93E-07	8.52E-07	4.04E-08	0.00E+00	8.93E-07	2.55E-07	7.26E-09	0.00E+00	2.63E-07	9.67E-08	2.34E-09	0.00E+00	9.90E-08
971	457370.8	3767310	8.6E-07	4.07E-08	0.00E+00	9.01E-07	8.60E-07	4.07E-08	0.00E+00	9.01E-07	2.58E-07	7.33E-09	0.00E+00	2.65E-07	9.76E-08	2.36E-09	0.00E+00	1.00E-07
972	457360.8	3767310	8.68E-07	4.11E-08	0.00E+00	9.09E-07	8.68E-07	4.11E-08	0.00E+00	9.09E-07	2.60E-07	7.39E-09	0.00E+00	2.67E-07	9.85E-08	2.39E-09	0.00E+00	1.01E-07
973	457350.9	3767310	8.76E-07	4.15E-08	0.00E+00	9.17E-07	8.76E-07	4.15E-08	0.00E+00	9.17E-07	2.62E-07	7.45E-09	0.00E+00	2.70E-07	9.93E-08	2.41E-09	0.00E+00	1.02E-07
974	457340.9	3767310	8.82E-07	4.18E-08	0.00E+00	9.24E-07	8.82E-07	4.18E-08	0.00E+00	9.24E-07	2.64E-07	7.51E-09	0.00E+00	2.72E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
975	457331	3767310	8.89E-07	4.21E-08	0.00E+00	9.31E-07	8.89E-07	4.21E-08	0.00E+00	9.31E-07	2.66E-07	7.57E-09	0.00E+00	2.74E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
976	457708.1	3767273	4.6E-07	2.18E-08	0.00E+00	4.82E-07	4.60E-07	2.18E-08	0.00E+00	4.82E-07	1.38E-07	3.92E-09	0.00E+00	1.42E-07	5.22E-08	1.27E-09	0.00E+00	5.35E-08
977	457717.1	3767277	4.55E-07	2.15E-08	0.00E+00	4.76E-07	4.55E-07	2.15E-08	0.00E+00	4.76E-07	1.36E-07	3.87E-09	0.00E+00	1.40E-07	5.16E-08	1.25E-09	0.00E+00	5.28E-08
978	457726.2	3767281	4.49E-07	2.13E-08	0.00E+00	4.70E-07	4.49E-07	2.13E-08	0.00E+00	4.70E-07	1.34E-07	3.82E-09	0.00E+00	1.38E-07	5.09E-08	1.23E-09	0.00E+00	5.22E-08
979	457735.3	3767284	4.43E-07	2.1E-08	0.00E+00	4.64E-07	4.43E-07	2.10E-08	0.00E+00	4.64E-07	1.33E-07	3.77E-09	0.00E+00	1.37E-07	5.03E-08	1.22E-09	0.00E+00	5.15E-08
980	457744.3	3767288	4.38E-07	2.07E-08	0.00E+00	4.58E-07	4.38E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
981	457753.4	3767292	4.32E-07	2.04E-08	0.00E+00	4.52E-07	4.32E-07	2.04E-08	0.00E+00	4.52E-07	1.29E-07	3.68E-09	0.00E+00	1.33E-07	4.90E-08	1.19E-09	0.00E+00	5.02E-08
982	457762.5	3767296	4.26E-07	2.02E-08	0.00E+00	4.46E-07	4.26E-07	2.02E-08	0.00E+00	4.46E-07	1.28E-07	3.63E-09	0.00E+00	1.31E-07	4.83E-08	1.17E-09	0.00E+00	4.95E-08
983	457771.6	3767299	4.2E-07	1.99E-08	0.00E+00	4.40E-07	4.20E-07	1.99E-08	0.00E+00	4.40E-07	1.26E-07	3.58E-09	0.00E+00	1.29E-07	4.77E-08	1.16E-09	0.00E+00	4.88E-08
984	457780.6	3767303	4.15E-07	1.96E-08	0.00E+00	4.34E-07	4.15E-07	1.96E-08	0.00E+00	4.34E-07	1.24E-07	3.53E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.82E-08
985	457789.7	3767307	4.09E-07	1.94E-08	0.00E+00	4.28E-07	4.09E-07	1.94E-08	0.00E+00	4.28E-07	1.23E-07	3.48E-09	0.00E+00	1.26E-07	4.64E-08	1.12E-09	0.00E+00	4.75E-08
986	457798.8	3767310	4.04E-07	1.91E-08	0.00E+00	4.23E-07	4.04E-07	1.91E-08	0.00E+00	4.23E-07	1.21E-07	3.44E-09	0.00E+00	1.24E-07	4.58E-08	1.11E-09	0.00E+00	4.69E-08
987	457807.8	3767314	3.98E-07	1.88E-08	0.00E+00	4.17E-07	3.98E-07	1.88E-08	0.00E+00	4.17E-07	1.19E-07	3.39E-09	0.00E+00	1.23E-07	4.52E-08	1.09E-09	0.00E+00	4.62E-08

988	457816.9	3767318	3.93E-07	1.86E-08	0.00E+00	4.11E-07	3.93E-07	1.86E-08	0.00E+00	4.11E-07	1.18E-07	3.34E-09	0.00E+00	1.21E-07	4.45E-08	1.08E-09	0.00E+00	4.56E-08
989	457826	3767322	3.87E-07	1.83E-08	0.00E+00	4.05E-07	3.87E-07	1.83E-08	0.00E+00	4.05E-07	1.16E-07	3.30E-09	0.00E+00	1.19E-07	4.39E-08	1.06E-09	0.00E+00	4.50E-08
990	457835	3767325	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.14E-07	3.25E-09	0.00E+00	1.18E-07	4.33E-08	1.05E-09	0.00E+00	4.44E-08
991	457844.1	3767329	3.76E-07	1.78E-08	0.00E+00	3.94E-07	3.76E-07	1.78E-08	0.00E+00	3.94E-07	1.13E-07	3.21E-09	0.00E+00	1.16E-07	4.27E-08	1.03E-09	0.00E+00	4.37E-08
992	457853.2	3767333	3.71E-07	1.76E-08	0.00E+00	3.89E-07	3.71E-07	1.76E-08	0.00E+00	3.89E-07	1.11E-07	3.16E-09	0.00E+00	1.14E-07	4.21E-08	1.02E-09	0.00E+00	4.31E-08
993	457862.2	3767336	3.66E-07	1.73E-08	0.00E+00	3.84E-07	3.66E-07	1.73E-08	0.00E+00	3.84E-07	1.10E-07	3.12E-09	0.00E+00	1.13E-07	4.15E-08	1.01E-09	0.00E+00	4.26E-08
994	457871.3	3767340	3.61E-07	1.71E-08	0.00E+00	3.78E-07	3.61E-07	1.71E-08	0.00E+00	3.78E-07	1.08E-07	3.07E-09	0.00E+00	1.11E-07	4.10E-08	9.92E-10	0.00E+00	4.20E-08
995	458143.4	3767452	2.44E-07	1.15E-08	0.00E+00	2.55E-07	2.44E-07	1.15E-08	0.00E+00	2.55E-07	7.30E-08	2.08E-09	0.00E+00	7.51E-08	2.77E-08	6.70E-10	0.00E+00	2.83E-08
996	458152.4	3767455	2.41E-07	1.14E-08	0.00E+00	2.53E-07	2.41E-07	1.14E-08	0.00E+00	2.53E-07	7.22E-08	2.05E-09	0.00E+00	7.43E-08	2.74E-08	6.63E-10	0.00E+00	2.80E-08
997	458161.5	3767459	2.39E-07	1.13E-08	0.00E+00	2.50E-07	2.39E-07	1.13E-08	0.00E+00	2.50E-07	7.15E-08	2.03E-09	0.00E+00	7.35E-08	2.71E-08	6.56E-10	0.00E+00	2.77E-08
998	458170.6	3767463	2.36E-07	1.12E-08	0.00E+00	2.47E-07	2.36E-07	1.12E-08	0.00E+00	2.47E-07	7.07E-08	2.01E-09	0.00E+00	7.27E-08	2.68E-08	6.49E-10	0.00E+00	2.74E-08
999	458179.6	3767466	2.34E-07	1.11E-08	0.00E+00	2.45E-07	2.34E-07	1.11E-08	0.00E+00	2.45E-07	7.00E-08	1.99E-09	0.00E+00	7.20E-08	2.65E-08	6.42E-10	0.00E+00	2.72E-08
1000	458188.7	3767470	2.31E-07	1.1E-08	0.00E+00	2.42E-07	2.31E-07	1.10E-08	0.00E+00	2.42E-07	6.93E-08	1.97E-09	0.00E+00	7.13E-08	2.62E-08	6.36E-10	0.00E+00	2.69E-08
1001	458197.8	3767474	2.29E-07	1.08E-08	0.00E+00	2.40E-07	2.29E-07	1.08E-08	0.00E+00	2.40E-07	6.86E-08	1.95E-09	0.00E+00	7.05E-08	2.60E-08	6.29E-10	0.00E+00	2.66E-08
1002	458206.8	3767478	2.27E-07	1.07E-08	0.00E+00	2.38E-07	2.27E-07	1.07E-08	0.00E+00	2.38E-07	6.79E-08	1.93E-09	0.00E+00	6.99E-08	2.57E-08	6.23E-10	0.00E+00	2.64E-08
1003	458215.9	3767481	2.25E-07	1.06E-08	0.00E+00	2.35E-07	2.25E-07	1.06E-08	0.00E+00	2.35E-07	6.73E-08	1.91E-09	0.00E+00	6.92E-08	2.55E-08	6.17E-10	0.00E+00	2.61E-08
1004	458225	3767485	2.23E-07	1.05E-08	0.00E+00	2.33E-07	2.23E-07	1.05E-08	0.00E+00	2.33E-07	6.67E-08	1.89E-09	0.00E+00	6.86E-08	2.52E-08	6.12E-10	0.00E+00	2.59E-08
1005	458237.9	3767498	2.22E-07	1.05E-08	0.00E+00	2.32E-07	2.22E-07	1.05E-08	0.00E+00	2.32E-07	6.64E-08	1.89E-09	0.00E+00	6.82E-08	2.51E-08	6.09E-10	0.00E+00	2.57E-08
1006	458241.7	3767507	2.23E-07	1.05E-08	0.00E+00	2.33E-07	2.23E-07	1.05E-08	0.00E+00	2.33E-07	6.67E-08	1.90E-09	0.00E+00	6.86E-08	2.53E-08	6.12E-10	0.00E+00	2.59E-08
1007	458245.5	3767516	2.24E-07	1.06E-08	0.00E+00	2.34E-07	2.24E-07	1.06E-08	0.00E+00	2.34E-07	6.70E-08	1.91E-09	0.00E+00	6.89E-08	2.54E-08	6.15E-10	0.00E+00	2.60E-08
1008	458249.4	3767525	2.25E-07	1.07E-08	0.00E+00	2.36E-07	2.25E-07	1.07E-08	0.00E+00	2.36E-07	6.74E-08	1.92E-09	0.00E+00	6.93E-08	2.55E-08	6.19E-10	0.00E+00	2.62E-08
1009	458253.2	3767534	2.26E-07	1.07E-08	0.00E+00	2.37E-07	2.26E-07	1.07E-08	0.00E+00	2.37E-07	6.78E-08	1.93E-09	0.00E+00	6.97E-08	2.57E-08	6.22E-10	0.00E+00	2.63E-08
1010	458257	3767543	2.28E-07	1.08E-08	0.00E+00	2.39E-07	2.28E-07	1.08E-08	0.00E+00	2.39E-07	6.82E-08	1.94E-09	0.00E+00	7.02E-08	2.58E-08	6.26E-10	0.00E+00	2.65E-08
1011	458260.9	3767552	2.29E-07	1.09E-08	0.00E+00	2.40E-07	2.29E-07	1.09E-08	0.00E+00	2.40E-07	6.87E-08	1.95E-09	0.00E+00	7.06E-08	2.60E-08	6.30E-10	0.00E+00	2.66E-08
1012	458264.7	3767561	2.31E-07	1.09E-08	0.00E+00	2.42E-07	2.31E-07	1.09E-08	0.00E+00	2.42E-07	6.91E-08	1.96E-09	0.00E+00	7.11E-08	2.62E-08	6.34E-10	0.00E+00	2.68E-08
1013	458268.5	3767570	2.32E-07	1.1E-08	0.00E+00	2.43E-07	2.32E-07	1.10E-08	0.00E+00	2.43E-07	6.96E-08	1.98E-09	0.00E+00	7.16E-08	2.64E-08	6.39E-10	0.00E+00	2.70E-08
1014	457699	3767270	4.66E-07	2.21E-08	0.00E+00	4.88E-07	4.66E-07	2.21E-08	0.00E+00	4.88E-07	1.40E-07	3.97E-09	0.00E+00	1.44E-07	5.29E-08	1.28E-09	0.00E+00	5.42E-08
1015	457689.1	3767270	4.75E-07	2.25E-08	0.00E+00	4.98E-07	4.75E-07	2.25E-08	0.00E+00	4.98E-07	1.42E-07	4.05E-09	0.00E+00	1.46E-07	5.39E-08	1.31E-09	0.00E+00	5.52E-08
1016	457679.1	3767270	4.85E-07	2.3E-08	0.00E+00	5.08E-07	4.85E-07	2.30E-08	0.00E+00	5.08E-07	1.45E-07	4.13E-09	0.00E+00	1.49E-07	5.50E-08	1.33E-09	0.00E+00	5.64E-08
1017	457669.2	3767270	4.95E-07	2.34E-08	0.00E+00	5.18E-07	4.95E-07	2.34E-08	0.00E+00	5.18E-07	1.48E-07	4.21E-09	0.00E+00	1.52E-07	5.61E-08	1.36E-09	0.00E+00	5.75E-08
1018	457659.2	3767270	5.05E-07	2.39E-08	0.00E+00	5.29E-07	5.05E-07	2.39E-08	0.00E+00	5.29E-07	1.51E-07	4.30E-09	0.00E+00	1.55E-07	5.73E-08	1.39E-09	0.00E+00	5.86E-08
1019	457649.3	3767270	5.15E-07	2.44E-08	0.00E+00	5.39E-07	5.15E-07	2.44E-08	0.00E+00	5.39E-07	1.54E-07	4.38E-09	0.00E+00	1.59E-07	5.84E-08	1.41E-09	0.00E+00	5.98E-08
1020	457639.3	3767270	5.25E-07	2.48E-08	0.00E+00	5.50E-07	5.25E-07	2.48E-08	0.00E+00	5.50E-07	1.57E-07	4.47E-09	0.00E+00	1.62E-07	5.95E-08	1.44E-09	0.00E+00	6.10E-08
1021	457629.4	3767270	5.35E-07	2.53E-08	0.00E+00	5.60E-07	5.35E-07	2.53E-08	0.00E+00	5.60E-07	1.60E-07	4.55E-09	0.00E+00	1.65E-07	6.07E-08	1.47E-09	0.00E+00	6.22E-08
1022	457619.4	3767270	5.45E-07	2.58E-08	0.00E+00	5.71E-07	5.45E-07	2.58E-08	0.00E+00	5.71E-07	1.63E-07	4.64E-09	0.00E+00	1.68E-07	6.19E-08	1.50E-09	0.00E+00	6.34E-08
1023	457609.5	3767270	5.56E-07	2.63E-08	0.00E+00	5.82E-07	5.56E-07	2.63E-08	0.00E+00	5.82E-07	1.66E-07	4.73E-09	0.00E+00	1.71E-07	6.31E-08	1.53E-09	0.00E+00	6.46E-08
1024	457599.5	3767270	5.66E-07	2.68E-08	0.00E+00	5.93E-07	5.66E-07	2.68E-08	0.00E+00	5.93E-07	1.70E-07	4.82E-09	0.00E+00	1.74E-07	6.43E-08	1.56E-09	0.00E+00	6.58E-08
1025	457589.6	3767270	5.77E-07	2.73E-08	0.00E+00	6.04E-07	5.77E-07	2.73E-08	0.00E+00	6.04E-07	1.73E-07	4.91E-09	0.00E+00	1.78E-07	6.55E-08	1.59E-09	0.00E+00	6.70E-08
1026	457579.6	3767270	5.88E-07	2.78E-08	0.00E+00	6.15E-07	5.88E-07	2.78E-08	0.00E+00	6.15E-07	1.76E-07	5.00E-09	0.00E+00	1.81E-07	6.67E-08	1.61E-09	0.00E+00	6.83E-08
1027	457569.7	3767270	5.98E-07	2.83E-08	0.00E+00	6.27E-07	5.98E-07	2.83E-08	0.00E+00	6.27E-07	1.79E-07	5.09E-09	0.00E+00	1.84E-07	6.79E-08	1.64E-09	0.00E+00	6.95E-08
1028	457559.7	3767270	6.09E-07	2.88E-08	0.00E+00	6.38E-07	6.09E-07	2.88E-08	0.00E+00	6.38E-07	1.82E-07	5.18E-09	0.00E+00	1.88E-07	6.91E-08	1.67E-09	0.00E+00	7.08E-08
1029	457549.8	3767270	6.2E-07	2.93E-08	0.00E+00	6.49E-07	6.20E-07	2.93E-08	0.00E+00	6.49E-07	1.86E-07	5.28E-09	0.00E+00	1.91E-07	7.03E-08	1.70E-09	0.00E+00	7.20E-08
1030	457539.8	3767270	6.3E-07	2.98E-08	0.00E+00	6.60E-07	6.30E-07	2.98E-08	0.00E+00	6.60E-07	1.89E-07	5.37E-09	0.00E+00	1.94E-07	7.15E-08	1.73E-09	0.00E+00	7.32E-08
1031	457529.9	3767270	6.41E-07	3.03E-08	0.00E+00	6.71E-07	6.41E-07	3.03E-08	0.00E+00	6.71E-07	1.92E-07	5.46E-09	0.00E+00	1.97E-07	7.27E-08	1.76E-09	0.00E+00	7.45E-08
1032	457519.9	3767270	6.52E-07	3.09E-08	0.00E+00	6.82E-07	6.52E-07	3.09E-08	0.00E+00	6.82E-07	1.95E-07	5.55E-09	0.00E+00	2.01E-07	7.39E-08	1.79E-09	0.00E+00	7.57E-08
1033	457510	3767270	6.62E-07	3.14E-08	0.00E+00	6.94E-07	6.62E-07	3.14E-08	0.00E+00	6.94E-07	1.98E-07	5.64E-09	0.00E+00	2.04E-07	7.51E-08	1.82E-09	0.00E+00	7.69E-08
1034	457500	3767270	6.73E-07	3.18E-08	0.00E+00	7.05E-07	6.73E-07	3.18E-08	0.00E+00	7.05E-07	2.01E-07	5.73E-09	0.00E+00	2.07E-07	7.63E-08	1.85E-09	0.00E+00	7.82E-08
1035	457490.1	3767270	6.83E-07	3.23E-08	0.00E+00	7.15E-07	6.83E-07	3.23E-08	0.00E+00	7.15E-07	2.05E-07	5.81E-09	0.00E+00	2.10E-07	7.75E-08	1.88E-09	0.00E+00	7.94E-08
1036	457480.1	3767270	6.93E-07	3.28E-08	0.00E+00	7.26E-07	6.93E-07	3.28E-08	0.00E+00	7.26E-07	2.08E-07	5.90E-09	0.00E+00	2.14E-07	7.87E-08	1.91E-09	0.00E+00	8.06E-08
1037	457470.2	3767270	7.03E-07	3.33E-08	0.00E+00	7.36E-07	7.03E-07	3.33E-08	0.00E+00	7.36E-07	2.11E-07	5.99E-09	0.00E+00	2.17E-07	7.98E-08	1.93E-09	0.00E+00	8.17E-08
1038	457460.2	3767270	7.13E-07	3.38E-08	0.00E+00	7.47E-07	7.13E-07	3.38E-08	0.00E+00	7.47E-07	2.14E-07	6.07E-09	0.00E+00	2.20E-07	8.09E-08	1.96E-09	0.00E+00	8.28E-08
1039	457450.3	3767270	7.22E-07	3.42E-08	0.00E+00	7.57E-07	7.22E-07	3.42E-08	0.00E+00	7.57E-07	2.16E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.40E-08
1040	457440.3	3767270	7.32E-07	3.47E-08	0.00E+00	7.67E-07	7.32E-07	3.47E-08	0.00E+00	7.67E-07	2.19E-07	6.23E-09	0.00E+00	2.26E-07	8.31E-08	2.01E-09	0.00E+00	8.51E-08
1041	457430.4	3767270	7.42E-07	3.51E-08	0.00E+00	7.77E-07	7.42E-07	3.51E-08	0.00E+00	7.77E-07	2.22E-07	6.31E-09	0.00E+00	2.28E-07	8.42E-08	2.04E-09	0.00E+00	8.62E-08
1042	457420.4	3767270	7.51E-07	3.56E-08	0.00E+00	7.87E-07	7.51E-07	3.56E-08	0.00E+00	7.87E-07	2.25E-07	6.39E-09	0.00E+00	2.31E-07	8.52E-08	2.06E-09	0.00E+00	8.73E-08
1043	457410.5	3767270	7.6E-07	3.6E-08	0.00E+00	7.96E-07	7.60E-07	3.60E-08	0.00E+00	7.96E-07	2.28E-07	6.47E-09	0.00E+00	2.34E-07	8.62E-08	2.09E-09	0.00E+00	8.83E-08
1044	457400.5	3767270	7.68E-07	3.64E-08	0.00E+00	8.05E-07	7.68E-07	3.64E-08	0.00E+00	8.05E-07	2.30E-07	6.54E-09	0.00E+00	2.37E-07	8.72E-08	2.11E-09	0.00E+00	8.93E-08
1045	457390.6	3767270	7.77E-07	3.68E-08	0.00E+00	8.13E-07	7.77E-07	3.68E-08	0.00E+00	8.13E-07	2.33E-07	6.61E-09	0.00E+00	2.39E-07	8.81E-08	2.13E-09	0.00E+00	9.03E-08
1046	457380.6	3767270	7.85E-07	3.72E-08	0.00E+00	8.22E-07	7.85E-07	3.72E-08	0.00E+00	8.22E-07	2.35E-07	6.68E-09	0.00E+00	2.42E-07	8.90E-08	2.16E-09	0.00E+00	9.12E-08
1047	457370.7	3767270	7.92E-07	3.75E-08	0.00E+00	8.30E-07	7.92E-07	3.75E-08	0.00E+00	8.30E-07	2.37E-07	6.74E-09	0.00E+00	2.44E-07	8.99E-08	2.18E-09	0.00E+00	9.21E-08
1048	457360.7	3767270	8E-07	3.79E-08	0.00E+00	8.37E-07	8.00E-07	3.79E-08	0.00E+00	8.37E-07	2.39E-07	6.81E-09	0.00E+00	2.46E-07	9.07E-08	2.20E-09	0.00E+00	9.29E-08
1049	457350.8	3767270	8.06E-07	3.82E-08	0.00E+00	8.45E-07	8.06E-07	3.82E-08	0.00E+00	8.45E-07	2.42E-07	6.87E-09	0.00E+00	2.48E-07	9.15E-08	2.22E-09	0.00E+00	9.37E-08
1050	457340.8	3767270	8.13E-07	3.85E-08	0.00E+00	8.51E-07	8.13E-07	3.85E-08	0.00E+00	8.51E-07	2.44E-07	6.92E-09	0.00E+00	2.50E-07	9.22E-08	2.23E-09	0.00E+00	9.45E-08
1051	457330.9	3767270	8.19E-07	3.88E-08	0.00E+00	8.58E-07	8.19E-07	3.88E-08	0.00E+00	8.58E-07	2.45E-07	6.97E-09	0.00E+00	2.52E-07	9.29E-08	2.25E-09	0.00E+00	9.52E-08
1052	457708	3767233	4.32E-07	2.05E-08	0.00E+00	4.53E-07	4.32E-07	2.05E-08	0.00E+00	4.53E-07	1.29E-07	3.68E-09	0.00E+00	1.33E-07	4.90E-08	1.19E-09	0.00E+00	5.02E-08
1053	457717.1	3767237	4.27E-07	2.02E-08	0.00E+00	4.47E-07	4.27E-07	2.02E-08	0.00E+00	4.47E-07	1.28E-07	3.64E-09	0.00E+00	1.32E-07	4.85E-08	1.17E-09	0.00E+00	4.96E-08
1054	457726.2	3767241	4.22E-07	2E-08	0.00E+00	4.42E-07	4.22E-07	2.00E-08	0.00E+00	4.42E-07	1.26E-07	3.59E-09	0.00E+00	1.30E-07	4.79E-08	1.16E-09	0.00E+00	4.90E-08
1055	457735.3	3767244	4.17E-07	1.97E-08	0.00E+00	4.37E-07	4.17E-07	1.97E-08	0.00E+00	4.37E-07	1.25E-07	3.55E-09	0.00E+00	1.28E-07	4.73E-08	1.15E-09	0.00E+00	4.84E-08
1056	457744.4	3767248	4.12E-07	1.95E-08	0.00E+00	4.31E-07	4.12E-07	1.95E-08	0.00E+00	4.31E-07	1.23E-07	3.51E-09	0.00E+00	1.27E-07	4.67E-08	1.13E-09	0.00E+00	4.78E-08
1057	457753.4	3767252	4.07E-07	1.93E-08	0.00E+00	4.26E-07	4.07E-07	1.93E-08	0.00E+00	4.26E-07	1.22E-07	3.46E-09	0.00E+00	1.25E-07	4.61E-08	1.12E-09	0.00E+00	4.73E-08
1058	457762.5	3767256	4.02E-07	1.9E-08	0.00E+00	4.21E-07	4.02E-07	1.90E-08	0.00E+00	4.21E-07	1.20E-07	3.42E-09	0.00E+00	1.24E-07	4.56E-08	1.10E-09	0.00E+00	4.67E-08
1059	457771.6	3767259	3.97E-07	1.88E-08	0.00E+00	4.15E-07	3.97E-07	1.88E-08	0.00E+00	4.15E-07	1.19E-07	3.38E-09	0.00E+00	1.22E-07	4.50E-08	1.09E-09	0.00E+00	4.61E-08
1060	457780.7	3767263	3.91E-07	1.85E-08	0.00E+00	4.10E-07	3.91E-07	1.85E-08	0.00E+00	4.10E-07	1.17E-07	3.33E-09	0.00E+00	1.21E-07	4.44E-08	1.08E-09	0.00E+00	4.55E-08
1061	457789.8	3767267	3.86E-07	1.83E-08	0.00E+00	4.05E-07	3.86E-07	1.83E-08	0.00E+00	4.05E-07	1.16E-07	3.29E-09	0.00E+00	1.19E-07	4.38E-08	1.06E-09	0.00E+00	4.49E-08
1062	457798.9	3767271	3.81E-07	1.81E-08	0.00E+00	3.99E-07	3.81E-07	1.81E-08	0.00E+00	3.99E-07	1.14E-07	3.25E-09	0.00E+00	1.17E-07	4.33E-08	1.05E-09	0.00E+00	4.43E-08
1063	457807.9	3767274	3.76E-07	1.78E-08	0.00E+00	3.94E-07	3.76E-07	1.78E-08	0.00E+00	3.94E-07	1.13E-07	3.20E-09	0.00E+00	1.16E-07	4.27E-08	1.03E-09	0.00E+00	4.37E-08
1064	457817	3767278	3.71E-07	1.76E-08	0.00E+00	3.89E-07	3.71E-07	1.76E-08	0.00E+00	3.89E-07	1.11E-07	3.16E-09	0.00E+00	1.14E-07	4.21E-08	1.02E-09	0.00E+00	4.32E-08
1065	457826.1	3767282	3.66E-07	1.74E-08	0.00E+00	3.84E-07	3.66E-07	1.74E-08	0.00E+00	3.84E-07	1.10E-07	3.12E-09	0.00E+00	1.13E-07	4.16E-08	1.01E-09	0.00E+00	4.26E-08
1066	457835.2	3767285	3.62E-07	1.71E-08	0.00E+00	3.79E-07	3.62E-07	1.71E-08	0.00E+00	3.79E-07	1.08E-07	3.08E-09	0.00E+00	1.11E-07	4.10E-08	9.94E-10	0.00E+00	4.20E-08
1067	457844.3	3767289	3.57E-07	1.69E-08	0.00E+00	3.74E-07	3.57E-07	1.69E-08	0.00E+00	3.74E-07	1.07E-07	3.04E-09	0.00E+00	1.10E-07	4.05E-08	9.80E-10	0.00E+00	4.15E-08
1068	457853.4	3767293	3.52E-07	1.67E-08	0.00E+00	3.69E-07	3.52E-07	1.67E-08	0.00E+00	3.69E-07	1.05E-07	3.00E-09	0.00E+00	1.08E-07	3.99E-08	9.67E-10	0.00E+00	4.09E-08
1069	457862.5	3767297	3.47E-07	1.64E-08	0.00E+00	3.64E-07	3.47E-07	1.64E-08	0.00E+00	3.64E-07	1.04E-07	2.96E-09	0.00E+00	1.07E-07	3.94E-08	9.54E-10	0.00E+00	4.04E-08
1070	457871.5	3767300	3.43E-07	1.62E-08	0.00E+00	3.59E-07	3.43E-07	1.62E-08	0.00E+00	3.59E-07	1.03E-07	2.92E-09	0.00E+00	1.06E-07	3.89E-08	9.42E-10	0.00E+00	3.98E-08
1071	457880.6	3767304	3.38E-07	1.6E-08	0.00E+00	3.54E-07	3.38E-07	1.60E-08	0.00E+00	3.54E-07	1.01E-07	2.88E-09	0.00E+00	1.04E-07	3.84E-08	9.29E-10	0.00E+00	3.93E-08
1072	457889.7	3767308	3.34E-07	1.58E-08	0.00E+00	3.49E-07	3.34E-07	1.58E-08	0.00E+00	3.49E-07	9.99E-08	2.84E-09	0.00E+00	1.03E-07	3.79E-08	9.17E-10	0.00E+00	3.88E-08
1073	457898.8	3767311	3.29E-07	1.56E-08	0.00E+00	3.45E-07	3.29E-07	1.56E-08	0.00E+00	3.45E-07	9.86E-08	2.80E-09	0.00E+00	1.01E-07	3.73E-08	9.05E-10	0.00E+00	3.83E-08
1074	457907.9	3767315	3.25E-07	1.54E-08	0.00E+00	3.40E-07	3.25E-07	1.54E-08	0.00E+00	3.40E-07	9.73E-08	2.76E-09	0.00E+00	1.00E-07	3.68E-08	8.92E-10	0.00E+00	3.77E-08
1075	457917	3767319	3.2E-07	1.52E-08	0.00E+00	3.36E-07	3.20E-07	1.52E-08	0.00E+00	3.36E-07	9.60E-08	2.73E-09	0.00E+00	9.87E-08	3.63E-08	8.81E-10	0.00E+00	3.72E-08
1076	457926	3767323	3.16E-07	1.5E-08	0.00E+00	3.31E-07	3.16E-07	1.50E-08	0.00E+00	3.31E-07	9.47E-08	2.69E-09	0.00E+00	9.74E-08	3.59E-08	8.69E-10	0.00E+00	3.67E-08
1077	457935.1	3767326	3.12E-07	1.48E-08	0.00E+00	3.27E-07	3.12E-07	1.48E-08	0.00E+00	3.27E-07	9.34E-08	2.65E-09	0.00E+00	9.61E-08	3.54E-08	8.57E-10	0.00E+00	3.62E-08
1078	457944.2	3767330	3.08E-07	1.46E-08	0.00E+00	3.22E-07	3.08E-07	1.46E-08	0.00E+00	3.22E-07	9.22E-08	2.62E-09	0.00E+00	9.48E-08	3.49E-08	8.46E-10	0.00E+00	3.58E-08
1079	457953.3	3767334	3.04E-07	1.44E-08	0.00E+00	3.18E-07	3.04E-07	1.44E-08	0.00E+00	3.18E-07	9.09E-08	2.58E-09	0.00E+00	9.35E-08	3.44E-08	8.34E-10	0.00E+00	3.53E-08
1080	457962.4	3767337	3E-07	1.42E-08	0.00E+00	3.14E-07	3.00E-07	1.42E-08	0.00E+00	3.14E-07	8.97E-08	2.55E-09	0.00E+00	9.23E-08	3.40E-08	8.23E-10	0.00E+00	3.48E-08
1081	458244	3767453	2.09E-07	9.9E-09	0.00E+00	2.19E-07	2.09E-07	9.90E-09	0.00E+00	2.19E-07	6.26E-08	1.78E-09	0.00E+00	6.44E-08	2.37E-08	5.74E-10	0.00E+00	2.43E-08
1082	458253	3767456	2.07E-07	9.81E-09	0.00E+00	2.17E-07	2.07E-07	9.81E-09	0.00E+00	2.17E-07	6.20E-08	1.76E-09	0.00E+00	6.38E-08	2.35E-08	5.69E-10	0.00E+00	2.41E-08
1083	458266	3767469	2.06E-07	9.76E-09	0.00E+00	2.16E-07	2.06E-07	9.76E-09	0.00E+00	2.16E-07	6.18E-08	1.76E-09	0.00E+00	6.35E-08	2.34E-08	5.67E-10	0.00E+00	2.40E-08
1084	458269.8	3767478	2.07E-07	9.81E-09	0.00E+00	2.17E-07	2.07E-07	9.81E-09	0.00E+00	2.17E-07	6.20E-08	1.76E-09	0.00E+00	6.38E-08	2.35E-08	5.69E-10	0.00E+00	2.41E-08
1085	458273.6	3767487	2.08E-07	9.86E-09	0.00E+00	2.18E-07	2.08E-07	9.86E-09	0.00E+00	2.18E-07	6.24E-08	1.77E-09	0.00E+00	6.41E-08	2.36E-08	5.72E-10	0.00E+00	2.42E-08
1086	458277.5	3767496	2.09E-07	9.91E-09	0.00E+00	2.19E-07	2.09E-07	9.91E-09	0.00E+00	2.19E-07	6.27E-08	1.78E-09	0.00E+00	6.45E-08	2.37E-08	5.75E-10	0.00E+00	2.43E-08
1087	458281.3	3767505	2.1E-07	9.96E-09	0.00E+00	2.20E-07	2.10E-07	9.96E-09	0.00E+00	2.20E-07	6.30E-08	1.79E-09	0.00E+00	6.48E-08	2.39E-08	5.78E-10	0.00E+00	2.44E-08
1088	458285.2	3767514	2.12E-07	1E-08	0.00E+00	2.22E-07	2.12E-07	1.00E-08	0.00E+00	2.22E-07	6.34E-08	1.80E-09	0.00E+00	6.52E-08	2.40E-08	5.81E-10	0.00E+00	2.46E-08
1089	458289	3767523	2.13E-07	1.01E-08	0.00E+00	2.23E-07	2.13E-07	1.01E-08	0.00E+00	2.23E-07	6.37E-08	1.81E-09	0.00E+00	6.56E-08	2.41E-08	5.85E-10	0.00E+00	2.47E-08
1090	458292.8	3767532	2.14E-07	1.01E-08	0.00E+00	2.24E-07	2.14E-07	1.01E-08	0.00E+00	2.24E-07	6.42E-08	1.82E-09	0.00E+00	6.60E-08	2.43E-08	5.89E-10	0.00E+00	2.49E-08
1091	458296.7	3767541	2.16E-07	1.02E-08	0.00E+00	2.26E-07	2.16E-07	1.02E-08	0.00E+00	2.26E-07	6.46E-08	1.84E-09	0.00E+00	6.64E-08	2.45E-08	5.93E-10	0.00E+00	2.51E-08
1092	458300.5	3767551	2.17E-07	1.03E-08	0.00E+00	2.27E-07	2.17E-07	1.03E-08	0.00E+00	2.27E-07	6.50E-08	1.85E-09	0.00E+00	6.69E-08	2.46E-08	5.97E-10	0.00E+00	2.52E-08
1093	458304.4	3767560	2.19E-07	1.04E-08	0.00E+00	2.29E-07	2.19E-07	1.04E-08	0.00E+00	2.29E-07	6.55E-08	1.86E-09	0.00E+00	6.73E-08	2.48E-08	6.01E-10	0.00E+00	2.54E-08
1094	458308.2	3767569	2.2E-07	1.04E-08	0.00E+00	2.31E-07	2.20E-07	1.04E-08	0.00E+00	2.31E-07	6.60E-08	1.88E-09	0.00E+00	6.79E-08	2.50E-08	6.05E-10	0.00E+00	2.56E-08
1095	457698.9	3767230	4.38E-07	2.07E-08	0.00E+00	4.58E-07	4.38E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1096	457689	3767230	4.46E-07	2.11E-08	0.00E+00	4.67E-07	4.46E-07	2.11E-08	0.00E+00	4.67E-07	1.34E-07	3.80E-09	0.00E+00	1.37E-07	5.06E-08	1.23E-09	0.00E+00	5.18E-08
1097	457679	3767230	4.55E-07	2.15E-08	0.00E+00	4.76E-07	4.55E-07	2.15E-08	0.00E+00	4.76E-07	1.36E-07	3.87E-09	0.00E+00	1.40E-07	5.16E-08	1.25E-09	0.00E+00	5.28E-08

1098	457669.1	3767230	4.63E-07	2.19E-08	0.00E+00	4.85E-07	4.63E-07	2.19E-08	0.00E+00	4.85E-07	1.39E-07	3.94E-09	0.00E+00	1.43E-07	5.26E-08	1.27E-09	0.00E+00	5.38E-08
1099	457659.2	3767230	4.72E-07	2.24E-08	0.00E+00	4.95E-07	4.72E-07	2.24E-08	0.00E+00	4.95E-07	1.41E-07	4.02E-09	0.00E+00	1.45E-07	5.36E-08	1.30E-09	0.00E+00	5.49E-08
1100	457649.2	3767230	4.81E-07	2.28E-08	0.00E+00	5.04E-07	4.81E-07	2.28E-08	0.00E+00	5.04E-07	1.44E-07	4.10E-09	0.00E+00	1.48E-07	5.46E-08	1.32E-09	0.00E+00	5.59E-08
1101	457639.3	3767230	4.9E-07	2.32E-08	0.00E+00	5.13E-07	4.90E-07	2.32E-08	0.00E+00	5.13E-07	1.47E-07	4.17E-09	0.00E+00	1.51E-07	5.56E-08	1.35E-09	0.00E+00	5.70E-08
1102	457629.3	3767230	4.99E-07	2.36E-08	0.00E+00	5.23E-07	4.99E-07	2.36E-08	0.00E+00	5.23E-07	1.50E-07	4.25E-09	0.00E+00	1.54E-07	5.67E-08	1.37E-09	0.00E+00	5.80E-08
1103	457619.4	3767230	5.09E-07	2.41E-08	0.00E+00	5.33E-07	5.09E-07	2.41E-08	0.00E+00	5.33E-07	1.52E-07	4.33E-09	0.00E+00	1.57E-07	5.77E-08	1.40E-09	0.00E+00	5.91E-08
1104	457609.4	3767230	5.18E-07	2.45E-08	0.00E+00	5.43E-07	5.18E-07	2.45E-08	0.00E+00	5.43E-07	1.55E-07	4.41E-09	0.00E+00	1.60E-07	5.88E-08	1.42E-09	0.00E+00	6.02E-08
1105	457599.5	3767230	5.28E-07	2.5E-08	0.00E+00	5.52E-07	5.28E-07	2.50E-08	0.00E+00	5.52E-07	1.58E-07	4.49E-09	0.00E+00	1.62E-07	5.98E-08	1.45E-09	0.00E+00	6.13E-08
1106	457589.5	3767230	5.37E-07	2.54E-08	0.00E+00	5.62E-07	5.37E-07	2.54E-08	0.00E+00	5.62E-07	1.61E-07	4.57E-09	0.00E+00	1.65E-07	6.09E-08	1.48E-09	0.00E+00	6.24E-08
1107	457579.6	3767230	5.47E-07	2.59E-08	0.00E+00	5.72E-07	5.47E-07	2.59E-08	0.00E+00	5.72E-07	1.64E-07	4.65E-09	0.00E+00	1.68E-07	6.20E-08	1.50E-09	0.00E+00	6.35E-08
1108	457569.6	3767230	5.56E-07	2.63E-08	0.00E+00	5.82E-07	5.56E-07	2.63E-08	0.00E+00	5.82E-07	1.67E-07	4.73E-09	0.00E+00	1.71E-07	6.31E-08	1.53E-09	0.00E+00	6.46E-08
1109	457559.7	3767230	5.66E-07	2.68E-08	0.00E+00	5.92E-07	5.66E-07	2.68E-08	0.00E+00	5.92E-07	1.69E-07	4.81E-09	0.00E+00	1.74E-07	6.42E-08	1.55E-09	0.00E+00	6.57E-08
1110	457549.7	3767230	5.75E-07	2.72E-08	0.00E+00	6.02E-07	5.75E-07	2.72E-08	0.00E+00	6.02E-07	1.72E-07	4.90E-09	0.00E+00	1.77E-07	6.52E-08	1.58E-09	0.00E+00	6.68E-08
1111	457539.8	3767230	5.84E-07	2.77E-08	0.00E+00	6.12E-07	5.84E-07	2.77E-08	0.00E+00	6.12E-07	1.75E-07	4.98E-09	0.00E+00	1.80E-07	6.63E-08	1.61E-09	0.00E+00	6.79E-08
1112	457529.8	3767230	5.94E-07	2.81E-08	0.00E+00	6.22E-07	5.94E-07	2.81E-08	0.00E+00	6.22E-07	1.78E-07	5.06E-09	0.00E+00	1.83E-07	6.74E-08	1.63E-09	0.00E+00	6.90E-08
1113	457519.9	3767230	6.04E-07	2.86E-08	0.00E+00	6.32E-07	6.04E-07	2.86E-08	0.00E+00	6.32E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.85E-08	1.66E-09	0.00E+00	7.01E-08
1114	457509.9	3767230	6.13E-07	2.9E-08	0.00E+00	6.42E-07	6.13E-07	2.90E-08	0.00E+00	6.42E-07	1.84E-07	5.22E-09	0.00E+00	1.89E-07	6.96E-08	1.68E-09	0.00E+00	7.12E-08
1115	457500	3767230	6.22E-07	2.95E-08	0.00E+00	6.52E-07	6.22E-07	2.95E-08	0.00E+00	6.52E-07	1.86E-07	5.30E-09	0.00E+00	1.92E-07	7.06E-08	1.71E-09	0.00E+00	7.23E-08
1116	457490	3767230	6.32E-07	2.99E-08	0.00E+00	6.62E-07	6.32E-07	2.99E-08	0.00E+00	6.62E-07	1.89E-07	5.38E-09	0.00E+00	1.95E-07	7.17E-08	1.74E-09	0.00E+00	7.34E-08
1117	457480.1	3767230	6.41E-07	3.04E-08	0.00E+00	6.71E-07	6.41E-07	3.04E-08	0.00E+00	6.71E-07	1.92E-07	5.46E-09	0.00E+00	1.97E-07	7.27E-08	1.76E-09	0.00E+00	7.45E-08
1118	457470.1	3767230	6.5E-07	3.08E-08	0.00E+00	6.81E-07	6.50E-07	3.08E-08	0.00E+00	6.81E-07	1.95E-07	5.54E-09	0.00E+00	2.00E-07	7.38E-08	1.79E-09	0.00E+00	7.56E-08
1119	457460.2	3767230	6.59E-07	3.12E-08	0.00E+00	6.90E-07	6.59E-07	3.12E-08	0.00E+00	6.90E-07	1.97E-07	5.61E-09	0.00E+00	2.03E-07	7.48E-08	1.81E-09	0.00E+00	7.66E-08
1120	457450.2	3767230	6.68E-07	3.16E-08	0.00E+00	7.00E-07	6.68E-07	3.16E-08	0.00E+00	7.00E-07	2.00E-07	5.69E-09	0.00E+00	2.06E-07	7.58E-08	1.84E-09	0.00E+00	7.76E-08
1121	457440.3	3767230	6.77E-07	3.2E-08	0.00E+00	7.09E-07	6.77E-07	3.20E-08	0.00E+00	7.09E-07	2.03E-07	5.76E-09	0.00E+00	2.08E-07	7.68E-08	1.86E-09	0.00E+00	7.86E-08
1122	457430.3	3767230	6.85E-07	3.24E-08	0.00E+00	7.18E-07	6.85E-07	3.24E-08	0.00E+00	7.18E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
1123	457420.4	3767230	6.94E-07	3.28E-08	0.00E+00	7.26E-07	6.94E-07	3.28E-08	0.00E+00	7.26E-07	2.08E-07	5.90E-09	0.00E+00	2.14E-07	7.87E-08	1.91E-09	0.00E+00	8.06E-08
1124	457410.4	3767230	7.02E-07	3.32E-08	0.00E+00	7.35E-07	7.02E-07	3.32E-08	0.00E+00	7.35E-07	2.10E-07	5.97E-09	0.00E+00	2.16E-07	7.96E-08	1.93E-09	0.00E+00	8.15E-08
1125	457400.5	3767230	7.1E-07	3.36E-08	0.00E+00	7.43E-07	7.10E-07	3.36E-08	0.00E+00	7.43E-07	2.13E-07	6.04E-09	0.00E+00	2.19E-07	8.05E-08	1.95E-09	0.00E+00	8.24E-08
1126	457390.5	3767230	7.17E-07	3.4E-08	0.00E+00	7.51E-07	7.17E-07	3.40E-08	0.00E+00	7.51E-07	2.15E-07	6.11E-09	0.00E+00	2.21E-07	8.14E-08	1.97E-09	0.00E+00	8.33E-08
1127	457380.6	3767230	7.24E-07	3.43E-08	0.00E+00	7.59E-07	7.24E-07	3.43E-08	0.00E+00	7.59E-07	2.17E-07	6.17E-09	0.00E+00	2.23E-07	8.22E-08	1.99E-09	0.00E+00	8.42E-08
1128	457370.6	3767230	7.32E-07	3.46E-08	0.00E+00	7.66E-07	7.32E-07	3.46E-08	0.00E+00	7.66E-07	2.19E-07	6.23E-09	0.00E+00	2.25E-07	8.30E-08	2.01E-09	0.00E+00	8.50E-08
1129	457360.7	3767230	7.38E-07	3.5E-08	0.00E+00	7.73E-07	7.38E-07	3.50E-08	0.00E+00	7.73E-07	2.21E-07	6.29E-09	0.00E+00	2.27E-07	8.38E-08	2.03E-09	0.00E+00	8.58E-08
1130	457350.7	3767230	7.45E-07	3.53E-08	0.00E+00	7.80E-07	7.45E-07	3.53E-08	0.00E+00	7.80E-07	2.23E-07	6.34E-09	0.00E+00	2.29E-07	8.45E-08	2.05E-09	0.00E+00	8.66E-08
1131	457340.8	3767230	7.51E-07	3.56E-08	0.00E+00	7.87E-07	7.51E-07	3.56E-08	0.00E+00	7.87E-07	2.25E-07	6.39E-09	0.00E+00	2.31E-07	8.52E-08	2.06E-09	0.00E+00	8.73E-08
1132	457330.8	3767230	7.57E-07	3.58E-08	0.00E+00	7.93E-07	7.57E-07	3.58E-08	0.00E+00	7.93E-07	2.27E-07	6.44E-09	0.00E+00	2.33E-07	8.59E-08	2.08E-09	0.00E+00	8.80E-08
1133	457277.8	3767568	1.65E-06	7.81E-08	0.00E+00	1.73E-06	1.65E-06	7.81E-08	0.00E+00	1.73E-06	4.94E-07	1.40E-08	0.00E+00	5.08E-07	1.87E-07	4.53E-09	0.00E+00	1.92E-07
1134	457286.5	3767565	1.64E-06	7.75E-08	0.00E+00	1.71E-06	1.64E-06	7.75E-08	0.00E+00	1.71E-06	4.90E-07	1.39E-08	0.00E+00	5.04E-07	1.86E-07	4.50E-09	0.00E+00	1.90E-07
1135	457180.9	3767569	1.54E-06	7.31E-08	0.00E+00	1.62E-06	1.54E-06	7.31E-08	0.00E+00	1.62E-06	4.62E-07	1.31E-08	0.00E+00	4.75E-07	1.75E-07	4.24E-09	0.00E+00	1.79E-07
1136	457189.7	3767565	1.55E-06	7.32E-08	0.00E+00	1.62E-06	1.55E-06	7.32E-08	0.00E+00	1.62E-06	4.63E-07	1.32E-08	0.00E+00	4.76E-07	1.75E-07	4.25E-09	0.00E+00	1.80E-07
1137	457198.5	3767562	1.55E-06	7.32E-08	0.00E+00	1.62E-06	1.55E-06	7.32E-08	0.00E+00	1.62E-06	4.63E-07	1.32E-08	0.00E+00	4.76E-07	1.75E-07	4.25E-09	0.00E+00	1.80E-07
1138	457207.2	3767558	1.55E-06	7.32E-08	0.00E+00	1.62E-06	1.55E-06	7.32E-08	0.00E+00	1.62E-06	4.63E-07	1.32E-08	0.00E+00	4.76E-07	1.75E-07	4.25E-09	0.00E+00	1.80E-07
1139	457216	3767554	1.54E-06	7.31E-08	0.00E+00	1.62E-06	1.54E-06	7.31E-08	0.00E+00	1.62E-06	4.62E-07	1.31E-08	0.00E+00	4.75E-07	1.75E-07	4.24E-09	0.00E+00	1.79E-07
1140	457224.8	3767551	1.54E-06	7.29E-08	0.00E+00	1.61E-06	1.54E-06	7.29E-08	0.00E+00	1.61E-06	4.61E-07	1.31E-08	0.00E+00	4.74E-07	1.75E-07	4.23E-09	0.00E+00	1.79E-07
1141	457233.6	3767547	1.53E-06	7.26E-08	0.00E+00	1.61E-06	1.53E-06	7.26E-08	0.00E+00	1.61E-06	4.60E-07	1.31E-08	0.00E+00	4.73E-07	1.74E-07	4.22E-09	0.00E+00	1.78E-07
1142	457242.3	3767543	1.53E-06	7.24E-08	0.00E+00	1.60E-06	1.53E-06	7.24E-08	0.00E+00	1.60E-06	4.58E-07	1.30E-08	0.00E+00	4.71E-07	1.73E-07	4.20E-09	0.00E+00	1.78E-07
1143	457251.1	3767540	1.52E-06	7.2E-08	0.00E+00	1.59E-06	1.52E-06	7.20E-08	0.00E+00	1.59E-06	4.56E-07	1.30E-08	0.00E+00	4.69E-07	1.73E-07	4.18E-09	0.00E+00	1.77E-07
1144	457259.9	3767536	1.51E-06	7.16E-08	0.00E+00	1.58E-06	1.51E-06	7.16E-08	0.00E+00	1.58E-06	4.53E-07	1.29E-08	0.00E+00	4.66E-07	1.72E-07	4.16E-09	0.00E+00	1.76E-07
1145	457268.7	3767532	1.5E-06	7.12E-08	0.00E+00	1.57E-06	1.50E-06	7.12E-08	0.00E+00	1.57E-06	4.50E-07	1.28E-08	0.00E+00	4.63E-07	1.71E-07	4.13E-09	0.00E+00	1.75E-07
1146	457277.4	3767529	1.49E-06	7.06E-08	0.00E+00	1.56E-06	1.49E-06	7.06E-08	0.00E+00	1.56E-06	4.47E-07	1.27E-08	0.00E+00	4.59E-07	1.69E-07	4.10E-09	0.00E+00	1.73E-07
1147	457286.2	3767525	1.48E-06	7E-08	0.00E+00	1.55E-06	1.48E-06	7.00E-08	0.00E+00	1.55E-06	4.43E-07	1.26E-08	0.00E+00	4.56E-07	1.68E-07	4.06E-09	0.00E+00	1.72E-07
1148	457091.9	3767566	1.35E-06	6.41E-08	0.00E+00	1.42E-06	1.35E-06	6.41E-08	0.00E+00	1.42E-06	4.06E-07	1.15E-08	0.00E+00	4.17E-07	1.54E-07	3.72E-09	0.00E+00	1.57E-07
1149	457100.7	3767562	1.37E-06	6.47E-08	0.00E+00	1.43E-06	1.37E-06	6.47E-08	0.00E+00	1.43E-06	4.09E-07	1.16E-08	0.00E+00	4.21E-07	1.55E-07	3.75E-09	0.00E+00	1.59E-07
1150	457109.6	3767559	1.38E-06	6.52E-08	0.00E+00	1.44E-06	1.38E-06	6.52E-08	0.00E+00	1.44E-06	4.12E-07	1.17E-08	0.00E+00	4.24E-07	1.56E-07	3.78E-09	0.00E+00	1.60E-07
1151	457118.4	3767555	1.39E-06	6.56E-08	0.00E+00	1.45E-06	1.39E-06	6.56E-08	0.00E+00	1.45E-06	4.15E-07	1.18E-08	0.00E+00	4.27E-07	1.57E-07	3.81E-09	0.00E+00	1.61E-07
1152	457127.2	3767551	1.39E-06	6.6E-08	0.00E+00	1.46E-06	1.39E-06	6.60E-08	0.00E+00	1.46E-06	4.18E-07	1.19E-08	0.00E+00	4.29E-07	1.58E-07	3.83E-09	0.00E+00	1.62E-07
1153	457136	3767548	1.4E-06	6.63E-08	0.00E+00	1.47E-06	1.40E-06	6.63E-08	0.00E+00	1.47E-06	4.20E-07	1.19E-08	0.00E+00	4.32E-07	1.59E-07	3.85E-09	0.00E+00	1.63E-07
1154	457144.8	3767544	1.41E-06	6.66E-08	0.00E+00	1.47E-06	1.41E-06	6.66E-08	0.00E+00	1.47E-06	4.22E-07	1.20E-08	0.00E+00	4.34E-07	1.60E-07	3.87E-09	0.00E+00	1.64E-07
1155	457153.7	3767540	1.41E-06	6.69E-08	0.00E+00	1.48E-06	1.41E-06	6.69E-08	0.00E+00	1.48E-06	4.23E-07	1.20E-08	0.00E+00	4.35E-07	1.60E-07	3.88E-09	0.00E+00	1.64E-07
1156	457162.5	3767537	1.42E-06	6.7E-08	0.00E+00	1.48E-06	1.42E-06	6.70E-08	0.00E+00	1.48E-06	4.24E-07	1.20E-08	0.00E+00	4.36E-07	1.61E-07	3.89E-09	0.00E+00	1.64E-07
1157	457171.3	3767533	1.42E-06	6.71E-08	0.00E+00	1.48E-06	1.42E-06	6.71E-08	0.00E+00	1.48E-06	4.25E-07	1.21E-08	0.00E+00	4.37E-07	1.61E-07	3.90E-09	0.00E+00	1.65E-07
1158	457180.1	3767529	1.42E-06	6.72E-08	0.00E+00	1.49E-06	1.42E-06	6.72E-08	0.00E+00	1.49E-06	4.25E-07	1.21E-08	0.00E+00	4.37E-07	1.61E-07	3.90E-09	0.00E+00	1.65E-07
1159	457189	3767525	1.42E-06	6.71E-08	0.00E+00	1.49E-06	1.42E-06	6.71E-08	0.00E+00	1.49E-06	4.25E-07	1.21E-08	0.00E+00	4.37E-07	1.61E-07	3.90E-09	0.00E+00	1.65E-07
1160	457197.8	3767522	1.42E-06	6.71E-08	0.00E+00	1.48E-06	1.42E-06	6.71E-08	0.00E+00	1.48E-06	4.24E-07	1.21E-08	0.00E+00	4.36E-07	1.61E-07	3.89E-09	0.00E+00	1.65E-07
1161	457206.6	3767518	1.41E-06	6.69E-08	0.00E+00	1.48E-06	1.41E-06	6.69E-08	0.00E+00	1.48E-06	4.23E-07	1.20E-08	0.00E+00	4.35E-07	1.60E-07	3.89E-09	0.00E+00	1.64E-07
1162	457215.4	3767514	1.41E-06	6.68E-08	0.00E+00	1.48E-06	1.41E-06	6.68E-08	0.00E+00	1.48E-06	4.22E-07	1.20E-08	0.00E+00	4.34E-07	1.60E-07	3.88E-09	0.00E+00	1.64E-07
1163	457224.2	3767511	1.41E-06	6.65E-08	0.00E+00	1.47E-06	1.41E-06	6.65E-08	0.00E+00	1.47E-06	4.21E-07	1.20E-08	0.00E+00	4.33E-07	1.59E-07	3.86E-09	0.00E+00	1.63E-07
1164	457233.1	3767507	1.4E-06	6.62E-08	0.00E+00	1.47E-06	1.40E-06	6.62E-08	0.00E+00	1.47E-06	4.19E-07	1.19E-08	0.00E+00	4.31E-07	1.59E-07	3.84E-09	0.00E+00	1.63E-07
1165	457241.9	3767503	1.39E-06	6.59E-08	0.00E+00	1.46E-06	1.39E-06	6.59E-08	0.00E+00	1.46E-06	4.17E-07	1.18E-08	0.00E+00	4.29E-07	1.58E-07	3.83E-09	0.00E+00	1.62E-07
1166	457250.7	3767500	1.38E-06	6.55E-08	0.00E+00	1.45E-06	1.38E-06	6.55E-08	0.00E+00	1.45E-06	4.15E-07	1.18E-08	0.00E+00	4.26E-07	1.57E-07	3.80E-09	0.00E+00	1.61E-07
1167	457259.5	3767496	1.38E-06	6.51E-08	0.00E+00	1.44E-06	1.38E-06	6.51E-08	0.00E+00	1.44E-06	4.12E-07	1.17E-08	0.00E+00	4.24E-07	1.56E-07	3.78E-09	0.00E+00	1.60E-07
1168	457268.3	3767492	1.36E-06	6.46E-08	0.00E+00	1.43E-06	1.36E-06	6.46E-08	0.00E+00	1.43E-06	4.09E-07	1.16E-08	0.00E+00	4.20E-07	1.55E-07	3.75E-09	0.00E+00	1.59E-07
1169	457277.2	3767489	1.35E-06	6.41E-08	0.00E+00	1.42E-06	1.35E-06	6.41E-08	0.00E+00	1.42E-06	4.05E-07	1.15E-08	0.00E+00	4.17E-07	1.54E-07	3.72E-09	0.00E+00	1.57E-07
1170	457286	3767485	1.34E-06	6.35E-08	0.00E+00	1.40E-06	1.34E-06	6.35E-08	0.00E+00	1.40E-06	4.02E-07	1.14E-08	0.00E+00	4.13E-07	1.52E-07	3.69E-09	0.00E+00	1.56E-07
1171	456993.4	3767567	1.13E-06	5.34E-08	0.00E+00	1.18E-06	1.13E-06	5.34E-08	0.00E+00	1.18E-06	3.38E-07	9.61E-09	0.00E+00	3.48E-07	1.28E-07	3.10E-09	0.00E+00	1.31E-07
1172	457002.2	3767563	1.14E-06	5.42E-08	0.00E+00	1.20E-06	1.14E-06	5.42E-08	0.00E+00	1.20E-06	3.43E-07	9.74E-09	0.00E+00	3.52E-07	1.30E-07	3.14E-09	0.00E+00	1.33E-07
1173	457011.1	3767560	1.16E-06	5.48E-08	0.00E+00	1.21E-06	1.16E-06	5.48E-08	0.00E+00	1.21E-06	3.47E-07	9.86E-09	0.00E+00	3.57E-07	1.31E-07	3.18E-09	0.00E+00	1.35E-07
1174	457020	3767556	1.17E-06	5.55E-08	0.00E+00	1.23E-06	1.17E-06	5.55E-08	0.00E+00	1.23E-06	3.51E-07	9.98E-09	0.00E+00	3.61E-07	1.33E-07	3.22E-09	0.00E+00	1.36E-07
1175	457028.8	3767552	1.19E-06	5.62E-08	0.00E+00	1.24E-06	1.19E-06	5.62E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.65E-07	1.35E-07	3.26E-09	0.00E+00	1.38E-07
1176	457037.7	3767549	1.2E-06	5.68E-08	0.00E+00	1.26E-06	1.20E-06	5.68E-08	0.00E+00	1.26E-06	3.59E-07	1.02E-08	0.00E+00	3.70E-07	1.36E-07	3.30E-09	0.00E+00	1.39E-07
1177	457046.5	3767545	1.21E-06	5.74E-08	0.00E+00	1.27E-06	1.21E-06	5.74E-08	0.00E+00	1.27E-06	3.63E-07	1.03E-08	0.00E+00	3.74E-07	1.38E-07	3.33E-09	0.00E+00	1.41E-07
1178	457055.4	3767541	1.23E-06	5.8E-08	0.00E+00	1.28E-06	1.23E-06	5.80E-08	0.00E+00	1.28E-06	3.67E-07	1.04E-08	0.00E+00	3.77E-07	1.39E-07	3.37E-09	0.00E+00	1.42E-07
1179	457064.3	3767538	1.24E-06	5.86E-08	0.00E+00	1.30E-06	1.24E-06	5.86E-08	0.00E+00	1.30E-06	3.70E-07	1.05E-08	0.00E+00	3.81E-07	1.40E-07	3.40E-09	0.00E+00	1.44E-07
1180	457073.1	3767534	1.25E-06	5.91E-08	0.00E+00	1.31E-06	1.25E-06	5.91E-08	0.00E+00	1.31E-06	3.74E-07	1.06E-08	0.00E+00	3.84E-07	1.42E-07	3.43E-09	0.00E+00	1.45E-07
1181	457082	3767530	1.26E-06	5.96E-08	0.00E+00	1.32E-06	1.26E-06	5.96E-08	0.00E+00	1.32E-06	3.77E-07	1.07E-08	0.00E+00	3.88E-07	1.43E-07	3.46E-09	0.00E+00	1.46E-07
1182	457090.8	3767526	1.27E-06	6E-08	0.00E+00	1.33E-06	1.27E-06	6.00E-08	0.00E+00	1.33E-06	3.80E-07	1.08E-08	0.00E+00	3.90E-07	1.44E-07	3.48E-09	0.00E+00	1.47E-07
1183	457099.7	3767523	1.28E-06	6.04E-08	0.00E+00	1.34E-06	1.28E-06	6.04E-08	0.00E+00	1.34E-06	3.82E-07	1.09E-08	0.00E+00	3.93E-07	1.45E-07	3.51E-09	0.00E+00	1.48E-07
1184	457108.6	3767519	1.28E-06	6.08E-08	0.00E+00	1.34E-06	1.28E-06	6.08E-08	0.00E+00	1.34E-06	3.84E-07	1.09E-08	0.00E+00	3.95E-07	1.46E-07	3.53E-09	0.00E+00	1.49E-07
1185	457117.4	3767515	1.29E-06	6.11E-08	0.00E+00	1.35E-06	1.29E-06	6.11E-08	0.00E+00	1.35E-06	3.86E-07	1.10E-08	0.00E+00	3.97E-07	1.46E-07	3.54E-09	0.00E+00	1.50E-07
1186	457126.3	3767512	1.29E-06	6.13E-08	0.00E+00	1.36E-06	1.29E-06	6.13E-08	0.00E+00	1.36E-06	3.88E-07	1.10E-08	0.00E+00	3.99E-07	1.47E-07	3.56E-09	0.00E+00	1.50E-07
1187	457135.1	3767508	1.3E-06	6.15E-08	0.00E+00	1.36E-06	1.30E-06	6.15E-08	0.00E+00	1.36E-06	3.89E-07	1.11E-08	0.00E+00	4.00E-07	1.47E-07	3.57E-09	0.00E+00	1.51E-07
1188	457144	3767504	1.3E-06	6.17E-08	0.00E+00	1.36E-06	1.30E-06	6.17E-08	0.00E+00	1.36E-06	3.90E-07	1.11E-08	0.00E+00	4.01E-07	1.48E-07	3.58E-09	0.00E+00	1.51E-07
1189	457152.9	3767501	1.31E-06	6.18E-08	0.00E+00	1.37E-06	1.31E-06	6.18E-08	0.00E+00	1.37E-06	3.91E-07	1.11E-08	0.00E+00	4.02E-07	1.48E-07	3.59E-09	0.00E+00	1.52E-07
1190	457161.7	3767497	1.31E-06	6.19E-08	0.00E+00	1.37E-06	1.31E-06	6.19E-08	0.00E+00	1.37E-06	3.91E-07	1.11E-08	0.00E+00	4.02E-07	1.48E-07	3.59E-09	0.00E+00	1.52E-07
1191	457170.6	3767493	1.31E-06	6.19E-08	0.00E+00	1.37E-06	1.31E-06	6.19E-08	0.00E+00	1.37E-06	3.91E-07	1.11E-08	0.00E+00	4.03E-07	1.48E-07	3.59E-09	0.00E+00	1.52E-07
1192	457179.4	3767489	1.31E-06	6.18E-08	0.00E+00	1.37E-06	1.31E-06	6.18E-08	0.00E+00	1.37E-06	3.91E-07	1.11E-08	0.00E+00	4.02E-07	1.48E-07	3.59E-09	0.00E+00	1.52E-07
1193	457188.3	3767486	1.3E-06	6.17E-08	0.00E+00	1.37E-06	1.30E-06	6.17E-08	0.00E+00	1.37E-06	3.91E-07	1.11E-08	0.00E+00	4.02E-07	1.48E-07	3.58E-09	0.00E+00	1.52E-07
1194	457197.2	3767482	1.3E-06	6.16E-08	0.00E+00	1.36E-06	1.30E-06	6.16E-08	0.00E+00	1.36E-06	3.90E-07	1.11E-08	0.00E+00	4.01E-07	1.48E-07	3.58E-09	0.00E+00	1.51E-07
1195	457206	3767478	1.3E-06	6.14E-08	0.00E+00	1.36E-06	1.30E-06	6.14E-08	0.00E+00	1.36E-06	3.88E-07	1.10E-08	0.00E+00	4.00E-07	1.47E-07	3.56E-09	0.00E+00	1.51E-07
1196	457214.9	3767475	1.29E-06	6.12E-08	0.00E+00	1.35E-06	1.29E-06	6.12E-08	0.00E+00	1.35E-06	3.87E-07	1.10E-08	0.00E+00	3.98E-07	1.47E-07	3.55E-09	0.00E+00	1.50E-07
1197	457223.7	3767471	1.29E-06	6.09E-08	0.00E+00	1.35E-06	1.29E-06	6.09E-08	0.00E+00	1.35E-06	3.85E-07	1.10E-08	0.00E+00	3.96E-07	1.46E-07	3.54E-09	0.00E+00	1.50E-07
1198	457232.6	3767467	1.28E-06	6.06E-08	0.00E+00	1.34E-06	1.28E-06	6.06E-08	0.00E+00	1.34E-06	3.83E-07	1.09E-08	0.00E+00	3.94E-07	1.45E-07	3.52E-09	0.00E+00	1.49E-07
1199	457241.5	3767464	1.27E-06	6.03E-08	0.00E+00	1.33E-06	1.27E-06	6.03E-08	0.00E+00	1.33E-06	3.81E-07	1.08E-08	0.00E+00	3.92E-07	1.44E-07	3.50E-09	0.00E+00	1.48E-07
1200	457250.3	3767460	1.26E-06	5.99E-08	0.00E+00	1.32E-06	1.26E-06	5.99E-08	0.00E+00	1.32E-06	3.79E-07	1.08E-08	0.00E+00	3.89E-07	1.43E-07	3.47E-09	0.00E+00	1.47E-07
1201	456902.4	3767565	9.31E-07	4.41E-08	0.00E+00	9.75E-07	9.31E-07	4.41E-08	0.00E+00	9.75E-07	2.79E-07	7.93E-09	0.00E+00	2.87E-07	1.06E-07	2.56E-09	0.00E+00	1.08E-07
1202	456911.1	3767562	9.46E-07	4.48E-08	0.00E+00	9.91E-07	9.46E-07	4.48E-08	0.00E+00	9.91E-07	2.83E-07	8.06E-09	0.00E+00	2.91E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
1203	456919.8	3767558	9.61E-07	4.55E-08	0.00E+00	1.01E-06	9.61E-07	4.55E-08	0.00E+00	1.01E-06	2.88E-07	8.18E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
1204	456928.6	3767554	9.76E-07	4.62E-08	0.00E+00	1.02E-06	9.76E-07	4.62E-08	0.00E+00	1.02E-06	2.92E-07	8.31E-09	0.00E+00	3.01E-07	1.11E-07	2.68E-09	0.00E+00	1.13E-07
1205	456937.3	3767551	9.9E-07	4.69E-08	0.00E+00	1.04E-06	9.90E-07	4.69E-08	0.00E+00	1.04E-06	2.97E-07	8.43E-09	0.00E+00	3.05E-07	1.12E-07	2.72E-09	0.00E+00	1.15E-07
1206	456946	3767547	1E-06	4.76E-08	0.00E+00	1.05E-06	1.00E-06	4.76E-08	0.00E+00	1.05E-06	3.01E-07	8.55E-09	0.00E+00	3.09E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
1207	456954.7	3767543	1.02E-06	4.82E-08	0.00E+00	1.07E-06	1.02E-06	4.82E-08	0.00E+00	1.07E-06	3.05E-07	8.67E-09	0.00E+00	3.14E-07	1.16E-07	2.80E-09	0.00E+00	1.18E-07

1208	456963.5	3767540	1.03E-06	4.89E-08	0.00E+00	1.08E-06	1.03E-06	4.89E-08	0.00E+00	1.08E-06	3.09E-07	8.79E-09	0.00E+00	3.18E-07	1.17E-07	2.84E-09	0.00E+00	1.20E-07
1209	456972.2	3767536	1.05E-06	4.95E-08	0.00E+00	1.09E-06	1.05E-06	4.95E-08	0.00E+00	1.09E-06	3.13E-07	8.90E-09	0.00E+00	3.22E-07	1.19E-07	2.87E-09	0.00E+00	1.21E-07
1210	456980.9	3767532	1.06E-06	5.01E-08	0.00E+00	1.11E-06	1.06E-06	5.01E-08	0.00E+00	1.11E-06	3.17E-07	9.01E-09	0.00E+00	3.26E-07	1.20E-07	2.91E-09	0.00E+00	1.23E-07
1211	456989.6	3767529	1.07E-06	5.07E-08	0.00E+00	1.12E-06	1.07E-06	5.07E-08	0.00E+00	1.12E-06	3.21E-07	9.12E-09	0.00E+00	3.30E-07	1.22E-07	2.94E-09	0.00E+00	1.24E-07
1212	456998.4	3767525	1.08E-06	5.13E-08	0.00E+00	1.13E-06	1.08E-06	5.13E-08	0.00E+00	1.13E-06	3.25E-07	9.22E-09	0.00E+00	3.34E-07	1.23E-07	2.98E-09	0.00E+00	1.26E-07
1213	457007.1	3767521	1.1E-06	5.19E-08	0.00E+00	1.15E-06	1.10E-06	5.19E-08	0.00E+00	1.15E-06	3.28E-07	9.33E-09	0.00E+00	3.38E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
1214	457015.8	3767518	1.11E-06	5.24E-08	0.00E+00	1.16E-06	1.11E-06	5.24E-08	0.00E+00	1.16E-06	3.32E-07	9.43E-09	0.00E+00	3.41E-07	1.26E-07	3.04E-09	0.00E+00	1.29E-07
1215	457024.5	3767514	1.12E-06	5.3E-08	0.00E+00	1.17E-06	1.12E-06	5.30E-08	0.00E+00	1.17E-06	3.35E-07	9.53E-09	0.00E+00	3.45E-07	1.27E-07	3.08E-09	0.00E+00	1.30E-07
1216	457033.3	3767510	1.13E-06	5.35E-08	0.00E+00	1.18E-06	1.13E-06	5.35E-08	0.00E+00	1.18E-06	3.38E-07	9.62E-09	0.00E+00	3.48E-07	1.28E-07	3.11E-09	0.00E+00	1.31E-07
1217	457042	3767507	1.14E-06	5.4E-08	0.00E+00	1.19E-06	1.14E-06	5.40E-08	0.00E+00	1.19E-06	3.42E-07	9.71E-09	0.00E+00	3.51E-07	1.29E-07	3.13E-09	0.00E+00	1.33E-07
1218	457050.7	3767503	1.15E-06	5.45E-08	0.00E+00	1.20E-06	1.15E-06	5.45E-08	0.00E+00	1.20E-06	3.45E-07	9.79E-09	0.00E+00	3.54E-07	1.31E-07	3.16E-09	0.00E+00	1.34E-07
1219	457059.4	3767500	1.16E-06	5.49E-08	0.00E+00	1.21E-06	1.16E-06	5.49E-08	0.00E+00	1.21E-06	3.47E-07	9.87E-09	0.00E+00	3.57E-07	1.32E-07	3.19E-09	0.00E+00	1.35E-07
1220	457068.1	3767496	1.17E-06	5.53E-08	0.00E+00	1.22E-06	1.17E-06	5.53E-08	0.00E+00	1.22E-06	3.50E-07	9.95E-09	0.00E+00	3.60E-07	1.33E-07	3.21E-09	0.00E+00	1.36E-07
1221	457076.9	3767492	1.18E-06	5.57E-08	0.00E+00	1.23E-06	1.18E-06	5.57E-08	0.00E+00	1.23E-06	3.52E-07	1.00E-08	0.00E+00	3.62E-07	1.33E-07	3.23E-09	0.00E+00	1.37E-07
1222	457085.6	3767489	1.18E-06	5.6E-08	0.00E+00	1.24E-06	1.18E-06	5.60E-08	0.00E+00	1.24E-06	3.55E-07	1.01E-08	0.00E+00	3.65E-07	1.34E-07	3.25E-09	0.00E+00	1.38E-07
1223	457094.3	3767485	1.19E-06	5.63E-08	0.00E+00	1.25E-06	1.19E-06	5.63E-08	0.00E+00	1.25E-06	3.56E-07	1.01E-08	0.00E+00	3.66E-07	1.35E-07	3.27E-09	0.00E+00	1.38E-07
1224	457103	3767481	1.2E-06	5.66E-08	0.00E+00	1.25E-06	1.20E-06	5.66E-08	0.00E+00	1.25E-06	3.58E-07	1.02E-08	0.00E+00	3.68E-07	1.36E-07	3.28E-09	0.00E+00	1.39E-07
1225	457111.8	3767478	1.2E-06	5.68E-08	0.00E+00	1.26E-06	1.20E-06	5.68E-08	0.00E+00	1.26E-06	3.59E-07	1.02E-08	0.00E+00	3.70E-07	1.36E-07	3.30E-09	0.00E+00	1.39E-07
1226	457120.5	3767474	1.2E-06	5.7E-08	0.00E+00	1.26E-06	1.20E-06	5.70E-08	0.00E+00	1.26E-06	3.60E-07	1.02E-08	0.00E+00	3.71E-07	1.37E-07	3.31E-09	0.00E+00	1.40E-07
1227	457129.2	3767470	1.21E-06	5.71E-08	0.00E+00	1.26E-06	1.21E-06	5.71E-08	0.00E+00	1.26E-06	3.61E-07	1.03E-08	0.00E+00	3.71E-07	1.37E-07	3.31E-09	0.00E+00	1.40E-07
1228	457137.9	3767467	1.21E-06	5.72E-08	0.00E+00	1.26E-06	1.21E-06	5.72E-08	0.00E+00	1.26E-06	3.62E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
1229	457146.7	3767463	1.21E-06	5.72E-08	0.00E+00	1.27E-06	1.21E-06	5.72E-08	0.00E+00	1.27E-06	3.62E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
1230	457155.4	3767459	1.21E-06	5.72E-08	0.00E+00	1.27E-06	1.21E-06	5.72E-08	0.00E+00	1.27E-06	3.62E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
1231	457164.1	3767456	1.21E-06	5.72E-08	0.00E+00	1.27E-06	1.21E-06	5.72E-08	0.00E+00	1.27E-06	3.62E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
1232	457172.8	3767452	1.21E-06	5.71E-08	0.00E+00	1.26E-06	1.21E-06	5.71E-08	0.00E+00	1.26E-06	3.61E-07	1.03E-08	0.00E+00	3.72E-07	1.37E-07	3.32E-09	0.00E+00	1.40E-07
1233	457181.6	3767449	1.2E-06	5.7E-08	0.00E+00	1.26E-06	1.20E-06	5.70E-08	0.00E+00	1.26E-06	3.61E-07	1.02E-08	0.00E+00	3.71E-07	1.37E-07	3.31E-09	0.00E+00	1.40E-07
1234	457190.3	3767445	1.2E-06	5.69E-08	0.00E+00	1.26E-06	1.20E-06	5.69E-08	0.00E+00	1.26E-06	3.60E-07	1.02E-08	0.00E+00	3.70E-07	1.36E-07	3.30E-09	0.00E+00	1.40E-07
1235	457199	3767441	1.2E-06	5.67E-08	0.00E+00	1.25E-06	1.20E-06	5.67E-08	0.00E+00	1.25E-06	3.59E-07	1.02E-08	0.00E+00	3.69E-07	1.36E-07	3.29E-09	0.00E+00	1.39E-07
1236	456835.5	3767560	8.05E-07	3.81E-08	0.00E+00	8.43E-07	8.05E-07	3.81E-08	0.00E+00	8.43E-07	2.41E-07	6.85E-09	0.00E+00	2.48E-07	9.13E-08	2.21E-09	0.00E+00	9.35E-08
1237	456847.9	3767548	8.21E-07	3.89E-08	0.00E+00	8.60E-07	8.21E-07	3.89E-08	0.00E+00	8.60E-07	2.46E-07	6.99E-09	0.00E+00	2.53E-07	9.32E-08	2.26E-09	0.00E+00	9.54E-08
1238	456856.6	3767544	8.35E-07	3.95E-08	0.00E+00	8.74E-07	8.35E-07	3.95E-08	0.00E+00	8.74E-07	2.50E-07	7.11E-09	0.00E+00	2.57E-07	9.47E-08	2.29E-09	0.00E+00	9.70E-08
1239	456865.4	3767541	8.48E-07	4.02E-08	0.00E+00	8.88E-07	8.48E-07	4.02E-08	0.00E+00	8.88E-07	2.54E-07	7.22E-09	0.00E+00	2.61E-07	9.62E-08	2.33E-09	0.00E+00	9.86E-08
1240	456874.1	3767537	8.62E-07	4.08E-08	0.00E+00	9.02E-07	8.62E-07	4.08E-08	0.00E+00	9.02E-07	2.58E-07	7.34E-09	0.00E+00	2.65E-07	9.78E-08	2.37E-09	0.00E+00	1.00E-07
1241	456882.9	3767533	8.75E-07	4.14E-08	0.00E+00	9.16E-07	8.75E-07	4.14E-08	0.00E+00	9.16E-07	2.62E-07	7.45E-09	0.00E+00	2.69E-07	9.92E-08	2.40E-09	0.00E+00	1.02E-07
1242	456891.7	3767530	8.88E-07	4.2E-08	0.00E+00	9.30E-07	8.88E-07	4.20E-08	0.00E+00	9.30E-07	2.66E-07	7.56E-09	0.00E+00	2.74E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
1243	456900.4	3767526	9.01E-07	4.27E-08	0.00E+00	9.44E-07	9.01E-07	4.27E-08	0.00E+00	9.44E-07	2.70E-07	7.67E-09	0.00E+00	2.78E-07	1.02E-07	2.48E-09	0.00E+00	1.05E-07
1244	456909.2	3767522	9.14E-07	4.33E-08	0.00E+00	9.57E-07	9.14E-07	4.33E-08	0.00E+00	9.57E-07	2.74E-07	7.78E-09	0.00E+00	2.82E-07	1.04E-07	2.51E-09	0.00E+00	1.06E-07
1245	456918	3767519	9.27E-07	4.39E-08	0.00E+00	9.71E-07	9.27E-07	4.39E-08	0.00E+00	9.71E-07	2.78E-07	7.89E-09	0.00E+00	2.86E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
1246	456926.7	3767515	9.4E-07	4.45E-08	0.00E+00	9.84E-07	9.40E-07	4.45E-08	0.00E+00	9.84E-07	2.81E-07	8.00E-09	0.00E+00	2.89E-07	1.07E-07	2.58E-09	0.00E+00	1.09E-07
1247	456935.5	3767511	9.52E-07	4.51E-08	0.00E+00	9.97E-07	9.52E-07	4.51E-08	0.00E+00	9.97E-07	2.85E-07	8.10E-09	0.00E+00	2.93E-07	1.08E-07	2.62E-09	0.00E+00	1.11E-07
1248	456944.2	3767508	9.64E-07	4.56E-08	0.00E+00	1.01E-06	9.64E-07	4.56E-08	0.00E+00	1.01E-06	2.89E-07	8.21E-09	0.00E+00	2.97E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
1249	456953	3767504	9.76E-07	4.62E-08	0.00E+00	1.02E-06	9.76E-07	4.62E-08	0.00E+00	1.02E-06	2.92E-07	8.31E-09	0.00E+00	3.01E-07	1.11E-07	2.68E-09	0.00E+00	1.13E-07
1250	456961.8	3767500	9.87E-07	4.68E-08	0.00E+00	1.03E-06	9.87E-07	4.68E-08	0.00E+00	1.03E-06	2.96E-07	8.41E-09	0.00E+00	3.04E-07	1.12E-07	2.71E-09	0.00E+00	1.15E-07
1251	456970.5	3767497	9.99E-07	4.73E-08	0.00E+00	1.05E-06	9.99E-07	4.73E-08	0.00E+00	1.05E-06	2.99E-07	8.50E-09	0.00E+00	3.08E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
1252	456979.3	3767493	1.01E-06	4.78E-08	0.00E+00	1.06E-06	1.01E-06	4.78E-08	0.00E+00	1.06E-06	3.02E-07	8.60E-09	0.00E+00	3.11E-07	1.15E-07	2.78E-09	0.00E+00	1.17E-07
1253	456988.1	3767489	1.02E-06	4.83E-08	0.00E+00	1.07E-06	1.02E-06	4.83E-08	0.00E+00	1.07E-06	3.06E-07	8.69E-09	0.00E+00	3.14E-07	1.16E-07	2.81E-09	0.00E+00	1.19E-07
1254	456996.8	3767486	1.03E-06	4.88E-08	0.00E+00	1.08E-06	1.03E-06	4.88E-08	0.00E+00	1.08E-06	3.09E-07	8.78E-09	0.00E+00	3.18E-07	1.17E-07	2.83E-09	0.00E+00	1.20E-07
1255	457005.6	3767482	1.04E-06	4.93E-08	0.00E+00	1.09E-06	1.04E-06	4.93E-08	0.00E+00	1.09E-06	3.12E-07	8.87E-09	0.00E+00	3.21E-07	1.18E-07	2.86E-09	0.00E+00	1.21E-07
1256	457014.4	3767478	1.05E-06	4.98E-08	0.00E+00	1.10E-06	1.05E-06	4.98E-08	0.00E+00	1.10E-06	3.15E-07	8.95E-09	0.00E+00	3.24E-07	1.19E-07	2.89E-09	0.00E+00	1.22E-07
1257	457023.1	3767475	1.06E-06	5.02E-08	0.00E+00	1.11E-06	1.06E-06	5.02E-08	0.00E+00	1.11E-06	3.18E-07	9.03E-09	0.00E+00	3.27E-07	1.20E-07	2.91E-09	0.00E+00	1.23E-07
1258	457031.9	3767471	1.07E-06	5.06E-08	0.00E+00	1.12E-06	1.07E-06	5.06E-08	0.00E+00	1.12E-06	3.20E-07	9.10E-09	0.00E+00	3.29E-07	1.21E-07	2.94E-09	0.00E+00	1.24E-07
1259	457040.6	3767467	1.08E-06	5.1E-08	0.00E+00	1.13E-06	1.08E-06	5.10E-08	0.00E+00	1.13E-06	3.23E-07	9.17E-09	0.00E+00	3.32E-07	1.22E-07	2.96E-09	0.00E+00	1.25E-07
1260	457049.4	3767464	1.09E-06	5.14E-08	0.00E+00	1.14E-06	1.09E-06	5.14E-08	0.00E+00	1.14E-06	3.25E-07	9.24E-09	0.00E+00	3.34E-07	1.23E-07	2.98E-09	0.00E+00	1.26E-07
1261	457058.2	3767460	1.09E-06	5.17E-08	0.00E+00	1.14E-06	1.09E-06	5.17E-08	0.00E+00	1.14E-06	3.27E-07	9.30E-09	0.00E+00	3.36E-07	1.24E-07	3.00E-09	0.00E+00	1.27E-07
1262	457066.9	3767456	1.1E-06	5.2E-08	0.00E+00	1.15E-06	1.10E-06	5.20E-08	0.00E+00	1.15E-06	3.29E-07	9.35E-09	0.00E+00	3.38E-07	1.25E-07	3.02E-09	0.00E+00	1.28E-07
1263	457075.7	3767453	1.1E-06	5.23E-08	0.00E+00	1.16E-06	1.10E-06	5.23E-08	0.00E+00	1.16E-06	3.31E-07	9.40E-09	0.00E+00	3.40E-07	1.25E-07	3.03E-09	0.00E+00	1.28E-07
1264	457084.5	3767449	1.11E-06	5.25E-08	0.00E+00	1.16E-06	1.11E-06	5.25E-08	0.00E+00	1.16E-06	3.32E-07	9.44E-09	0.00E+00	3.41E-07	1.26E-07	3.05E-09	0.00E+00	1.29E-07
1265	457093.2	3767445	1.11E-06	5.27E-08	0.00E+00	1.17E-06	1.11E-06	5.27E-08	0.00E+00	1.17E-06	3.33E-07	9.47E-09	0.00E+00	3.43E-07	1.26E-07	3.06E-09	0.00E+00	1.29E-07
1266	457102	3767442	1.12E-06	5.28E-08	0.00E+00	1.17E-06	1.12E-06	5.28E-08	0.00E+00	1.17E-06	3.34E-07	9.50E-09	0.00E+00	3.44E-07	1.27E-07	3.07E-09	0.00E+00	1.30E-07
1267	456796.3	3767559	7.4E-07	3.5E-08	0.00E+00	7.75E-07	7.40E-07	3.50E-08	0.00E+00	7.75E-07	2.22E-07	6.30E-09	0.00E+00	2.28E-07	8.39E-08	2.03E-09	0.00E+00	8.60E-08
1268	456799.9	3767550	7.43E-07	3.52E-08	0.00E+00	7.78E-07	7.43E-07	3.52E-08	0.00E+00	7.78E-07	2.22E-07	6.32E-09	0.00E+00	2.29E-07	8.43E-08	2.04E-09	0.00E+00	8.63E-08
1269	456803.5	3767541	7.45E-07	3.53E-08	0.00E+00	7.81E-07	7.45E-07	3.53E-08	0.00E+00	7.81E-07	2.23E-07	6.35E-09	0.00E+00	2.30E-07	8.46E-08	2.05E-09	0.00E+00	8.66E-08
1270	456807.1	3767532	7.48E-07	3.54E-08	0.00E+00	7.84E-07	7.48E-07	3.54E-08	0.00E+00	7.84E-07	2.24E-07	6.37E-09	0.00E+00	2.30E-07	8.49E-08	2.06E-09	0.00E+00	8.69E-08
1271	456819.5	3767520	7.63E-07	3.61E-08	0.00E+00	7.99E-07	7.63E-07	3.61E-08	0.00E+00	7.99E-07	2.28E-07	6.49E-09	0.00E+00	2.35E-07	8.65E-08	2.10E-09	0.00E+00	8.86E-08
1272	456828.3	3767516	7.75E-07	3.67E-08	0.00E+00	8.12E-07	7.75E-07	3.67E-08	0.00E+00	8.12E-07	2.32E-07	6.60E-09	0.00E+00	2.39E-07	8.79E-08	2.13E-09	0.00E+00	9.00E-08
1273	456837.1	3767512	7.87E-07	3.73E-08	0.00E+00	8.24E-07	7.87E-07	3.73E-08	0.00E+00	8.24E-07	2.36E-07	6.70E-09	0.00E+00	2.42E-07	8.93E-08	2.16E-09	0.00E+00	9.14E-08
1274	456845.9	3767509	7.99E-07	3.78E-08	0.00E+00	8.37E-07	7.99E-07	3.78E-08	0.00E+00	8.37E-07	2.39E-07	6.80E-09	0.00E+00	2.46E-07	9.06E-08	2.20E-09	0.00E+00	9.28E-08
1275	456854.7	3767505	8.11E-07	3.84E-08	0.00E+00	8.49E-07	8.11E-07	3.84E-08	0.00E+00	8.49E-07	2.43E-07	6.90E-09	0.00E+00	2.50E-07	9.20E-08	2.23E-09	0.00E+00	9.42E-08
1276	456863.5	3767501	8.22E-07	3.89E-08	0.00E+00	8.61E-07	8.22E-07	3.89E-08	0.00E+00	8.61E-07	2.46E-07	7.00E-09	0.00E+00	2.53E-07	9.33E-08	2.26E-09	0.00E+00	9.56E-08
1277	456872.3	3767498	8.34E-07	3.95E-08	0.00E+00	8.74E-07	8.34E-07	3.95E-08	0.00E+00	8.74E-07	2.50E-07	7.10E-09	0.00E+00	2.57E-07	9.46E-08	2.29E-09	0.00E+00	9.69E-08
1278	456881.1	3767494	8.46E-07	4.01E-08	0.00E+00	8.86E-07	8.46E-07	4.01E-08	0.00E+00	8.86E-07	2.53E-07	7.20E-09	0.00E+00	2.61E-07	9.60E-08	2.32E-09	0.00E+00	9.83E-08
1279	456889.9	3767490	8.58E-07	4.06E-08	0.00E+00	8.98E-07	8.58E-07	4.06E-08	0.00E+00	8.98E-07	2.57E-07	7.30E-09	0.00E+00	2.64E-07	9.73E-08	2.36E-09	0.00E+00	9.97E-08
1280	456898.7	3767487	8.69E-07	4.11E-08	0.00E+00	9.10E-07	8.69E-07	4.11E-08	0.00E+00	9.10E-07	2.60E-07	7.40E-09	0.00E+00	2.68E-07	9.86E-08	2.39E-09	0.00E+00	1.01E-07
1281	456907.5	3767483	8.8E-07	4.17E-08	0.00E+00	9.22E-07	8.80E-07	4.17E-08	0.00E+00	9.22E-07	2.64E-07	7.49E-09	0.00E+00	2.71E-07	9.99E-08	2.42E-09	0.00E+00	1.02E-07
1282	456916.3	3767479	8.91E-07	4.22E-08	0.00E+00	9.33E-07	8.91E-07	4.22E-08	0.00E+00	9.33E-07	2.67E-07	7.59E-09	0.00E+00	2.74E-07	1.01E-07	2.45E-09	0.00E+00	1.04E-07
1283	456925.1	3767476	9.02E-07	4.27E-08	0.00E+00	9.44E-07	9.02E-07	4.27E-08	0.00E+00	9.44E-07	2.70E-07	7.68E-09	0.00E+00	2.78E-07	1.02E-07	2.48E-09	0.00E+00	1.05E-07
1284	456933.9	3767472	9.12E-07	4.32E-08	0.00E+00	9.55E-07	9.12E-07	4.32E-08	0.00E+00	9.55E-07	2.73E-07	7.77E-09	0.00E+00	2.81E-07	1.03E-07	2.51E-09	0.00E+00	1.06E-07
1285	456942.7	3767468	9.23E-07	4.37E-08	0.00E+00	9.66E-07	9.23E-07	4.37E-08	0.00E+00	9.66E-07	2.76E-07	7.85E-09	0.00E+00	2.84E-07	1.05E-07	2.54E-09	0.00E+00	1.07E-07
1286	456951.5	3767465	9.33E-07	4.42E-08	0.00E+00	9.77E-07	9.33E-07	4.42E-08	0.00E+00	9.77E-07	2.79E-07	7.94E-09	0.00E+00	2.87E-07	1.06E-07	2.56E-09	0.00E+00	1.08E-07
1287	456960.3	3767461	9.43E-07	4.47E-08	0.00E+00	9.88E-07	9.43E-07	4.47E-08	0.00E+00	9.88E-07	2.82E-07	8.03E-09	0.00E+00	2.90E-07	1.07E-07	2.59E-09	0.00E+00	1.10E-07
1288	456969.1	3767457	9.53E-07	4.51E-08	0.00E+00	9.98E-07	9.53E-07	4.51E-08	0.00E+00	9.98E-07	2.85E-07	8.11E-09	0.00E+00	2.93E-07	1.08E-07	2.62E-09	0.00E+00	1.11E-07
1289	456977.9	3767454	9.62E-07	4.56E-08	0.00E+00	1.01E-06	9.62E-07	4.56E-08	0.00E+00	1.01E-06	2.88E-07	8.19E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
1290	456986.7	3767450	9.71E-07	4.6E-08	0.00E+00	1.02E-06	9.71E-07	4.60E-08	0.00E+00	1.02E-06	2.91E-07	8.27E-09	0.00E+00	2.99E-07	1.10E-07	2.67E-09	0.00E+00	1.13E-07
1291	456995.5	3767446	9.8E-07	4.64E-08	0.00E+00	1.03E-06	9.80E-07	4.64E-08	0.00E+00	1.03E-06	2.93E-07	8.34E-09	0.00E+00	3.02E-07	1.11E-07	2.69E-09	0.00E+00	1.14E-07
1292	457004.2	3767443	9.88E-07	4.68E-08	0.00E+00	1.03E-06	9.88E-07	4.68E-08	0.00E+00	1.03E-06	2.96E-07	8.41E-09	0.00E+00	3.04E-07	1.12E-07	2.72E-09	0.00E+00	1.15E-07
1293	457013	3767439	9.96E-07	4.72E-08	0.00E+00	1.04E-06	9.96E-07	4.72E-08	0.00E+00	1.04E-06	2.98E-07	8.48E-09	0.00E+00	3.07E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
1294	457268.2	3767332	9.59E-07	4.54E-08	0.00E+00	1.00E-06	9.59E-07	4.54E-08	0.00E+00	1.00E-06	2.87E-07	8.17E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.11E-07
1295	457277	3767329	9.49E-07	4.5E-08	0.00E+00	9.94E-07	9.49E-07	4.50E-08	0.00E+00	9.94E-07	2.84E-07	8.08E-09	0.00E+00	2.92E-07	1.08E-07	2.61E-09	0.00E+00	1.10E-07
1296	456753.4	3767566	6.76E-07	3.2E-08	0.00E+00	7.08E-07	6.76E-07	3.20E-08	0.00E+00	7.08E-07	2.02E-07	5.75E-09	0.00E+00	2.08E-07	7.67E-08	1.86E-09	0.00E+00	7.85E-08
1297	456757	3767557	6.8E-07	3.22E-08	0.00E+00	7.12E-07	6.80E-07	3.22E-08	0.00E+00	7.12E-07	2.04E-07	5.79E-09	0.00E+00	2.09E-07	7.71E-08	1.87E-09	0.00E+00	7.90E-08
1298	456760.6	3767548	6.83E-07	3.24E-08	0.00E+00	7.16E-07	6.83E-07	3.24E-08	0.00E+00	7.16E-07	2.05E-07	5.82E-09	0.00E+00	2.11E-07	7.75E-08	1.88E-09	0.00E+00	7.94E-08
1299	456764.2	3767540	6.87E-07	3.25E-08	0.00E+00	7.19E-07	6.87E-07	3.25E-08	0.00E+00	7.19E-07	2.06E-07	5.85E-09	0.00E+00	2.12E-07	7.79E-08	1.89E-09	0.00E+00	7.98E-08
1300	456767.8	3767531	6.9E-07	3.27E-08	0.00E+00	7.23E-07	6.90E-07	3.27E-08	0.00E+00	7.23E-07	2.07E-07	5.88E-09	0.00E+00	2.13E-07	7.83E-08	1.90E-09	0.00E+00	8.02E-08
1301	456771.4	3767522	6.93E-07	3.28E-08	0.00E+00	7.26E-07	6.93E-07	3.28E-08	0.00E+00	7.26E-07	2.08E-07	5.90E-09	0.00E+00	2.14E-07	7.86E-08	1.91E-09	0.00E+00	8.06E-08
1302	456775	3767513	6.96E-07	3.3E-08	0.00E+00	7.29E-07	6.96E-07	3.30E-08	0.00E+00	7.29E-07	2.08E-07	5.92E-09	0.00E+00	2.14E-07	7.90E-08	1.91E-09	0.00E+00	8.09E-08
1303	456778.7	3767504	6.98E-07	3.31E-08	0.00E+00	7.32E-07	6.98E-07	3.31E-08	0.00E+00	7.32E-07	2.09E-07	5.95E-09	0.00E+00	2.15E-07	7.92E-08	1.92E-09	0.00E+00	8.12E-08
1304	456791.1	3767492	7.12E-07	3.37E-08	0.00E+00	7.45E-07	7.12E-07	3.37E-08	0.00E+00	7.45E-07	2.13E-07	6.06E-09	0.00E+00	2.19E-07	8.07E-08	1.96E-09	0.00E+00	8.27E-08
1305	456799.9	3767488	7.22E-07	3.42E-08	0.00E+00	7.57E-07	7.22E-07	3.42E-08	0.00E+00	7.57E-07	2.16E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.39E-08
1306	456808.8	3767484	7.33E-07	3.47E-08	0.00E+00	7.68E-07	7.33E-07	3.47E-08	0.00E+00	7.68E-07	2.20E-07	6.24E-09	0.00E+00	2.26E-07	8.32E-08	2.02E-09	0.00E+00	8.52E-08
1307	456817.6	3767481	7.44E-07	3.52E-08	0.00E+00	7.79E-07	7.44E-07	3.52E-08	0.00E+00	7.79E-07	2.23E-07	6.33E-09	0.00E+00	2.29E-07	8.44E-08	2.04E-09	0.00E+00	8.65E-08
1308	456826.4	3767477	7.55E-07	3.57E-08	0.00E+00	7.91E-07	7.55E-07	3.57E-08	0.00E+00	7.91E-07	2.26E-07	6.43E-09	0.00E+00	2.32E-07	8.56E-08	2.07E-09	0.00E+00	8.77E-08
1309	456835.2	3767473	7.65E-07	3.62E-08	0.00E+00	8.02E-07	7.65E-07	3.62E-08	0.00E+00	8.02E-07	2.29E-07	6.52E-09	0.00E+00	2.36E-07	8.68E-08	2.10E-09	0.00E+00	8.89E-08
1310	456844.1	3767469	7.76E-07	3.67E-08	0.00E+00	8.13E-07	7.76E-07	3.67E-08	0.00E+00	8.13E-07	2.32E-07	6.61E-09	0.00E+00	2.39E-07	8.80E-08	2.13E-09	0.00E+00	9.02E-08
1311	456852.9	3767466	7.87E-07	3.72E-08	0.00E+00	8.24E-07	7.87E-07	3.72E-08	0.00E+00	8.24E-07	2.36E-07	6.70E-09	0.00E+00	2.42E-07	8.92E-08	2.16E-09	0.00E+00	9.14E-08
1312	456861.7	3767462	7.97E-07	3.77E-08	0.00E+00	8.35E-07	7.97E-07	3.77E-08	0.00E+00	8.35E-07	2.39E-07	6.79E-09	0.00E+00	2.45E-07	9.04E-08	2.19E-09	0.00E+00	9.26E-08
1313	456870.6	3767458	8.07E-07	3.82E-08	0.00E+00	8.46E-07	8.07E-07	3.82E-08	0.00E+00	8.46E-07	2.42E-07	6.87E-09	0.00E+00	2.49E-07	9.16E-08	2.22E-09	0.00E+00	9.38E-08
1314	456879.4	3767455	8.17E-07	3.87E-08	0.00E+00	8.56E-07	8.17E-07	3.87E-08	0.00E+00	8.56E-07	2.45E-07	6.96E-09	0.00E+00	2.52E-07	9.27E-08	2.25E-09	0.00E+00	9.50E-08
1315	456888.2	3767451	8.27E-07	3.92E-08	0.00E+00	8.67E-07	8.27E-07	3.92E-08	0.00E+00	8.67E-07	2.48E-07	7.04E-09	0.00E+00	2.55E-07	9.39E-08	2.27E-09	0.00E+00	9.61E-08
1316	456897.1	3767447	8.37E-07	3.96E-08	0.00E+00	8.77E-07	8.37E-07	3.96E-08	0.00E+00	8.77E-07	2.51E-07	7.13E-09	0.00E+00	2.58E-07	9.50E-08	2.30E-09	0.00E+00	9.73E-08
1317	456905.9	3767444	8.47E-07	4.01E-08	0.00E+00	8.87E-07	8.47E-07	4.01E-08	0.00E+00	8.87E-07	2.54E-07	7.21E-09	0.00E+00	2.61E-07	9.61E-08	2.33E-09	0.00E+00	9.84E-08

1318	456914.7	3767440	8.56E-07	4.05E-08	0.00E+00	8.97E-07	8.56E-07	4.05E-08	0.00E+00	8.97E-07	2.56E-07	7.29E-09	0.00E+00	2.64E-07	9.71E-08	2.35E-09	0.00E+00	9.95E-08
1319	457170.8	3767333	9.6E-07	4.55E-08	0.00E+00	1.01E-06	9.60E-07	4.55E-08	0.00E+00	1.01E-06	2.88E-07	8.18E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
1320	457179.7	3767329	9.56E-07	4.53E-08	0.00E+00	1.00E-06	9.56E-07	4.53E-08	0.00E+00	1.00E-06	2.86E-07	8.14E-09	0.00E+00	2.95E-07	1.08E-07	2.63E-09	0.00E+00	1.11E-07
1321	457188.5	3767326	9.51E-07	4.5E-08	0.00E+00	9.96E-07	9.51E-07	4.50E-08	0.00E+00	9.96E-07	2.85E-07	8.10E-09	0.00E+00	2.93E-07	1.08E-07	2.61E-09	0.00E+00	1.11E-07
1322	457197.3	3767322	9.46E-07	4.48E-08	0.00E+00	9.90E-07	9.46E-07	4.48E-08	0.00E+00	9.90E-07	2.83E-07	8.05E-09	0.00E+00	2.91E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
1323	457206.1	3767318	9.4E-07	4.45E-08	0.00E+00	9.84E-07	9.40E-07	4.45E-08	0.00E+00	9.84E-07	2.81E-07	8.00E-09	0.00E+00	2.89E-07	1.07E-07	2.58E-09	0.00E+00	1.09E-07
1324	457215	3767314	9.33E-07	4.42E-08	0.00E+00	9.78E-07	9.33E-07	4.42E-08	0.00E+00	9.78E-07	2.80E-07	7.95E-09	0.00E+00	2.88E-07	1.06E-07	2.57E-09	0.00E+00	1.08E-07
1325	457223.8	3767311	9.27E-07	4.39E-08	0.00E+00	9.70E-07	9.27E-07	4.39E-08	0.00E+00	9.70E-07	2.78E-07	7.89E-09	0.00E+00	2.85E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
1326	457232.6	3767307	9.19E-07	4.35E-08	0.00E+00	9.63E-07	9.19E-07	4.35E-08	0.00E+00	9.63E-07	2.75E-07	7.83E-09	0.00E+00	2.83E-07	1.04E-07	2.53E-09	0.00E+00	1.07E-07
1327	457241.5	3767303	9.11E-07	4.32E-08	0.00E+00	9.55E-07	9.11E-07	4.32E-08	0.00E+00	9.55E-07	2.73E-07	7.76E-09	0.00E+00	2.81E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
1328	457250.3	3767300	9.03E-07	4.28E-08	0.00E+00	9.46E-07	9.03E-07	4.28E-08	0.00E+00	9.46E-07	2.71E-07	7.69E-09	0.00E+00	2.78E-07	1.02E-07	2.48E-09	0.00E+00	1.05E-07
1329	457259.1	3767296	8.95E-07	4.24E-08	0.00E+00	9.37E-07	8.95E-07	4.24E-08	0.00E+00	9.37E-07	2.68E-07	7.62E-09	0.00E+00	2.76E-07	1.01E-07	2.46E-09	0.00E+00	1.04E-07
1330	457268	3767292	8.86E-07	4.19E-08	0.00E+00	9.28E-07	8.86E-07	4.19E-08	0.00E+00	9.28E-07	2.65E-07	7.54E-09	0.00E+00	2.73E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
1331	457276.8	3767289	8.76E-07	4.15E-08	0.00E+00	9.18E-07	8.76E-07	4.15E-08	0.00E+00	9.18E-07	2.62E-07	7.46E-09	0.00E+00	2.70E-07	9.94E-08	2.41E-09	0.00E+00	1.02E-07
1332	456714	3767565	6.22E-07	2.94E-08	0.00E+00	6.51E-07	6.22E-07	2.94E-08	0.00E+00	6.51E-07	1.86E-07	5.29E-09	0.00E+00	1.92E-07	7.06E-08	1.71E-09	0.00E+00	7.23E-08
1333	456717.6	3767556	6.26E-07	2.96E-08	0.00E+00	6.56E-07	6.26E-07	2.96E-08	0.00E+00	6.56E-07	1.88E-07	5.33E-09	0.00E+00	1.93E-07	7.10E-08	1.72E-09	0.00E+00	7.27E-08
1334	456721.3	3767547	6.3E-07	2.98E-08	0.00E+00	6.60E-07	6.30E-07	2.98E-08	0.00E+00	6.60E-07	1.89E-07	5.36E-09	0.00E+00	1.94E-07	7.15E-08	1.73E-09	0.00E+00	7.32E-08
1335	456724.9	3767538	6.34E-07	3E-08	0.00E+00	6.64E-07	6.34E-07	3.00E-08	0.00E+00	6.64E-07	1.90E-07	5.39E-09	0.00E+00	1.95E-07	7.19E-08	1.74E-09	0.00E+00	7.36E-08
1336	456728.5	3767529	6.37E-07	3.02E-08	0.00E+00	6.67E-07	6.37E-07	3.02E-08	0.00E+00	6.67E-07	1.91E-07	5.42E-09	0.00E+00	1.96E-07	7.23E-08	1.75E-09	0.00E+00	7.40E-08
1337	456732.1	3767520	6.4E-07	3.03E-08	0.00E+00	6.70E-07	6.40E-07	3.03E-08	0.00E+00	6.70E-07	1.92E-07	5.45E-09	0.00E+00	1.97E-07	7.26E-08	1.76E-09	0.00E+00	7.44E-08
1338	456735.7	3767512	6.43E-07	3.04E-08	0.00E+00	6.73E-07	6.43E-07	3.04E-08	0.00E+00	6.73E-07	1.93E-07	5.47E-09	0.00E+00	1.98E-07	7.30E-08	1.77E-09	0.00E+00	7.47E-08
1339	456739.4	3767503	6.46E-07	3.06E-08	0.00E+00	6.76E-07	6.46E-07	3.06E-08	0.00E+00	6.76E-07	1.93E-07	5.50E-09	0.00E+00	1.99E-07	7.33E-08	1.77E-09	0.00E+00	7.51E-08
1340	456743	3767494	6.49E-07	3.07E-08	0.00E+00	6.79E-07	6.49E-07	3.07E-08	0.00E+00	6.79E-07	1.94E-07	5.52E-09	0.00E+00	2.00E-07	7.36E-08	1.78E-09	0.00E+00	7.54E-08
1341	456746.6	3767485	6.51E-07	3.08E-08	0.00E+00	6.82E-07	6.51E-07	3.08E-08	0.00E+00	6.82E-07	1.95E-07	5.54E-09	0.00E+00	2.00E-07	7.38E-08	1.79E-09	0.00E+00	7.56E-08
1342	456750.2	3767476	6.53E-07	3.09E-08	0.00E+00	6.84E-07	6.53E-07	3.09E-08	0.00E+00	6.84E-07	1.96E-07	5.56E-09	0.00E+00	2.01E-07	7.41E-08	1.79E-09	0.00E+00	7.59E-08
1343	456762.7	3767463	6.65E-07	3.15E-08	0.00E+00	6.96E-07	6.65E-07	3.15E-08	0.00E+00	6.96E-07	1.99E-07	5.66E-09	0.00E+00	2.05E-07	7.54E-08	1.83E-09	0.00E+00	7.73E-08
1344	456771.6	3767460	6.75E-07	3.19E-08	0.00E+00	7.07E-07	6.75E-07	3.19E-08	0.00E+00	7.07E-07	2.02E-07	5.74E-09	0.00E+00	2.08E-07	7.66E-08	1.85E-09	0.00E+00	7.84E-08
1345	456780.4	3767456	6.85E-07	3.24E-08	0.00E+00	7.17E-07	6.85E-07	3.24E-08	0.00E+00	7.17E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
1346	456789.3	3767452	6.94E-07	3.29E-08	0.00E+00	7.27E-07	6.94E-07	3.29E-08	0.00E+00	7.27E-07	2.08E-07	5.91E-09	0.00E+00	2.14E-07	7.88E-08	1.91E-09	0.00E+00	8.07E-08
1347	456798.1	3767449	7.04E-07	3.33E-08	0.00E+00	7.37E-07	7.04E-07	3.33E-08	0.00E+00	7.37E-07	2.11E-07	5.99E-09	0.00E+00	2.17E-07	7.99E-08	1.94E-09	0.00E+00	8.18E-08
1348	456807	3767445	7.14E-07	3.38E-08	0.00E+00	7.48E-07	7.14E-07	3.38E-08	0.00E+00	7.48E-07	2.14E-07	6.08E-09	0.00E+00	2.20E-07	8.10E-08	1.96E-09	0.00E+00	8.30E-08
1349	456815.9	3767441	7.24E-07	3.43E-08	0.00E+00	7.58E-07	7.24E-07	3.43E-08	0.00E+00	7.58E-07	2.17E-07	6.16E-09	0.00E+00	2.23E-07	8.21E-08	1.99E-09	0.00E+00	8.41E-08
1350	456824.7	3767438	7.33E-07	3.47E-08	0.00E+00	7.68E-07	7.33E-07	3.47E-08	0.00E+00	7.68E-07	2.20E-07	6.24E-09	0.00E+00	2.26E-07	8.32E-08	2.02E-09	0.00E+00	8.52E-08
1351	457081.7	3767330	9.11E-07	4.31E-08	0.00E+00	9.54E-07	9.11E-07	4.31E-08	0.00E+00	9.54E-07	2.73E-07	7.76E-09	0.00E+00	2.81E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
1352	457090.5	3767326	9.11E-07	4.31E-08	0.00E+00	9.54E-07	9.11E-07	4.31E-08	0.00E+00	9.54E-07	2.73E-07	7.76E-09	0.00E+00	2.81E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
1353	457099.4	3767323	9.12E-07	4.32E-08	0.00E+00	9.55E-07	9.12E-07	4.32E-08	0.00E+00	9.55E-07	2.73E-07	7.76E-09	0.00E+00	2.81E-07	1.03E-07	2.51E-09	0.00E+00	1.06E-07
1354	457108.2	3767319	9.12E-07	4.32E-08	0.00E+00	9.55E-07	9.12E-07	4.32E-08	0.00E+00	9.55E-07	2.73E-07	7.76E-09	0.00E+00	2.81E-07	1.03E-07	2.51E-09	0.00E+00	1.06E-07
1355	457117.1	3767315	9.11E-07	4.31E-08	0.00E+00	9.54E-07	9.11E-07	4.31E-08	0.00E+00	9.54E-07	2.73E-07	7.75E-09	0.00E+00	2.81E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
1356	457126	3767312	9.09E-07	4.3E-08	0.00E+00	9.52E-07	9.09E-07	4.30E-08	0.00E+00	9.52E-07	2.72E-07	7.74E-09	0.00E+00	2.80E-07	1.03E-07	2.50E-09	0.00E+00	1.06E-07
1357	457134.8	3767308	9.07E-07	4.29E-08	0.00E+00	9.50E-07	9.07E-07	4.29E-08	0.00E+00	9.50E-07	2.72E-07	7.72E-09	0.00E+00	2.79E-07	1.03E-07	2.49E-09	0.00E+00	1.05E-07
1358	457143.7	3767304	9.04E-07	4.28E-08	0.00E+00	9.47E-07	9.04E-07	4.28E-08	0.00E+00	9.47E-07	2.71E-07	7.70E-09	0.00E+00	2.78E-07	1.03E-07	2.48E-09	0.00E+00	1.05E-07
1359	457152.5	3767301	9.01E-07	4.26E-08	0.00E+00	9.43E-07	9.01E-07	4.26E-08	0.00E+00	9.43E-07	2.70E-07	7.67E-09	0.00E+00	2.77E-07	1.02E-07	2.48E-09	0.00E+00	1.05E-07
1360	457161.4	3767297	8.97E-07	4.25E-08	0.00E+00	9.40E-07	8.97E-07	4.25E-08	0.00E+00	9.40E-07	2.69E-07	7.64E-09	0.00E+00	2.76E-07	1.02E-07	2.47E-09	0.00E+00	1.04E-07
1361	457170.3	3767293	8.93E-07	4.23E-08	0.00E+00	9.35E-07	8.93E-07	4.23E-08	0.00E+00	9.35E-07	2.67E-07	7.60E-09	0.00E+00	2.75E-07	1.01E-07	2.45E-09	0.00E+00	1.04E-07
1362	457179.1	3767289	8.88E-07	4.21E-08	0.00E+00	9.30E-07	8.88E-07	4.21E-08	0.00E+00	9.30E-07	2.66E-07	7.56E-09	0.00E+00	2.74E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
1363	457188	3767286	8.83E-07	4.18E-08	0.00E+00	9.25E-07	8.83E-07	4.18E-08	0.00E+00	9.25E-07	2.65E-07	7.52E-09	0.00E+00	2.72E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
1364	457196.8	3767282	8.78E-07	4.16E-08	0.00E+00	9.20E-07	8.78E-07	4.16E-08	0.00E+00	9.20E-07	2.63E-07	7.48E-09	0.00E+00	2.70E-07	9.96E-08	2.41E-09	0.00E+00	1.02E-07
1365	457205.7	3767278	8.72E-07	4.13E-08	0.00E+00	9.14E-07	8.72E-07	4.13E-08	0.00E+00	9.14E-07	2.61E-07	7.43E-09	0.00E+00	2.69E-07	9.90E-08	2.40E-09	0.00E+00	1.01E-07
1366	457214.6	3767275	8.66E-07	4.1E-08	0.00E+00	9.07E-07	8.66E-07	4.10E-08	0.00E+00	9.07E-07	2.59E-07	7.37E-09	0.00E+00	2.67E-07	9.83E-08	2.38E-09	0.00E+00	1.01E-07
1367	457223.4	3767271	8.59E-07	4.07E-08	0.00E+00	9.00E-07	8.59E-07	4.07E-08	0.00E+00	9.00E-07	2.57E-07	7.31E-09	0.00E+00	2.65E-07	9.75E-08	2.36E-09	0.00E+00	9.98E-08
1368	457232.3	3767267	8.52E-07	4.03E-08	0.00E+00	8.92E-07	8.52E-07	4.03E-08	0.00E+00	8.92E-07	2.55E-07	7.25E-09	0.00E+00	2.62E-07	9.67E-08	2.34E-09	0.00E+00	9.90E-08
1369	457241.1	3767264	8.45E-07	4E-08	0.00E+00	8.84E-07	8.45E-07	4.00E-08	0.00E+00	8.84E-07	2.53E-07	7.19E-09	0.00E+00	2.60E-07	9.58E-08	2.32E-09	0.00E+00	9.81E-08
1370	457250	3767260	8.37E-07	3.96E-08	0.00E+00	8.76E-07	8.37E-07	3.96E-08	0.00E+00	8.76E-07	2.51E-07	7.12E-09	0.00E+00	2.58E-07	9.49E-08	2.30E-09	0.00E+00	9.72E-08
1371	457258.9	3767256	8.28E-07	3.92E-08	0.00E+00	8.67E-07	8.28E-07	3.92E-08	0.00E+00	8.67E-07	2.48E-07	7.05E-09	0.00E+00	2.55E-07	9.40E-08	2.28E-09	0.00E+00	9.62E-08
1372	457267.7	3767252	8.2E-07	3.88E-08	0.00E+00	8.58E-07	8.20E-07	3.88E-08	0.00E+00	8.58E-07	2.45E-07	6.98E-09	0.00E+00	2.52E-07	9.30E-08	2.25E-09	0.00E+00	9.52E-08
1373	457276.6	3767249	8.11E-07	3.84E-08	0.00E+00	8.49E-07	8.11E-07	3.84E-08	0.00E+00	8.49E-07	2.43E-07	6.90E-09	0.00E+00	2.50E-07	9.20E-08	2.23E-09	0.00E+00	9.42E-08
1374	456713.9	3767325	5.7E-07	2.7E-08	0.00E+00	5.97E-07	5.70E-07	2.70E-08	0.00E+00	5.97E-07	1.71E-07	4.85E-09	0.00E+00	1.76E-07	6.47E-08	1.57E-09	0.00E+00	6.62E-08
1375	456743.9	3767325	5.97E-07	2.82E-08	0.00E+00	6.25E-07	5.97E-07	2.82E-08	0.00E+00	6.25E-07	1.79E-07	5.08E-09	0.00E+00	1.84E-07	6.77E-08	1.64E-09	0.00E+00	6.93E-08
1376	456773.9	3767325	6.24E-07	2.96E-08	0.00E+00	6.54E-07	6.24E-07	2.96E-08	0.00E+00	6.54E-07	1.87E-07	5.32E-09	0.00E+00	1.92E-07	7.08E-08	1.72E-09	0.00E+00	7.26E-08
1377	456803.9	3767325	6.53E-07	3.09E-08	0.00E+00	6.84E-07	6.53E-07	3.09E-08	0.00E+00	6.84E-07	1.96E-07	5.56E-09	0.00E+00	2.01E-07	7.41E-08	1.80E-09	0.00E+00	7.59E-08
1378	456833.9	3767325	6.83E-07	3.23E-08	0.00E+00	7.15E-07	6.83E-07	3.23E-08	0.00E+00	7.15E-07	2.05E-07	5.81E-09	0.00E+00	2.10E-07	7.75E-08	1.88E-09	0.00E+00	7.94E-08
1379	456863.9	3767325	7.13E-07	3.37E-08	0.00E+00	7.47E-07	7.13E-07	3.37E-08	0.00E+00	7.47E-07	2.13E-07	6.07E-09	0.00E+00	2.20E-07	8.09E-08	1.96E-09	0.00E+00	8.28E-08
1380	456893.9	3767325	7.42E-07	3.51E-08	0.00E+00	7.77E-07	7.42E-07	3.51E-08	0.00E+00	7.77E-07	2.22E-07	6.32E-09	0.00E+00	2.29E-07	8.42E-08	2.04E-09	0.00E+00	8.63E-08
1381	456923.9	3767325	7.72E-07	3.65E-08	0.00E+00	8.08E-07	7.72E-07	3.65E-08	0.00E+00	8.08E-07	2.31E-07	6.57E-09	0.00E+00	2.38E-07	8.75E-08	2.12E-09	0.00E+00	8.97E-08
1382	456953.9	3767325	8E-07	3.79E-08	0.00E+00	8.38E-07	8.00E-07	3.79E-08	0.00E+00	8.38E-07	2.40E-07	6.81E-09	0.00E+00	2.47E-07	9.08E-08	2.20E-09	0.00E+00	9.30E-08
1383	456983.9	3767325	8.28E-07	3.92E-08	0.00E+00	8.67E-07	8.28E-07	3.92E-08	0.00E+00	8.67E-07	2.48E-07	7.05E-09	0.00E+00	2.55E-07	9.39E-08	2.27E-09	0.00E+00	9.62E-08
1384	457013.9	3767325	8.53E-07	4.04E-08	0.00E+00	8.94E-07	8.53E-07	4.04E-08	0.00E+00	8.94E-07	2.56E-07	7.26E-09	0.00E+00	2.63E-07	9.68E-08	2.34E-09	0.00E+00	9.92E-08
1385	457043.9	3767325	8.77E-07	4.15E-08	0.00E+00	9.18E-07	8.77E-07	4.15E-08	0.00E+00	9.18E-07	2.63E-07	7.47E-09	0.00E+00	2.70E-07	9.95E-08	2.41E-09	0.00E+00	1.02E-07
1386	457073.9	3767325	8.98E-07	4.25E-08	0.00E+00	9.41E-07	8.98E-07	4.25E-08	0.00E+00	9.41E-07	2.69E-07	7.65E-09	0.00E+00	2.77E-07	1.02E-07	2.47E-09	0.00E+00	1.04E-07
1387	457103.9	3767325	9.17E-07	4.34E-08	0.00E+00	9.61E-07	9.17E-07	4.34E-08	0.00E+00	9.61E-07	2.75E-07	7.81E-09	0.00E+00	2.82E-07	1.04E-07	2.52E-09	0.00E+00	1.07E-07
1388	457133.9	3767325	9.33E-07	4.42E-08	0.00E+00	9.77E-07	9.33E-07	4.42E-08	0.00E+00	9.77E-07	2.79E-07	7.94E-09	0.00E+00	2.87E-07	1.06E-07	2.56E-09	0.00E+00	1.08E-07
1389	457163.9	3767325	9.44E-07	4.47E-08	0.00E+00	9.88E-07	9.44E-07	4.47E-08	0.00E+00	9.88E-07	2.83E-07	8.03E-09	0.00E+00	2.91E-07	1.07E-07	2.59E-09	0.00E+00	1.10E-07
1390	457193.9	3767325	9.5E-07	4.5E-08	0.00E+00	9.95E-07	9.50E-07	4.50E-08	0.00E+00	9.95E-07	2.85E-07	8.09E-09	0.00E+00	2.93E-07	1.08E-07	2.61E-09	0.00E+00	1.10E-07
1391	457223.9	3767325	9.51E-07	4.5E-08	0.00E+00	9.96E-07	9.51E-07	4.50E-08	0.00E+00	9.96E-07	2.85E-07	8.10E-09	0.00E+00	2.93E-07	1.08E-07	2.61E-09	0.00E+00	1.11E-07
1392	457253.9	3767325	9.48E-07	4.49E-08	0.00E+00	9.93E-07	9.48E-07	4.49E-08	0.00E+00	9.93E-07	2.84E-07	8.07E-09	0.00E+00	2.92E-07	1.08E-07	2.60E-09	0.00E+00	1.10E-07
1393	457283.9	3767325	9.39E-07	4.45E-08	0.00E+00	9.84E-07	9.39E-07	4.45E-08	0.00E+00	9.84E-07	2.81E-07	7.99E-09	0.00E+00	2.89E-07	1.07E-07	2.58E-09	0.00E+00	1.09E-07
1394	457313.9	3767325	9.26E-07	4.38E-08	0.00E+00	9.70E-07	9.26E-07	4.38E-08	0.00E+00	9.70E-07	2.77E-07	7.88E-09	0.00E+00	2.85E-07	1.05E-07	2.54E-09	0.00E+00	1.08E-07
1395	457343.9	3767325	9.08E-07	4.3E-08	0.00E+00	9.51E-07	9.08E-07	4.30E-08	0.00E+00	9.51E-07	2.72E-07	7.73E-09	0.00E+00	2.80E-07	1.03E-07	2.49E-09	0.00E+00	1.05E-07
1396	457373.9	3767325	8.85E-07	4.19E-08	0.00E+00	9.27E-07	8.85E-07	4.19E-08	0.00E+00	9.27E-07	2.65E-07	7.53E-09	0.00E+00	2.73E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
1397	457403.9	3767325	8.58E-07	4.06E-08	0.00E+00	8.98E-07	8.58E-07	4.06E-08	0.00E+00	8.98E-07	2.57E-07	7.30E-09	0.00E+00	2.64E-07	9.73E-08	2.36E-09	0.00E+00	9.97E-08
1398	457433.9	3767325	8.27E-07	3.92E-08	0.00E+00	8.66E-07	8.27E-07	3.92E-08	0.00E+00	8.66E-07	2.48E-07	7.04E-09	0.00E+00	2.55E-07	9.38E-08	2.27E-09	0.00E+00	9.61E-08
1399	457463.9	3767325	7.94E-07	3.76E-08	0.00E+00	8.32E-07	7.94E-07	3.76E-08	0.00E+00	8.32E-07	2.38E-07	6.76E-09	0.00E+00	2.45E-07	9.01E-08	2.18E-09	0.00E+00	9.23E-08
1400	457493.9	3767325	7.59E-07	3.59E-08	0.00E+00	7.95E-07	7.59E-07	3.59E-08	0.00E+00	7.95E-07	2.27E-07	6.46E-09	0.00E+00	2.34E-07	8.61E-08	2.09E-09	0.00E+00	8.82E-08
1401	457523.9	3767325	7.23E-07	3.42E-08	0.00E+00	7.57E-07	7.23E-07	3.42E-08	0.00E+00	7.57E-07	2.16E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.40E-08
1402	457553.9	3767325	6.85E-07	3.24E-08	0.00E+00	7.18E-07	6.85E-07	3.24E-08	0.00E+00	7.18E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
1403	457583.9	3767325	6.47E-07	3.07E-08	0.00E+00	6.78E-07	6.47E-07	3.07E-08	0.00E+00	6.78E-07	1.94E-07	5.51E-09	0.00E+00	1.99E-07	7.35E-08	1.78E-09	0.00E+00	7.52E-08
1404	457613.9	3767325	6.1E-07	2.89E-08	0.00E+00	6.39E-07	6.10E-07	2.89E-08	0.00E+00	6.39E-07	1.83E-07	5.19E-09	0.00E+00	1.88E-07	6.92E-08	1.68E-09	0.00E+00	7.09E-08
1405	457643.9	3767325	5.74E-07	2.72E-08	0.00E+00	6.01E-07	5.74E-07	2.72E-08	0.00E+00	6.01E-07	1.72E-07	4.88E-09	0.00E+00	1.77E-07	6.51E-08	1.58E-09	0.00E+00	6.67E-08
1406	457673.9	3767325	5.39E-07	2.55E-08	0.00E+00	5.64E-07	5.39E-07	2.55E-08	0.00E+00	5.64E-07	1.61E-07	4.59E-09	0.00E+00	1.66E-07	6.11E-08	1.48E-09	0.00E+00	6.26E-08
1407	457703.9	3767325	5.05E-07	2.39E-08	0.00E+00	5.29E-07	5.05E-07	2.39E-08	0.00E+00	5.29E-07	1.51E-07	4.30E-09	0.00E+00	1.56E-07	5.73E-08	1.39E-09	0.00E+00	5.87E-08
1408	457733.9	3767325	4.74E-07	2.24E-08	0.00E+00	4.96E-07	4.74E-07	2.24E-08	0.00E+00	4.96E-07	1.42E-07	4.03E-09	0.00E+00	1.46E-07	5.37E-08	1.30E-09	0.00E+00	5.50E-08
1409	457763.9	3767325	4.44E-07	2.1E-08	0.00E+00	4.65E-07	4.44E-07	2.10E-08	0.00E+00	4.65E-07	1.33E-07	3.78E-09	0.00E+00	1.37E-07	5.04E-08	1.22E-09	0.00E+00	5.16E-08
1410	457793.9	3767325	4.16E-07	1.97E-08	0.00E+00	4.36E-07	4.16E-07	1.97E-08	0.00E+00	4.36E-07	1.25E-07	3.54E-09	0.00E+00	1.28E-07	4.72E-08	1.14E-09	0.00E+00	4.84E-08
1411	457823.9	3767325	3.9E-07	1.85E-08	0.00E+00	4.09E-07	3.90E-07	1.85E-08	0.00E+00	4.09E-07	1.17E-07	3.32E-09	0.00E+00	1.20E-07	4.43E-08	1.07E-09	0.00E+00	4.54E-08
1412	457853.9	3767325	3.67E-07	1.74E-08	0.00E+00	3.84E-07	3.67E-07	1.74E-08	0.00E+00	3.84E-07	1.10E-07	3.12E-09	0.00E+00	1.13E-07	4.16E-08	1.01E-09	0.00E+00	4.26E-08
1413	457883.9	3767325	3.45E-07	1.63E-08	0.00E+00	3.61E-07	3.45E-07	1.63E-08	0.00E+00	3.61E-07	1.03E-07	2.94E-09	0.00E+00	1.06E-07	3.91E-08	9.48E-10	0.00E+00	4.01E-08
1414	457913.9	3767325	3.25E-07	1.54E-08	0.00E+00	3.40E-07	3.25E-07	1.54E-08	0.00E+00	3.40E-07	9.72E-08	2.76E-09	0.00E+00	1.00E-07	3.68E-08	8.92E-10	0.00E+00	3.77E-08
1415	457943.9	3767325	3.06E-07	1.45E-08	0.00E+00	3.20E-07	3.06E-07	1.45E-08	0.00E+00	3.20E-07	9.16E-08	2.60E-09	0.00E+00	9.42E-08	3.47E-08	8.41E-10	0.00E+00	3.56E-08
1416	457973.9	3767325	2.89E-07	1.37E-08	0.00E+00	3.03E-07	2.89E-07	1.37E-08	0.00E+00	3.03E-07	8.65E-08	2.46E-09	0.00E+00	8.90E-08	3.28E-08	7.94E-10	0.00E+00	3.36E-08
1417	458003.9	3767325	2.73E-07	1.29E-08	0.00E+00	2.86E-07	2.73E-07	1.29E-08	0.00E+00	2.86E-07	8.18E-08	2.33E-09	0.00E+00	8.41E-08	3.10E-08	7.51E-10	0.00E+00	3.17E-08
1418	458033.9	3767325	2.59E-07	1.22E-08	0.00E+00	2.71E-07	2.59E-07	1.22E-08	0.00E+00	2.71E-07	7.75E-08	2.20E-09	0.00E+00	7.97E-08	2.93E-08	7.11E-10	0.00E+00	3.01E-08
1419	458063.9	3767325	2.45E-07	1.16E-08	0.00E+00	2.57E-07	2.45E-07	1.16E-08	0.00E+00	2.57E-07	7.35E-08	2.09E-09	0.00E+00	7.56E-08	2.78E-08	6.74E-10	0.00E+00	2.85E-08
1420	458093.9	3767325	2.33E-07	1.1E-08	0.00E+00	2.44E-07	2.33E-07	1.10E-08	0.00E+00	2.44E-07	6.98E-08	1.98E-09	0.00E+00	7.18E-08	2.64E-08	6.40E-10	0.00E+00	2.71E-08
1421	458123.9	3767325	2.22E-07	1.05E-08	0.00E+00	2.32E-07	2.22E-07	1.05E-08	0.00E+00	2.32E-07	6.64E-08	1.89E-09	0.00E+00	6.83E-08	2.52E-08	6.09E-10	0.00E+00	2.58E-08
1422	458153.9	3767325	2.11E-07	1E-08	0.00E+00	2.21E-07	2.11E-07	1.00E-08	0.00E+00	2.21E-07	6.33E-08	1.80E-09	0.00E+00	6.51E-08	2.40E-08	5.81E-10	0.00E+00	2.46E-08
1423	458183.9	3767325	2.02E-07	9.55E-09	0.00E+00	2.11E-07	2.02E-07	9.55E-09	0.00E+00	2.11E-07	6.04E-08	1.72E-09	0.00E+00	6.21E-08	2.29E-08	5.54E-10	0.00E+00	2.34E-08
1424	456713.9	3767355	5.79E-07	2.74E-08	0.00E+00	6.07E-07	5.79E-07	2.74E-08	0.00E+00	6.07E-07	1.73E-07	4.93E-09	0.00E+00	1.78E-07	6.57E-08	1.59E-09	0.00E+00	6.73E-08
1425	456743.9	3767355	6.07E-07	2.88E-08	0.00E+00	6.36E-07	6.07E-07	2.88E-08	0.00E+00	6.36E-07	1.82E-07	5.17E-09	0.00E+00	1.87E-07	6.89E-08	1.67E-09	0.00E+00	7.06E-08
1426	456773.9	3767355	6.37E-07	3.01E-08	0.00E+00	6.67E-07	6.37E-07	3.01E-08	0.00E+00	6.67E-07	1.91E-07	5.42E-09	0.00E+00	1.96E-07	7.22E-08	1.75E-09	0.00E+00	7.40E-08
1427	456803.9	3767355	6.67E-07	3.16E-08	0.00E+00	6.99E-07	6.67E-07	3.16E-08	0.00E+00	6.99E-07	2.00E-07	5.68E-09	0.00E+00	2.06E-07	7.57E-08	1.83E-09	0.00E+00	7.75E-08

1428	456833.9	3767355	6.99E-07	3.31E-08	0.00E+00	7.32E-07	6.99E-07	3.31E-08	0.00E+00	7.32E-07	2.09E-07	5.95E-09	0.00E+00	2.15E-07	7.93E-08	1.92E-09	0.00E+00	8.12E-08
1429	456863.9	3767355	7.31E-07	3.46E-08	0.00E+00	7.66E-07	7.31E-07	3.46E-08	0.00E+00	7.66E-07	2.19E-07	6.23E-09	0.00E+00	2.25E-07	8.30E-08	2.01E-09	0.00E+00	8.50E-08
1430	456893.9	3767355	7.64E-07	3.62E-08	0.00E+00	8.00E-07	7.64E-07	3.62E-08	0.00E+00	8.00E-07	2.29E-07	6.50E-09	0.00E+00	2.35E-07	8.66E-08	2.10E-09	0.00E+00	8.87E-08
1431	456923.9	3767355	7.96E-07	3.77E-08	0.00E+00	8.34E-07	7.96E-07	3.77E-08	0.00E+00	8.34E-07	2.39E-07	6.78E-09	0.00E+00	2.45E-07	9.04E-08	2.19E-09	0.00E+00	9.26E-08
1432	456953.9	3767355	8.29E-07	3.92E-08	0.00E+00	8.68E-07	8.29E-07	3.92E-08	0.00E+00	8.68E-07	2.48E-07	7.06E-09	0.00E+00	2.55E-07	9.40E-08	2.28E-09	0.00E+00	9.63E-08
1433	456983.9	3767355	8.6E-07	4.07E-08	0.00E+00	9.01E-07	8.60E-07	4.07E-08	0.00E+00	9.01E-07	2.58E-07	7.32E-09	0.00E+00	2.65E-07	9.76E-08	2.36E-09	0.00E+00	9.99E-08
1434	457013.9	3767355	8.89E-07	4.21E-08	0.00E+00	9.31E-07	8.89E-07	4.21E-08	0.00E+00	9.31E-07	2.66E-07	7.57E-09	0.00E+00	2.74E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
1435	457043.9	3767355	9.16E-07	4.34E-08	0.00E+00	9.60E-07	9.16E-07	4.34E-08	0.00E+00	9.60E-07	2.74E-07	7.80E-09	0.00E+00	2.82E-07	1.04E-07	2.52E-09	0.00E+00	1.06E-07
1436	457073.9	3767355	9.42E-07	4.46E-08	0.00E+00	9.86E-07	9.42E-07	4.46E-08	0.00E+00	9.86E-07	2.82E-07	8.02E-09	0.00E+00	2.90E-07	1.07E-07	2.59E-09	0.00E+00	1.09E-07
1437	457103.9	3767355	9.64E-07	4.57E-08	0.00E+00	1.01E-06	9.64E-07	4.57E-08	0.00E+00	1.01E-06	2.89E-07	8.21E-09	0.00E+00	2.97E-07	1.09E-07	2.65E-09	0.00E+00	1.12E-07
1438	457133.9	3767355	9.83E-07	4.65E-08	0.00E+00	1.03E-06	9.83E-07	4.65E-08	0.00E+00	1.03E-06	2.94E-07	8.37E-09	0.00E+00	3.03E-07	1.12E-07	2.70E-09	0.00E+00	1.14E-07
1439	457163.9	3767355	9.97E-07	4.72E-08	0.00E+00	1.04E-06	9.97E-07	4.72E-08	0.00E+00	1.04E-06	2.99E-07	8.49E-09	0.00E+00	3.07E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
1440	457193.9	3767355	1.01E-06	4.76E-08	0.00E+00	1.05E-06	1.01E-06	4.76E-08	0.00E+00	1.05E-06	3.01E-07	8.56E-09	0.00E+00	3.10E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
1441	457223.9	3767355	1.01E-06	4.78E-08	0.00E+00	1.06E-06	1.01E-06	4.78E-08	0.00E+00	1.06E-06	3.02E-07	8.59E-09	0.00E+00	3.11E-07	1.14E-07	2.77E-09	0.00E+00	1.17E-07
1442	457253.9	3767355	1.01E-06	4.77E-08	0.00E+00	1.06E-06	1.01E-06	4.77E-08	0.00E+00	1.06E-06	3.02E-07	8.58E-09	0.00E+00	3.10E-07	1.14E-07	2.77E-09	0.00E+00	1.17E-07
1443	457283.9	3767355	1E-06	4.74E-08	0.00E+00	1.05E-06	1.00E-06	4.74E-08	0.00E+00	1.05E-06	3.00E-07	8.52E-09	0.00E+00	3.08E-07	1.13E-07	2.75E-09	0.00E+00	1.16E-07
1444	457313.9	3767355	9.87E-07	4.67E-08	0.00E+00	1.03E-06	9.87E-07	4.67E-08	0.00E+00	1.03E-06	2.96E-07	8.40E-09	0.00E+00	3.04E-07	1.12E-07	2.71E-09	0.00E+00	1.15E-07
1445	457343.9	3767355	9.68E-07	4.58E-08	0.00E+00	1.01E-06	9.68E-07	4.58E-08	0.00E+00	1.01E-06	2.90E-07	8.24E-09	0.00E+00	2.98E-07	1.10E-07	2.66E-09	0.00E+00	1.13E-07
1446	457373.9	3767355	9.45E-07	4.47E-08	0.00E+00	9.90E-07	9.45E-07	4.47E-08	0.00E+00	9.90E-07	2.83E-07	8.04E-09	0.00E+00	2.91E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
1447	457403.9	3767355	9.16E-07	4.34E-08	0.00E+00	9.60E-07	9.16E-07	4.34E-08	0.00E+00	9.60E-07	2.74E-07	7.80E-09	0.00E+00	2.82E-07	1.04E-07	2.52E-09	0.00E+00	1.06E-07
1448	457433.9	3767355	8.84E-07	4.18E-08	0.00E+00	9.25E-07	8.84E-07	4.18E-08	0.00E+00	9.25E-07	2.65E-07	7.52E-09	0.00E+00	2.72E-07	1.00E-07	2.43E-09	0.00E+00	1.03E-07
1449	457463.9	3767355	8.48E-07	4.01E-08	0.00E+00	8.88E-07	8.48E-07	4.01E-08	0.00E+00	8.88E-07	2.54E-07	7.22E-09	0.00E+00	2.61E-07	9.62E-08	2.33E-09	0.00E+00	9.85E-08
1450	457493.9	3767355	8.1E-07	3.83E-08	0.00E+00	8.48E-07	8.10E-07	3.83E-08	0.00E+00	8.48E-07	2.42E-07	6.89E-09	0.00E+00	2.49E-07	9.19E-08	2.23E-09	0.00E+00	9.41E-08
1451	457523.9	3767355	7.7E-07	3.64E-08	0.00E+00	8.06E-07	7.70E-07	3.64E-08	0.00E+00	8.06E-07	2.31E-07	6.55E-09	0.00E+00	2.37E-07	8.73E-08	2.12E-09	0.00E+00	8.94E-08
1452	457553.9	3767355	7.29E-07	3.45E-08	0.00E+00	7.63E-07	7.29E-07	3.45E-08	0.00E+00	7.63E-07	2.18E-07	6.20E-09	0.00E+00	2.24E-07	8.27E-08	2.00E-09	0.00E+00	8.47E-08
1453	457583.9	3767355	6.87E-07	3.25E-08	0.00E+00	7.20E-07	6.87E-07	3.25E-08	0.00E+00	7.20E-07	2.06E-07	5.85E-09	0.00E+00	2.12E-07	7.80E-08	1.89E-09	0.00E+00	7.99E-08
1454	457613.9	3767355	6.47E-07	3.06E-08	0.00E+00	6.77E-07	6.47E-07	3.06E-08	0.00E+00	6.77E-07	1.94E-07	5.50E-09	0.00E+00	1.99E-07	7.34E-08	1.78E-09	0.00E+00	7.51E-08
1455	457643.9	3767355	6.07E-07	2.87E-08	0.00E+00	6.36E-07	6.07E-07	2.87E-08	0.00E+00	6.36E-07	1.82E-07	5.17E-09	0.00E+00	1.87E-07	6.88E-08	1.67E-09	0.00E+00	7.05E-08
1456	457673.9	3767355	5.68E-07	2.69E-08	0.00E+00	5.95E-07	5.68E-07	2.69E-08	0.00E+00	5.95E-07	1.70E-07	4.84E-09	0.00E+00	1.75E-07	6.45E-08	1.56E-09	0.00E+00	6.61E-08
1457	457703.9	3767355	5.32E-07	2.52E-08	0.00E+00	5.57E-07	5.32E-07	2.52E-08	0.00E+00	5.57E-07	1.59E-07	4.53E-09	0.00E+00	1.64E-07	6.03E-08	1.46E-09	0.00E+00	6.18E-08
1458	457733.9	3767355	4.97E-07	2.36E-08	0.00E+00	5.21E-07	4.97E-07	2.36E-08	0.00E+00	5.21E-07	1.49E-07	4.23E-09	0.00E+00	1.53E-07	5.64E-08	1.37E-09	0.00E+00	5.78E-08
1459	457763.9	3767355	4.65E-07	2.2E-08	0.00E+00	4.87E-07	4.65E-07	2.20E-08	0.00E+00	4.87E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
1460	457793.9	3767355	4.35E-07	2.06E-08	0.00E+00	4.56E-07	4.35E-07	2.06E-08	0.00E+00	4.56E-07	1.30E-07	3.70E-09	0.00E+00	1.34E-07	4.94E-08	1.20E-09	0.00E+00	5.06E-08
1461	457823.9	3767355	4.07E-07	1.93E-08	0.00E+00	4.27E-07	4.07E-07	1.93E-08	0.00E+00	4.27E-07	1.22E-07	3.47E-09	0.00E+00	1.26E-07	4.62E-08	1.12E-09	0.00E+00	4.73E-08
1462	457853.9	3767355	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.14E-07	3.25E-09	0.00E+00	1.18E-07	4.33E-08	1.05E-09	0.00E+00	4.44E-08
1463	457883.9	3767355	3.58E-07	1.7E-08	0.00E+00	3.75E-07	3.58E-07	1.70E-08	0.00E+00	3.75E-07	1.07E-07	3.05E-09	0.00E+00	1.10E-07	4.07E-08	9.85E-10	0.00E+00	4.16E-08
1464	457913.9	3767355	3.37E-07	1.59E-08	0.00E+00	3.53E-07	3.37E-07	1.59E-08	0.00E+00	3.53E-07	1.01E-07	2.87E-09	0.00E+00	1.04E-07	3.82E-08	9.25E-10	0.00E+00	3.91E-08
1465	457943.9	3767355	3.17E-07	1.5E-08	0.00E+00	3.32E-07	3.17E-07	1.50E-08	0.00E+00	3.32E-07	9.49E-08	2.70E-09	0.00E+00	9.76E-08	3.60E-08	8.71E-10	0.00E+00	3.68E-08
1466	457973.9	3767355	2.99E-07	1.41E-08	0.00E+00	3.13E-07	2.99E-07	1.41E-08	0.00E+00	3.13E-07	8.95E-08	2.54E-09	0.00E+00	9.20E-08	3.39E-08	8.21E-10	0.00E+00	3.47E-08
1467	458003.9	3767355	2.82E-07	1.34E-08	0.00E+00	2.95E-07	2.82E-07	1.34E-08	0.00E+00	2.95E-07	8.45E-08	2.40E-09	0.00E+00	8.69E-08	3.20E-08	7.75E-10	0.00E+00	3.28E-08
1468	458033.9	3767355	2.67E-07	1.26E-08	0.00E+00	2.79E-07	2.67E-07	1.26E-08	0.00E+00	2.79E-07	7.99E-08	2.27E-09	0.00E+00	8.22E-08	3.03E-08	7.33E-10	0.00E+00	3.10E-08
1469	458063.9	3767355	2.53E-07	1.2E-08	0.00E+00	2.65E-07	2.53E-07	1.20E-08	0.00E+00	2.65E-07	7.57E-08	2.15E-09	0.00E+00	7.79E-08	2.87E-08	6.95E-10	0.00E+00	2.94E-08
1470	458093.9	3767355	2.4E-07	1.14E-08	0.00E+00	2.51E-07	2.40E-07	1.14E-08	0.00E+00	2.51E-07	7.19E-08	2.04E-09	0.00E+00	7.39E-08	2.72E-08	6.59E-10	0.00E+00	2.79E-08
1471	458123.9	3767355	2.28E-07	1.08E-08	0.00E+00	2.39E-07	2.28E-07	1.08E-08	0.00E+00	2.39E-07	6.83E-08	1.94E-09	0.00E+00	7.03E-08	2.59E-08	6.27E-10	0.00E+00	2.65E-08
1472	458153.9	3767355	2.17E-07	1.03E-08	0.00E+00	2.28E-07	2.17E-07	1.03E-08	0.00E+00	2.28E-07	6.51E-08	1.85E-09	0.00E+00	6.70E-08	2.47E-08	5.97E-10	0.00E+00	2.53E-08
1473	458183.9	3767355	2.07E-07	9.82E-09	0.00E+00	2.17E-07	2.07E-07	9.82E-09	0.00E+00	2.17E-07	6.21E-08	1.77E-09	0.00E+00	6.39E-08	2.35E-08	5.70E-10	0.00E+00	2.41E-08
1474	456713.9	3767385	5.88E-07	2.78E-08	0.00E+00	6.16E-07	5.88E-07	2.78E-08	0.00E+00	6.16E-07	1.76E-07	5.00E-09	0.00E+00	1.81E-07	6.67E-08	1.62E-09	0.00E+00	6.83E-08
1475	456743.9	3767385	6.18E-07	2.92E-08	0.00E+00	6.47E-07	6.18E-07	2.92E-08	0.00E+00	6.47E-07	1.85E-07	5.26E-09	0.00E+00	1.90E-07	7.01E-08	1.70E-09	0.00E+00	7.18E-08
1476	456773.9	3767385	6.49E-07	3.07E-08	0.00E+00	6.80E-07	6.49E-07	3.07E-08	0.00E+00	6.80E-07	1.94E-07	5.53E-09	0.00E+00	2.00E-07	7.37E-08	1.78E-09	0.00E+00	7.54E-08
1477	456803.9	3767385	6.82E-07	3.23E-08	0.00E+00	7.14E-07	6.82E-07	3.23E-08	0.00E+00	7.14E-07	2.04E-07	5.81E-09	0.00E+00	2.10E-07	7.74E-08	1.87E-09	0.00E+00	7.93E-08
1478	456833.9	3767385	7.16E-07	3.39E-08	0.00E+00	7.50E-07	7.16E-07	3.39E-08	0.00E+00	7.50E-07	2.14E-07	6.10E-09	0.00E+00	2.21E-07	8.12E-08	1.97E-09	0.00E+00	8.32E-08
1479	456863.9	3767385	7.51E-07	3.56E-08	0.00E+00	7.86E-07	7.51E-07	3.56E-08	0.00E+00	7.86E-07	2.25E-07	6.39E-09	0.00E+00	2.31E-07	8.52E-08	2.06E-09	0.00E+00	8.73E-08
1480	456893.9	3767385	7.86E-07	3.72E-08	0.00E+00	8.23E-07	7.86E-07	3.72E-08	0.00E+00	8.23E-07	2.35E-07	6.69E-09	0.00E+00	2.42E-07	8.91E-08	2.16E-09	0.00E+00	9.13E-08
1481	456923.9	3767385	8.21E-07	3.89E-08	0.00E+00	8.60E-07	8.21E-07	3.89E-08	0.00E+00	8.60E-07	2.46E-07	6.99E-09	0.00E+00	2.53E-07	9.32E-08	2.26E-09	0.00E+00	9.54E-08
1482	456953.9	3767385	8.57E-07	4.06E-08	0.00E+00	8.98E-07	8.57E-07	4.06E-08	0.00E+00	8.98E-07	2.57E-07	7.30E-09	0.00E+00	2.64E-07	9.73E-08	2.36E-09	0.00E+00	9.96E-08
1483	456983.9	3767385	8.93E-07	4.23E-08	0.00E+00	9.35E-07	8.93E-07	4.23E-08	0.00E+00	9.35E-07	2.67E-07	7.60E-09	0.00E+00	2.75E-07	1.01E-07	2.45E-09	0.00E+00	1.04E-07
1484	457013.9	3767385	9.27E-07	4.39E-08	0.00E+00	9.71E-07	9.27E-07	4.39E-08	0.00E+00	9.71E-07	2.78E-07	7.89E-09	0.00E+00	2.86E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
1485	457043.9	3767385	9.59E-07	4.54E-08	0.00E+00	1.00E-06	9.59E-07	4.54E-08	0.00E+00	1.00E-06	2.87E-07	8.16E-09	0.00E+00	2.95E-07	1.09E-07	2.64E-09	0.00E+00	1.11E-07
1486	457073.9	3767385	9.88E-07	4.68E-08	0.00E+00	1.03E-06	9.88E-07	4.68E-08	0.00E+00	1.03E-06	2.96E-07	8.41E-09	0.00E+00	3.04E-07	1.12E-07	2.72E-09	0.00E+00	1.15E-07
1487	457103.9	3767385	1.01E-06	4.8E-08	0.00E+00	1.06E-06	1.01E-06	4.80E-08	0.00E+00	1.06E-06	3.04E-07	8.64E-09	0.00E+00	3.13E-07	1.15E-07	2.79E-09	0.00E+00	1.18E-07
1488	457133.9	3767385	1.04E-06	4.91E-08	0.00E+00	1.09E-06	1.04E-06	4.91E-08	0.00E+00	1.09E-06	3.11E-07	8.83E-09	0.00E+00	3.19E-07	1.18E-07	2.85E-09	0.00E+00	1.21E-07
1489	457163.9	3767385	1.05E-06	4.99E-08	0.00E+00	1.10E-06	1.05E-06	4.99E-08	0.00E+00	1.10E-06	3.16E-07	8.97E-09	0.00E+00	3.25E-07	1.20E-07	2.90E-09	0.00E+00	1.22E-07
1490	457193.9	3767385	1.07E-06	5.05E-08	0.00E+00	1.12E-06	1.07E-06	5.05E-08	0.00E+00	1.12E-06	3.19E-07	9.07E-09	0.00E+00	3.28E-07	1.21E-07	2.93E-09	0.00E+00	1.24E-07
1491	457223.9	3767385	1.07E-06	5.08E-08	0.00E+00	1.12E-06	1.07E-06	5.08E-08	0.00E+00	1.12E-06	3.21E-07	9.13E-09	0.00E+00	3.30E-07	1.22E-07	2.95E-09	0.00E+00	1.25E-07
1492	457253.9	3767385	1.07E-06	5.08E-08	0.00E+00	1.12E-06	1.07E-06	5.08E-08	0.00E+00	1.12E-06	3.21E-07	9.13E-09	0.00E+00	3.30E-07	1.22E-07	2.95E-09	0.00E+00	1.25E-07
1493	457283.9	3767385	1.07E-06	5.05E-08	0.00E+00	1.12E-06	1.07E-06	5.05E-08	0.00E+00	1.12E-06	3.19E-07	9.08E-09	0.00E+00	3.29E-07	1.21E-07	2.93E-09	0.00E+00	1.24E-07
1494	457313.9	3767385	1.05E-06	4.99E-08	0.00E+00	1.10E-06	1.05E-06	4.99E-08	0.00E+00	1.10E-06	3.16E-07	8.97E-09	0.00E+00	3.25E-07	1.20E-07	2.90E-09	0.00E+00	1.22E-07
1495	457343.9	3767385	1.04E-06	4.9E-08	0.00E+00	1.08E-06	1.04E-06	4.90E-08	0.00E+00	1.08E-06	3.10E-07	8.82E-09	0.00E+00	3.19E-07	1.17E-07	2.85E-09	0.00E+00	1.20E-07
1496	457373.9	3767385	1.01E-06	4.79E-08	0.00E+00	1.06E-06	1.01E-06	4.79E-08	0.00E+00	1.06E-06	3.03E-07	8.61E-09	0.00E+00	3.11E-07	1.15E-07	2.78E-09	0.00E+00	1.18E-07
1497	457403.9	3767385	9.81E-07	4.65E-08	0.00E+00	1.03E-06	9.81E-07	4.65E-08	0.00E+00	1.03E-06	2.94E-07	8.35E-09	0.00E+00	3.02E-07	1.11E-07	2.70E-09	0.00E+00	1.14E-07
1498	457433.9	3767385	9.46E-07	4.48E-08	0.00E+00	9.91E-07	9.46E-07	4.48E-08	0.00E+00	9.91E-07	2.83E-07	8.06E-09	0.00E+00	2.91E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
1499	457463.9	3767385	9.07E-07	4.3E-08	0.00E+00	9.50E-07	9.07E-07	4.30E-08	0.00E+00	9.50E-07	2.72E-07	7.72E-09	0.00E+00	2.79E-07	1.03E-07	2.49E-09	0.00E+00	1.05E-07
1500	457493.9	3767385	8.65E-07	4.1E-08	0.00E+00	9.06E-07	8.65E-07	4.10E-08	0.00E+00	9.06E-07	2.59E-07	7.37E-09	0.00E+00	2.67E-07	9.82E-08	2.38E-09	0.00E+00	1.01E-07
1501	457523.9	3767385	8.22E-07	3.89E-08	0.00E+00	8.61E-07	8.22E-07	3.89E-08	0.00E+00	8.61E-07	2.46E-07	6.99E-09	0.00E+00	2.53E-07	9.32E-08	2.26E-09	0.00E+00	9.55E-08
1502	457553.9	3767385	7.77E-07	3.68E-08	0.00E+00	8.13E-07	7.77E-07	3.68E-08	0.00E+00	8.13E-07	2.33E-07	6.61E-09	0.00E+00	2.39E-07	8.81E-08	2.13E-09	0.00E+00	9.03E-08
1503	457583.9	3767385	7.31E-07	3.46E-08	0.00E+00	7.66E-07	7.31E-07	3.46E-08	0.00E+00	7.66E-07	2.19E-07	6.23E-09	0.00E+00	2.25E-07	8.30E-08	2.01E-09	0.00E+00	8.50E-08
1504	457613.9	3767385	6.87E-07	3.25E-08	0.00E+00	7.19E-07	6.87E-07	3.25E-08	0.00E+00	7.19E-07	2.06E-07	5.85E-09	0.00E+00	2.12E-07	7.79E-08	1.89E-09	0.00E+00	7.98E-08
1505	457643.9	3767385	6.43E-07	3.04E-08	0.00E+00	6.73E-07	6.43E-07	3.04E-08	0.00E+00	6.73E-07	1.93E-07	5.47E-09	0.00E+00	1.98E-07	7.29E-08	1.77E-09	0.00E+00	7.47E-08
1506	457673.9	3767385	6.01E-07	2.84E-08	0.00E+00	6.29E-07	6.01E-07	2.84E-08	0.00E+00	6.29E-07	1.80E-07	5.12E-09	0.00E+00	1.85E-07	6.82E-08	1.65E-09	0.00E+00	6.98E-08
1507	457703.9	3767385	5.61E-07	2.66E-08	0.00E+00	5.87E-07	5.61E-07	2.66E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.52E-08
1508	457733.9	3767385	5.23E-07	2.48E-08	0.00E+00	5.48E-07	5.23E-07	2.48E-08	0.00E+00	5.48E-07	1.57E-07	4.45E-09	0.00E+00	1.61E-07	5.94E-08	1.44E-09	0.00E+00	6.08E-08
1509	457763.9	3767385	4.88E-07	2.31E-08	0.00E+00	5.11E-07	4.88E-07	2.31E-08	0.00E+00	5.11E-07	1.46E-07	4.15E-09	0.00E+00	1.50E-07	5.54E-08	1.34E-09	0.00E+00	5.67E-08
1510	457793.9	3767385	4.56E-07	2.16E-08	0.00E+00	4.77E-07	4.56E-07	2.16E-08	0.00E+00	4.77E-07	1.36E-07	3.88E-09	0.00E+00	1.40E-07	5.17E-08	1.25E-09	0.00E+00	5.29E-08
1511	457823.9	3767385	4.26E-07	2.02E-08	0.00E+00	4.46E-07	4.26E-07	2.02E-08	0.00E+00	4.46E-07	1.28E-07	3.62E-09	0.00E+00	1.31E-07	4.83E-08	1.17E-09	0.00E+00	4.95E-08
1512	457853.9	3767385	3.98E-07	1.88E-08	0.00E+00	4.17E-07	3.98E-07	1.88E-08	0.00E+00	4.17E-07	1.19E-07	3.39E-09	0.00E+00	1.23E-07	4.52E-08	1.09E-09	0.00E+00	4.63E-08
1513	457883.9	3767385	3.73E-07	1.76E-08	0.00E+00	3.90E-07	3.73E-07	1.76E-08	0.00E+00	3.90E-07	1.12E-07	3.17E-09	0.00E+00	1.15E-07	4.23E-08	1.02E-09	0.00E+00	4.33E-08
1514	457913.9	3767385	3.5E-07	1.66E-08	0.00E+00	3.66E-07	3.50E-07	1.66E-08	0.00E+00	3.66E-07	1.05E-07	2.98E-09	0.00E+00	1.08E-07	3.97E-08	9.61E-10	0.00E+00	4.06E-08
1515	457943.9	3767385	3.29E-07	1.56E-08	0.00E+00	3.44E-07	3.29E-07	1.56E-08	0.00E+00	3.44E-07	9.84E-08	2.80E-09	0.00E+00	1.01E-07	3.73E-08	9.03E-10	0.00E+00	3.82E-08
1516	457973.9	3767385	3.09E-07	1.46E-08	0.00E+00	3.24E-07	3.09E-07	1.46E-08	0.00E+00	3.24E-07	9.26E-08	2.63E-09	0.00E+00	9.53E-08	3.51E-08	8.50E-10	0.00E+00	3.59E-08
1517	458003.9	3767385	2.92E-07	1.38E-08	0.00E+00	3.05E-07	2.92E-07	1.38E-08	0.00E+00	3.05E-07	8.74E-08	2.48E-09	0.00E+00	8.98E-08	3.31E-08	8.01E-10	0.00E+00	3.39E-08
1518	458033.9	3767385	2.76E-07	1.3E-08	0.00E+00	2.89E-07	2.76E-07	1.30E-08	0.00E+00	2.89E-07	8.25E-08	2.35E-09	0.00E+00	8.49E-08	3.13E-08	7.57E-10	0.00E+00	3.20E-08
1519	458063.9	3767385	2.61E-07	1.23E-08	0.00E+00	2.73E-07	2.61E-07	1.23E-08	0.00E+00	2.73E-07	7.81E-08	2.22E-09	0.00E+00	8.03E-08	2.96E-08	7.17E-10	0.00E+00	3.03E-08
1520	458093.9	3767385	2.47E-07	1.17E-08	0.00E+00	2.59E-07	2.47E-07	1.17E-08	0.00E+00	2.59E-07	7.41E-08	2.11E-09	0.00E+00	7.62E-08	2.81E-08	6.80E-10	0.00E+00	2.87E-08
1521	458123.9	3767385	2.35E-07	1.11E-08	0.00E+00	2.46E-07	2.35E-07	1.11E-08	0.00E+00	2.46E-07	7.04E-08	2.00E-09	0.00E+00	7.24E-08	2.67E-08	6.46E-10	0.00E+00	2.73E-08
1522	458153.9	3767385	2.24E-07	1.06E-08	0.00E+00	2.34E-07	2.24E-07	1.06E-08	0.00E+00	2.34E-07	6.70E-08	1.91E-09	0.00E+00	6.89E-08	2.54E-08	6.15E-10	0.00E+00	2.60E-08
1523	458183.9	3767385	2.13E-07	1.01E-08	0.00E+00	2.24E-07	2.13E-07	1.01E-08	0.00E+00	2.24E-07	6.39E-08	1.82E-09	0.00E+00	6.57E-08	2.42E-08	5.87E-10	0.00E+00	2.48E-08
1524	456713.9	3767415	5.96E-07	2.82E-08	0.00E+00	6.24E-07	5.96E-07	2.82E-08	0.00E+00	6.24E-07	1.78E-07	5.07E-09	0.00E+00	1.83E-07	6.76E-08	1.64E-09	0.00E+00	6.92E-08
1525	456743.9	3767415	6.28E-07	2.97E-08	0.00E+00	6.57E-07	6.28E-07	2.97E-08	0.00E+00	6.57E-07	1.88E-07	5.34E-09	0.00E+00	1.93E-07	7.12E-08	1.73E-09	0.00E+00	7.29E-08
1526	456773.9	3767415	6.61E-07	3.13E-08	0.00E+00	6.93E-07	6.61E-07	3.13E-08	0.00E+00	6.93E-07	1.98E-07	5.63E-09	0.00E+00	2.04E-07	7.50E-08	1.82E-09	0.00E+00	7.69E-08
1527	456803.9	3767415	6.96E-07	3.3E-08	0.00E+00	7.29E-07	6.96E-07	3.30E-08	0.00E+00	7.29E-07	2.08E-07	5.93E-09	0.00E+00	2.14E-07	7.90E-08	1.91E-09	0.00E+00	8.09E-08
1528	456833.9	3767415	7.33E-07	3.47E-08	0.00E+00	7.67E-07	7.33E-07	3.47E-08	0.00E+00	7.67E-07	2.19E-07	6.24E-09	0.00E+00	2.26E-07	8.31E-08	2.01E-09	0.00E+00	8.51E-08
1529	456863.9	3767415	7.7E-07	3.65E-08	0.00E+00	8.07E-07	7.70E-07	3.65E-08	0.00E+00	8.07E-07	2.31E-07	6.56E-09	0.00E+00	2.37E-07	8.74E-08	2.12E-09	0.00E+00	8.95E-08
1530	456893.9	3767415	8.08E-07	3.83E-08	0.00E+00	8.47E-07	8.08E-07	3.83E-08	0.00E+00	8.47E-07	2.42E-07	6.88E-09	0.00E+00	2.49E-07	9.17E-08	2.22E-09	0.00E+00	9.39E-08
1531	456923.9	3767415	8.47E-07	4.01E-08	0.00E+00	8.87E-07	8.47E-07	4.01E-08	0.00E+00	8.87E-07	2.54E-07	7.21E-09	0.00E+00	2.61E-07	9.61E-08	2.33E-09	0.00E+00	9.84E-08
1532	456953.9	3767415	8.86E-07	4.2E-08	0.00E+00	9.28E-07	8.86E-07	4.20E-08	0.00E+00	9.28E-07	2.65E-07	7.54E-09	0.00E+00	2.73E-07	1.01E-07	2.44E-09	0.00E+00	1.03E-07
1533	456983.9	3767415	9.26E-07	4.39E-08	0.00E+00	9.70E-07	9.26E-07	4.39E-08	0.00E+00	9.70E-07	2.77E-07	7.89E-09	0.00E+00	2.85E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
1534	457013.9	3767415	9.66E-07	4.57E-08	0.00E+00	1.01E-06	9.66E-07	4.57E-08	0.00E+00	1.01E-06	2.89E-07	8.22E-09	0.00E+00	2.97E-07	1.10E-07	2.65E-09	0.00E+00	1.12E-07
1535	457043.9	3767415	1E-06	4.75E-08	0.00E+00	1.05E-06	1.00E-06	4.75E-08	0.00E+00	1.05E-06	3.00E-07	8.54E-09	0.00E+00	3.09E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
1536	457073.9	3767415	1.04E-06	4.91E-08	0.00E+00	1.09E-06	1.04E-06	4.91E-08	0.00E+00	1.09E-06	3.11E-07	8.83E-09	0.00E+00	3.19E-07	1.18E-07	2.85E-09	0.00E+00	1.20E-07
1537	457103.9	3767415	1.07E-06	5.05E-08	0.00E+00	1.12E-06	1.07E-06	5.05E-08	0.00E+00	1.12E-06	3.20E-07	9.09E-09	0.00E+00	3.29E-07	1.21E-07	2.93E-09	0.00E+00	1.24E-07

1538	457133.9	3767415	1.09E-06	5.18E-08	0.00E+00	1.15E-06	1.09E-06	5.18E-08	0.00E+00	1.15E-06	3.28E-07	9.32E-09	0.00E+00	3.37E-07	1.24E-07	3.01E-09	0.00E+00	1.27E-07
1539	457163.9	3767415	1.12E-06	5.28E-08	0.00E+00	1.17E-06	1.12E-06	5.28E-08	0.00E+00	1.17E-06	3.34E-07	9.50E-09	0.00E+00	3.44E-07	1.27E-07	3.07E-09	0.00E+00	1.30E-07
1540	457193.9	3767415	1.13E-06	5.36E-08	0.00E+00	1.18E-06	1.13E-06	5.36E-08	0.00E+00	1.18E-06	3.39E-07	9.63E-09	0.00E+00	3.48E-07	1.28E-07	3.11E-09	0.00E+00	1.31E-07
1541	457223.9	3767415	1.14E-06	5.4E-08	0.00E+00	1.20E-06	1.14E-06	5.40E-08	0.00E+00	1.20E-06	3.42E-07	9.71E-09	0.00E+00	3.51E-07	1.29E-07	3.14E-09	0.00E+00	1.33E-07
1542	457253.9	3767415	1.14E-06	5.42E-08	0.00E+00	1.20E-06	1.14E-06	5.42E-08	0.00E+00	1.20E-06	3.43E-07	9.74E-09	0.00E+00	3.52E-07	1.30E-07	3.14E-09	0.00E+00	1.33E-07
1543	457283.9	3767415	1.14E-06	5.4E-08	0.00E+00	1.19E-06	1.14E-06	5.40E-08	0.00E+00	1.19E-06	3.41E-07	9.70E-09	0.00E+00	3.51E-07	1.29E-07	3.13E-09	0.00E+00	1.32E-07
1544	457313.9	3767415	1.13E-06	5.34E-08	0.00E+00	1.18E-06	1.13E-06	5.34E-08	0.00E+00	1.18E-06	3.38E-07	9.61E-09	0.00E+00	3.48E-07	1.28E-07	3.10E-09	0.00E+00	1.31E-07
1545	457343.9	3767415	1.11E-06	5.26E-08	0.00E+00	1.16E-06	1.11E-06	5.26E-08	0.00E+00	1.16E-06	3.32E-07	9.45E-09	0.00E+00	3.42E-07	1.26E-07	3.05E-09	0.00E+00	1.29E-07
1546	457373.9	3767415	1.08E-06	5.13E-08	0.00E+00	1.14E-06	1.08E-06	5.13E-08	0.00E+00	1.14E-06	3.25E-07	9.23E-09	0.00E+00	3.34E-07	1.23E-07	2.98E-09	0.00E+00	1.26E-07
1547	457403.9	3767415	1.05E-06	4.98E-08	0.00E+00	1.10E-06	1.05E-06	4.98E-08	0.00E+00	1.10E-06	3.15E-07	8.96E-09	0.00E+00	3.24E-07	1.19E-07	2.89E-09	0.00E+00	1.22E-07
1548	457433.9	3767415	1.02E-06	4.81E-08	0.00E+00	1.06E-06	1.02E-06	4.81E-08	0.00E+00	1.06E-06	3.04E-07	8.64E-09	0.00E+00	3.13E-07	1.15E-07	2.79E-09	0.00E+00	1.18E-07
1549	457463.9	3767415	9.73E-07	4.61E-08	0.00E+00	1.02E-06	9.73E-07	4.61E-08	0.00E+00	1.02E-06	2.92E-07	8.29E-09	0.00E+00	3.00E-07	1.10E-07	2.68E-09	0.00E+00	1.13E-07
1550	457493.9	3767415	9.28E-07	4.39E-08	0.00E+00	9.72E-07	9.28E-07	4.39E-08	0.00E+00	9.72E-07	2.78E-07	7.90E-09	0.00E+00	2.86E-07	1.05E-07	2.55E-09	0.00E+00	1.08E-07
1551	457523.9	3767415	8.8E-07	4.17E-08	0.00E+00	9.21E-07	8.80E-07	4.17E-08	0.00E+00	9.21E-07	2.64E-07	7.49E-09	0.00E+00	2.71E-07	9.98E-08	2.42E-09	0.00E+00	1.02E-07
1552	457553.9	3767415	8.3E-07	3.93E-08	0.00E+00	8.69E-07	8.30E-07	3.93E-08	0.00E+00	8.69E-07	2.49E-07	7.07E-09	0.00E+00	2.56E-07	9.42E-08	2.28E-09	0.00E+00	9.65E-08
1553	457583.9	3767415	7.8E-07	3.69E-08	0.00E+00	8.17E-07	7.80E-07	3.69E-08	0.00E+00	8.17E-07	2.34E-07	6.64E-09	0.00E+00	2.40E-07	8.85E-08	2.14E-09	0.00E+00	9.07E-08
1554	457613.9	3767415	7.31E-07	3.46E-08	0.00E+00	7.65E-07	7.31E-07	3.46E-08	0.00E+00	7.65E-07	2.19E-07	6.22E-09	0.00E+00	2.25E-07	8.29E-08	2.01E-09	0.00E+00	8.49E-08
1555	457643.9	3767415	6.83E-07	3.23E-08	0.00E+00	7.15E-07	6.83E-07	3.23E-08	0.00E+00	7.15E-07	2.04E-07	5.81E-09	0.00E+00	2.10E-07	7.75E-08	1.88E-09	0.00E+00	7.93E-08
1556	457673.9	3767415	6.37E-07	3.01E-08	0.00E+00	6.67E-07	6.37E-07	3.01E-08	0.00E+00	6.67E-07	1.91E-07	5.42E-09	0.00E+00	1.96E-07	7.22E-08	1.75E-09	0.00E+00	7.40E-08
1557	457703.9	3767415	5.93E-07	2.81E-08	0.00E+00	6.21E-07	5.93E-07	2.81E-08	0.00E+00	6.21E-07	1.78E-07	5.05E-09	0.00E+00	1.83E-07	6.72E-08	1.63E-09	0.00E+00	6.89E-08
1558	457733.9	3767415	5.51E-07	2.61E-08	0.00E+00	5.77E-07	5.51E-07	2.61E-08	0.00E+00	5.77E-07	1.65E-07	4.69E-09	0.00E+00	1.70E-07	6.25E-08	1.51E-09	0.00E+00	6.41E-08
1559	457763.9	3767415	5.13E-07	2.43E-08	0.00E+00	5.37E-07	5.13E-07	2.43E-08	0.00E+00	5.37E-07	1.54E-07	4.37E-09	0.00E+00	1.58E-07	5.82E-08	1.41E-09	0.00E+00	5.96E-08
1560	457793.9	3767415	4.78E-07	2.26E-08	0.00E+00	5.00E-07	4.78E-07	2.26E-08	0.00E+00	5.00E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.42E-08	1.31E-09	0.00E+00	5.55E-08
1561	457823.9	3767415	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
1562	457853.9	3767415	4.15E-07	1.97E-08	0.00E+00	4.35E-07	4.15E-07	1.97E-08	0.00E+00	4.35E-07	1.24E-07	3.54E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.83E-08
1563	457883.9	3767415	3.88E-07	1.84E-08	0.00E+00	4.07E-07	3.88E-07	1.84E-08	0.00E+00	4.07E-07	1.16E-07	3.30E-09	0.00E+00	1.20E-07	4.40E-08	1.07E-09	0.00E+00	4.51E-08
1564	457913.9	3767415	3.63E-07	1.72E-08	0.00E+00	3.81E-07	3.63E-07	1.72E-08	0.00E+00	3.81E-07	1.09E-07	3.09E-09	0.00E+00	1.12E-07	4.12E-08	9.99E-10	0.00E+00	4.22E-08
1565	457943.9	3767415	3.41E-07	1.61E-08	0.00E+00	3.57E-07	3.41E-07	1.61E-08	0.00E+00	3.57E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.87E-08	9.37E-10	0.00E+00	3.96E-08
1566	457973.9	3767415	3.2E-07	1.52E-08	0.00E+00	3.36E-07	3.20E-07	1.52E-08	0.00E+00	3.36E-07	9.60E-08	2.73E-09	0.00E+00	9.87E-08	3.63E-08	8.80E-10	0.00E+00	3.72E-08
1567	458003.9	3767415	3.02E-07	1.43E-08	0.00E+00	3.16E-07	3.02E-07	1.43E-08	0.00E+00	3.16E-07	9.04E-08	2.57E-09	0.00E+00	9.29E-08	3.42E-08	8.29E-10	0.00E+00	3.51E-08
1568	458033.9	3767415	2.85E-07	1.35E-08	0.00E+00	2.98E-07	2.85E-07	1.35E-08	0.00E+00	2.98E-07	8.53E-08	2.42E-09	0.00E+00	8.77E-08	3.23E-08	7.83E-10	0.00E+00	3.31E-08
1569	458063.9	3767415	2.69E-07	1.28E-08	0.00E+00	2.82E-07	2.69E-07	1.28E-08	0.00E+00	2.82E-07	8.07E-08	2.29E-09	0.00E+00	8.30E-08	3.06E-08	7.40E-10	0.00E+00	3.13E-08
1570	458093.9	3767415	2.55E-07	1.21E-08	0.00E+00	2.67E-07	2.55E-07	1.21E-08	0.00E+00	2.67E-07	7.64E-08	2.17E-09	0.00E+00	7.86E-08	2.90E-08	7.01E-10	0.00E+00	2.97E-08
1571	458123.9	3767415	2.42E-07	1.15E-08	0.00E+00	2.54E-07	2.42E-07	1.15E-08	0.00E+00	2.54E-07	7.26E-08	2.06E-09	0.00E+00	7.47E-08	2.75E-08	6.66E-10	0.00E+00	2.82E-08
1572	458153.9	3767415	2.31E-07	1.09E-08	0.00E+00	2.41E-07	2.31E-07	1.09E-08	0.00E+00	2.41E-07	6.91E-08	1.96E-09	0.00E+00	7.10E-08	2.62E-08	6.34E-10	0.00E+00	2.68E-08
1573	458183.9	3767415	2.2E-07	1.04E-08	0.00E+00	2.30E-07	2.20E-07	1.04E-08	0.00E+00	2.30E-07	6.58E-08	1.87E-09	0.00E+00	6.77E-08	2.49E-08	6.04E-10	0.00E+00	2.55E-08
1574	456713.9	3767445	6.04E-07	2.86E-08	0.00E+00	6.32E-07	6.04E-07	2.86E-08	0.00E+00	6.32E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.85E-08	1.66E-09	0.00E+00	7.01E-08
1575	456743.9	3767445	6.37E-07	3.02E-08	0.00E+00	6.67E-07	6.37E-07	3.02E-08	0.00E+00	6.67E-07	1.91E-07	5.42E-09	0.00E+00	1.96E-07	7.23E-08	1.75E-09	0.00E+00	7.40E-08
1576	456773.9	3767445	6.72E-07	3.18E-08	0.00E+00	7.04E-07	6.72E-07	3.18E-08	0.00E+00	7.04E-07	2.01E-07	5.72E-09	0.00E+00	2.07E-07	7.63E-08	1.85E-09	0.00E+00	7.81E-08
1577	456803.9	3767445	7.1E-07	3.36E-08	0.00E+00	7.43E-07	7.10E-07	3.36E-08	0.00E+00	7.43E-07	2.13E-07	6.04E-09	0.00E+00	2.19E-07	8.05E-08	1.95E-09	0.00E+00	8.25E-08
1578	456833.9	3767445	7.49E-07	3.55E-08	0.00E+00	7.84E-07	7.49E-07	3.55E-08	0.00E+00	7.84E-07	2.24E-07	6.38E-09	0.00E+00	2.31E-07	8.50E-08	2.06E-09	0.00E+00	8.70E-08
1579	456863.9	3767445	7.89E-07	3.74E-08	0.00E+00	8.27E-07	7.89E-07	3.74E-08	0.00E+00	8.27E-07	2.36E-07	6.72E-09	0.00E+00	2.43E-07	8.95E-08	2.17E-09	0.00E+00	9.17E-08
1580	456893.9	3767445	8.31E-07	3.93E-08	0.00E+00	8.70E-07	8.31E-07	3.93E-08	0.00E+00	8.70E-07	2.49E-07	7.07E-09	0.00E+00	2.56E-07	9.42E-08	2.28E-09	0.00E+00	9.65E-08
1581	456923.9	3767445	8.73E-07	4.13E-08	0.00E+00	9.14E-07	8.73E-07	4.13E-08	0.00E+00	9.14E-07	2.61E-07	7.43E-09	0.00E+00	2.69E-07	9.90E-08	2.40E-09	0.00E+00	1.01E-07
1582	456953.9	3767445	9.16E-07	4.34E-08	0.00E+00	9.60E-07	9.16E-07	4.34E-08	0.00E+00	9.60E-07	2.74E-07	7.80E-09	0.00E+00	2.82E-07	1.04E-07	2.52E-09	0.00E+00	1.06E-07
1583	456983.9	3767445	9.61E-07	4.55E-08	0.00E+00	1.01E-06	9.61E-07	4.55E-08	0.00E+00	1.01E-06	2.88E-07	8.18E-09	0.00E+00	2.96E-07	1.09E-07	2.64E-09	0.00E+00	1.12E-07
1584	457013.9	3767445	1E-06	4.76E-08	0.00E+00	1.05E-06	1.00E-06	4.76E-08	0.00E+00	1.05E-06	3.01E-07	8.55E-09	0.00E+00	3.09E-07	1.14E-07	2.76E-09	0.00E+00	1.17E-07
1585	457043.9	3767445	1.05E-06	4.96E-08	0.00E+00	1.10E-06	1.05E-06	4.96E-08	0.00E+00	1.10E-06	3.14E-07	8.92E-09	0.00E+00	3.23E-07	1.19E-07	2.88E-09	0.00E+00	1.22E-07
1586	457073.9	3767445	1.09E-06	5.15E-08	0.00E+00	1.14E-06	1.09E-06	5.15E-08	0.00E+00	1.14E-06	3.26E-07	9.26E-09	0.00E+00	3.35E-07	1.23E-07	2.99E-09	0.00E+00	1.26E-07
1587	457103.9	3767445	1.12E-06	5.32E-08	0.00E+00	1.18E-06	1.12E-06	5.32E-08	0.00E+00	1.18E-06	3.36E-07	9.56E-09	0.00E+00	3.46E-07	1.27E-07	3.09E-09	0.00E+00	1.31E-07
1588	457133.9	3767445	1.16E-06	5.47E-08	0.00E+00	1.21E-06	1.16E-06	5.47E-08	0.00E+00	1.21E-06	3.46E-07	9.84E-09	0.00E+00	3.56E-07	1.31E-07	3.18E-09	0.00E+00	1.34E-07
1589	457163.9	3767445	1.18E-06	5.59E-08	0.00E+00	1.24E-06	1.18E-06	5.59E-08	0.00E+00	1.24E-06	3.54E-07	1.01E-08	0.00E+00	3.64E-07	1.34E-07	3.25E-09	0.00E+00	1.37E-07
1590	457193.9	3767445	1.2E-06	5.69E-08	0.00E+00	1.26E-06	1.20E-06	5.69E-08	0.00E+00	1.26E-06	3.60E-07	1.02E-08	0.00E+00	3.70E-07	1.36E-07	3.30E-09	0.00E+00	1.40E-07
1591	457223.9	3767445	1.22E-06	5.76E-08	0.00E+00	1.27E-06	1.22E-06	5.76E-08	0.00E+00	1.27E-06	3.64E-07	1.04E-08	0.00E+00	3.75E-07	1.38E-07	3.34E-09	0.00E+00	1.41E-07
1592	457253.9	3767445	1.22E-06	5.79E-08	0.00E+00	1.28E-06	1.22E-06	5.79E-08	0.00E+00	1.28E-06	3.66E-07	1.04E-08	0.00E+00	3.76E-07	1.39E-07	3.36E-09	0.00E+00	1.42E-07
1593	457283.9	3767445	1.22E-06	5.78E-08	0.00E+00	1.28E-06	1.22E-06	5.78E-08	0.00E+00	1.28E-06	3.65E-07	1.04E-08	0.00E+00	3.76E-07	1.38E-07	3.35E-09	0.00E+00	1.42E-07
1594	457313.9	3767445	1.21E-06	5.73E-08	0.00E+00	1.27E-06	1.21E-06	5.73E-08	0.00E+00	1.27E-06	3.62E-07	1.03E-08	0.00E+00	3.73E-07	1.37E-07	3.33E-09	0.00E+00	1.41E-07
1595	457343.9	3767445	1.19E-06	5.64E-08	0.00E+00	1.25E-06	1.19E-06	5.64E-08	0.00E+00	1.25E-06	3.57E-07	1.01E-08	0.00E+00	3.67E-07	1.35E-07	3.28E-09	0.00E+00	1.39E-07
1596	457373.9	3767445	1.17E-06	5.52E-08	0.00E+00	1.22E-06	1.17E-06	5.52E-08	0.00E+00	1.22E-06	3.49E-07	9.92E-09	0.00E+00	3.59E-07	1.32E-07	3.20E-09	0.00E+00	1.35E-07
1597	457403.9	3767445	1.13E-06	5.36E-08	0.00E+00	1.19E-06	1.13E-06	5.36E-08	0.00E+00	1.19E-06	3.39E-07	9.64E-09	0.00E+00	3.49E-07	1.28E-07	3.11E-09	0.00E+00	1.32E-07
1598	457433.9	3767445	1.09E-06	5.17E-08	0.00E+00	1.14E-06	1.09E-06	5.17E-08	0.00E+00	1.14E-06	3.27E-07	9.30E-09	0.00E+00	3.36E-07	1.24E-07	3.00E-09	0.00E+00	1.27E-07
1599	457463.9	3767445	1.05E-06	4.96E-08	0.00E+00	1.10E-06	1.05E-06	4.96E-08	0.00E+00	1.10E-06	3.14E-07	8.91E-09	0.00E+00	3.23E-07	1.19E-07	2.88E-09	0.00E+00	1.22E-07
1600	457493.9	3767445	9.97E-07	4.72E-08	0.00E+00	1.04E-06	9.97E-07	4.72E-08	0.00E+00	1.04E-06	2.99E-07	8.49E-09	0.00E+00	3.07E-07	1.13E-07	2.74E-09	0.00E+00	1.16E-07
1601	457523.9	3767445	9.45E-07	4.47E-08	0.00E+00	9.89E-07	9.45E-07	4.47E-08	0.00E+00	9.89E-07	2.83E-07	8.04E-09	0.00E+00	2.91E-07	1.07E-07	2.60E-09	0.00E+00	1.10E-07
1602	457553.9	3767445	8.9E-07	4.21E-08	0.00E+00	9.32E-07	8.90E-07	4.21E-08	0.00E+00	9.32E-07	2.67E-07	7.58E-09	0.00E+00	2.74E-07	1.01E-07	2.45E-09	0.00E+00	1.03E-07
1603	457583.9	3767445	8.35E-07	3.95E-08	0.00E+00	8.74E-07	8.35E-07	3.95E-08	0.00E+00	8.74E-07	2.50E-07	7.11E-09	0.00E+00	2.57E-07	9.47E-08	2.29E-09	0.00E+00	9.70E-08
1604	457613.9	3767445	7.81E-07	3.7E-08	0.00E+00	8.17E-07	7.81E-07	3.70E-08	0.00E+00	8.17E-07	2.34E-07	6.65E-09	0.00E+00	2.40E-07	8.86E-08	2.15E-09	0.00E+00	9.07E-08
1605	457643.9	3767445	7.27E-07	3.44E-08	0.00E+00	7.62E-07	7.27E-07	3.44E-08	0.00E+00	7.62E-07	2.18E-07	6.19E-09	0.00E+00	2.24E-07	8.25E-08	2.00E-09	0.00E+00	8.45E-08
1606	457673.9	3767445	6.76E-07	3.2E-08	0.00E+00	7.08E-07	6.76E-07	3.20E-08	0.00E+00	7.08E-07	2.02E-07	5.76E-09	0.00E+00	2.08E-07	7.67E-08	1.86E-09	0.00E+00	7.86E-08
1607	457703.9	3767445	6.28E-07	2.97E-08	0.00E+00	6.57E-07	6.28E-07	2.97E-08	0.00E+00	6.57E-07	1.88E-07	5.34E-09	0.00E+00	1.93E-07	7.12E-08	1.72E-09	0.00E+00	7.29E-08
1608	457733.9	3767445	5.82E-07	2.76E-08	0.00E+00	6.10E-07	5.82E-07	2.76E-08	0.00E+00	6.10E-07	1.74E-07	4.96E-09	0.00E+00	1.79E-07	6.61E-08	1.60E-09	0.00E+00	6.77E-08
1609	457763.9	3767445	5.4E-07	2.56E-08	0.00E+00	5.66E-07	5.40E-07	2.56E-08	0.00E+00	5.66E-07	1.62E-07	4.60E-09	0.00E+00	1.66E-07	6.13E-08	1.48E-09	0.00E+00	6.28E-08
1610	457793.9	3767445	5.01E-07	2.37E-08	0.00E+00	5.25E-07	5.01E-07	2.37E-08	0.00E+00	5.25E-07	1.50E-07	4.27E-09	0.00E+00	1.54E-07	5.69E-08	1.38E-09	0.00E+00	5.83E-08
1611	457823.9	3767445	4.66E-07	2.21E-08	0.00E+00	4.88E-07	4.66E-07	2.21E-08	0.00E+00	4.88E-07	1.40E-07	3.97E-09	0.00E+00	1.44E-07	5.29E-08	1.28E-09	0.00E+00	5.41E-08
1612	457853.9	3767445	4.34E-07	2.05E-08	0.00E+00	4.54E-07	4.34E-07	2.05E-08	0.00E+00	4.54E-07	1.30E-07	3.69E-09	0.00E+00	1.34E-07	4.92E-08	1.19E-09	0.00E+00	5.04E-08
1613	457883.9	3767445	4.05E-07	1.92E-08	0.00E+00	4.24E-07	4.05E-07	1.92E-08	0.00E+00	4.24E-07	1.21E-07	3.44E-09	0.00E+00	1.25E-07	4.59E-08	1.11E-09	0.00E+00	4.70E-08
1614	457913.9	3767445	3.78E-07	1.79E-08	0.00E+00	3.96E-07	3.78E-07	1.79E-08	0.00E+00	3.96E-07	1.13E-07	3.22E-09	0.00E+00	1.16E-07	4.29E-08	1.04E-09	0.00E+00	4.39E-08
1615	457943.9	3767445	3.54E-07	1.68E-08	0.00E+00	3.71E-07	3.54E-07	1.68E-08	0.00E+00	3.71E-07	1.06E-07	3.01E-09	0.00E+00	1.09E-07	4.02E-08	9.73E-10	0.00E+00	4.11E-08
1616	457973.9	3767445	3.32E-07	1.57E-08	0.00E+00	3.48E-07	3.32E-07	1.57E-08	0.00E+00	3.48E-07	9.95E-08	2.83E-09	0.00E+00	1.02E-07	3.77E-08	9.13E-10	0.00E+00	3.86E-08
1617	458003.9	3767445	3.13E-07	1.48E-08	0.00E+00	3.27E-07	3.13E-07	1.48E-08	0.00E+00	3.27E-07	9.36E-08	2.66E-09	0.00E+00	9.63E-08	3.55E-08	8.59E-10	0.00E+00	3.63E-08
1618	458033.9	3767445	2.95E-07	1.39E-08	0.00E+00	3.09E-07	2.95E-07	1.39E-08	0.00E+00	3.09E-07	8.82E-08	2.51E-09	0.00E+00	9.07E-08	3.34E-08	8.10E-10	0.00E+00	3.42E-08
1619	458063.9	3767445	2.78E-07	1.32E-08	0.00E+00	2.92E-07	2.78E-07	1.32E-08	0.00E+00	2.92E-07	8.34E-08	2.37E-09	0.00E+00	8.57E-08	3.16E-08	7.65E-10	0.00E+00	3.23E-08
1620	458093.9	3767445	2.64E-07	1.25E-08	0.00E+00	2.76E-07	2.64E-07	1.25E-08	0.00E+00	2.76E-07	7.89E-08	2.24E-09	0.00E+00	8.12E-08	2.99E-08	7.24E-10	0.00E+00	3.06E-08
1621	458123.9	3767445	2.5E-07	1.18E-08	0.00E+00	2.62E-07	2.50E-07	1.18E-08	0.00E+00	2.62E-07	7.49E-08	2.13E-09	0.00E+00	7.70E-08	2.84E-08	6.87E-10	0.00E+00	2.91E-08
1622	458153.9	3767445	2.38E-07	1.13E-08	0.00E+00	2.49E-07	2.38E-07	1.13E-08	0.00E+00	2.49E-07	7.13E-08	2.03E-09	0.00E+00	7.33E-08	2.70E-08	6.54E-10	0.00E+00	2.76E-08
1623	458183.9	3767445	2.27E-07	1.07E-08	0.00E+00	2.37E-07	2.27E-07	1.07E-08	0.00E+00	2.37E-07	6.79E-08	1.93E-09	0.00E+00	6.98E-08	2.57E-08	6.23E-10	0.00E+00	2.64E-08
1624	458034.7	3768826	6.46E-07	3.06E-08	0.00E+00	6.76E-07	6.46E-07	3.06E-08	0.00E+00	6.76E-07	1.93E-07	5.50E-09	0.00E+00	1.99E-07	7.33E-08	1.77E-09	0.00E+00	7.50E-08
1625	458044.7	3768826	6.54E-07	3.1E-08	0.00E+00	6.85E-07	6.54E-07	3.10E-08	0.00E+00	6.85E-07	1.96E-07	5.57E-09	0.00E+00	2.02E-07	7.42E-08	1.80E-09	0.00E+00	7.60E-08
1626	458054.7	3768826	6.63E-07	3.14E-08	0.00E+00	6.95E-07	6.63E-07	3.14E-08	0.00E+00	6.95E-07	1.99E-07	5.65E-09	0.00E+00	2.04E-07	7.53E-08	1.82E-09	0.00E+00	7.71E-08
1627	458064.7	3768826	6.73E-07	3.19E-08	0.00E+00	7.05E-07	6.73E-07	3.19E-08	0.00E+00	7.05E-07	2.02E-07	5.73E-09	0.00E+00	2.07E-07	7.64E-08	1.85E-09	0.00E+00	7.82E-08
1628	458074.7	3768826	6.83E-07	3.23E-08	0.00E+00	7.15E-07	6.83E-07	3.23E-08	0.00E+00	7.15E-07	2.04E-07	5.81E-09	0.00E+00	2.10E-07	7.74E-08	1.88E-09	0.00E+00	7.93E-08
1629	458084.7	3768826	6.92E-07	3.28E-08	0.00E+00	7.24E-07	6.92E-07	3.28E-08	0.00E+00	7.24E-07	2.07E-07	5.89E-09	0.00E+00	2.13E-07	7.85E-08	1.90E-09	0.00E+00	8.04E-08
1630	458094.7	3768826	7.01E-07	3.32E-08	0.00E+00	7.34E-07	7.01E-07	3.32E-08	0.00E+00	7.34E-07	2.10E-07	5.97E-09	0.00E+00	2.16E-07	7.95E-08	1.93E-09	0.00E+00	8.14E-08
1631	458104.7	3768826	7.09E-07	3.36E-08	0.00E+00	7.43E-07	7.09E-07	3.36E-08	0.00E+00	7.43E-07	2.12E-07	6.04E-09	0.00E+00	2.18E-07	8.05E-08	1.95E-09	0.00E+00	8.24E-08
1632	458144.7	3768826	7.41E-07	3.51E-08	0.00E+00	7.76E-07	7.41E-07	3.51E-08	0.00E+00	7.76E-07	2.22E-07	6.31E-09	0.00E+00	2.28E-07	8.41E-08	2.04E-09	0.00E+00	8.61E-08
1633	458154.7	3768826	7.48E-07	3.54E-08	0.00E+00	7.84E-07	7.48E-07	3.54E-08	0.00E+00	7.84E-07	2.24E-07	6.37E-09	0.00E+00	2.30E-07	8.49E-08	2.06E-09	0.00E+00	8.69E-08
1634	458164.7	3768826	7.55E-07	3.57E-08	0.00E+00	7.91E-07	7.55E-07	3.57E-08	0.00E+00	7.91E-07	2.26E-07	6.43E-09	0.00E+00	2.33E-07	8.57E-08	2.07E-09	0.00E+00	8.77E-08
1635	458174.7	3768826	7.61E-07	3.6E-08	0.00E+00	7.97E-07	7.61E-07	3.60E-08	0.00E+00	7.97E-07	2.28E-07	6.48E-09	0.00E+00	2.34E-07	8.63E-08	2.09E-09	0.00E+00	8.84E-08
1636	458184.7	3768826	7.66E-07	3.63E-08	0.00E+00	8.02E-07	7.66E-07	3.63E-08	0.00E+00	8.02E-07	2.29E-07	6.52E-09	0.00E+00	2.36E-07	8.69E-08	2.10E-09	0.00E+00	8.90E-08
1637	458194.7	3768826	7.71E-07	3.65E-08	0.00E+00	8.07E-07	7.71E-07	3.65E-08	0.00E+00	8.07E-07	2.31E-07	6.56E-09	0.00E+00	2.37E-07	8.74E-08	2.12E-09	0.00E+00	8.95E-08
1638	458204.7	3768826	7.75E-07	3.67E-08	0.00E+00	8.12E-07	7.75E-07	3.67E-08	0.00E+00	8.12E-07	2.32E-07	6.60E-09	0.00E+00	2.39E-07	8.80E-08	2.13E-09	0.00E+00	9.01E-08
1639	458214.7	3768826	7.81E-07	3.7E-08	0.00E+00	8.18E-07	7.81E-07	3.70E-08	0.00E+00	8.18E-07	2.34E-07	6.65E-09	0.00E+00	2.40E-07	8.86E-08	2.15E-09	0.00E+00	9.07E-08
1640	458224.7	3768826	7.85E-07	3.72E-08	0.00E+00	8.22E-07	7.85E-07	3.72E-08	0.00E+00	8.22E-07	2.35E-07	6.68E-09	0.00E+00	2.42E-07	8.91E-08	2.16E-09	0.00E+00	9.12E-08
1641	458234.7	3768826	7.9E-07	3.74E-08	0.00E+00	8.27E-07	7.90E-07	3.74E-08	0.00E+00	8.27E-07	2.36E-07	6.72E-09	0.00E+00	2.43E-07	8.96E-08	2.17E-09	0.00E+00	9.17E-08
1642	458034.7	3768836	6.21E-07	2.94E-08	0.00E+00	6.51E-07	6.21E-07	2.94E-08	0.00E+00	6.51E-07	1.86E-07	5.29E-09	0.00E+00	1.91E-07	7.05E-08	1.71E-09	0.00E+00	7.22E-08
1643	458044.7	3768836	6.3E-07	2.98E-08	0.00E+00	6.60E-07	6.30E-07	2.98E-08	0.00E+00	6.60E-07	1.89E-07	5.36E-09	0.00E+00	1.94E-07	7.15E-08	1.73E-09	0.00E+00	7.32E-08
1644	458054.7	3768836	6.39E-07	3.03E-08	0.00E+00	6.70E-07	6.39E-07	3.03E-08	0.00E+00	6.70E-07	1.91E-07	5.44E-09	0.00E+00	1.97E-07	7.25E-08	1.76E-09	0.00E+00	7.43E-08
1645	458064.7	3768836	6.49E-07	3.07E-08	0.00E+00	6.80E-07	6.49E-07	3.07E-08	0.00E+00	6.80E-07	1.94E-07	5.52E-09	0.00E+00	2.00E-07	7.36E-08	1.78E-09	0.00E+00	7.54E-08
1646	458074.7	3768836	6.58E-07	3.12E-08	0.00E+00	6.89E-07	6.58E-07	3.12E-08	0.00E+00	6.89E-07	1.97E-07	5.60E-09	0.00E+00	2.03E-07	7.47E-08	1.81E-09	0.00E+00	7.65E-08
1647	458084.7	3768836	6.67E-07	3.16E-08	0.00E+00	6.99E-07	6.67E-07	3.16E-08	0.00E+00	6.99E-07	2.00E-07	5.68E-09	0.00E+00	2.06E-07	7.57E-08	1.83E-09	0.00E+00	7.75E-08

1648	458094.7	3768836	6.76E-07	3.2E-08	0.00E+00	7.08E-07	6.76E-07	3.20E-08	0.00E+00	7.08E-07	2.03E-07	5.76E-09	0.00E+00	2.08E-07	7.67E-08	1.86E-09	0.00E+00	7.86E-08
1649	458104.7	3768836	6.85E-07	3.24E-08	0.00E+00	7.17E-07	6.85E-07	3.24E-08	0.00E+00	7.17E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
1650	458144.7	3768836	7.17E-07	3.39E-08	0.00E+00	7.50E-07	7.17E-07	3.39E-08	0.00E+00	7.50E-07	2.15E-07	6.10E-09	0.00E+00	2.21E-07	8.13E-08	1.97E-09	0.00E+00	8.33E-08
1651	458154.7	3768836	7.23E-07	3.42E-08	0.00E+00	7.58E-07	7.23E-07	3.42E-08	0.00E+00	7.58E-07	2.17E-07	6.16E-09	0.00E+00	2.23E-07	8.21E-08	1.99E-09	0.00E+00	8.41E-08
1652	458164.7	3768836	7.3E-07	3.46E-08	0.00E+00	7.64E-07	7.30E-07	3.46E-08	0.00E+00	7.64E-07	2.19E-07	6.21E-09	0.00E+00	2.25E-07	8.28E-08	2.01E-09	0.00E+00	8.48E-08
1653	458174.7	3768836	7.36E-07	3.48E-08	0.00E+00	7.71E-07	7.36E-07	3.48E-08	0.00E+00	7.71E-07	2.20E-07	6.26E-09	0.00E+00	2.27E-07	8.35E-08	2.02E-09	0.00E+00	8.55E-08
1654	458184.7	3768836	7.41E-07	3.51E-08	0.00E+00	7.76E-07	7.41E-07	3.51E-08	0.00E+00	7.76E-07	2.22E-07	6.31E-09	0.00E+00	2.28E-07	8.41E-08	2.04E-09	0.00E+00	8.62E-08
1655	458194.7	3768836	7.47E-07	3.53E-08	0.00E+00	7.82E-07	7.47E-07	3.53E-08	0.00E+00	7.82E-07	2.24E-07	6.36E-09	0.00E+00	2.30E-07	8.47E-08	2.05E-09	0.00E+00	8.68E-08
1656	458204.7	3768836	7.52E-07	3.56E-08	0.00E+00	7.87E-07	7.52E-07	3.56E-08	0.00E+00	7.87E-07	2.25E-07	6.40E-09	0.00E+00	2.32E-07	8.53E-08	2.07E-09	0.00E+00	8.74E-08
1657	458214.7	3768836	7.57E-07	3.58E-08	0.00E+00	7.93E-07	7.57E-07	3.58E-08	0.00E+00	7.93E-07	2.27E-07	6.45E-09	0.00E+00	2.33E-07	8.59E-08	2.08E-09	0.00E+00	8.80E-08
1658	458224.7	3768836	7.62E-07	3.61E-08	0.00E+00	7.98E-07	7.62E-07	3.61E-08	0.00E+00	7.98E-07	2.28E-07	6.49E-09	0.00E+00	2.35E-07	8.65E-08	2.09E-09	0.00E+00	8.86E-08
1659	458234.7	3768836	7.67E-07	3.63E-08	0.00E+00	8.03E-07	7.67E-07	3.63E-08	0.00E+00	8.03E-07	2.30E-07	6.53E-09	0.00E+00	2.36E-07	8.70E-08	2.11E-09	0.00E+00	8.91E-08
1660	458034.7	3768846	5.98E-07	2.83E-08	0.00E+00	6.26E-07	5.98E-07	2.83E-08	0.00E+00	6.26E-07	1.79E-07	5.09E-09	0.00E+00	1.84E-07	6.78E-08	1.64E-09	0.00E+00	6.95E-08
1661	458044.7	3768846	6.07E-07	2.87E-08	0.00E+00	6.36E-07	6.07E-07	2.87E-08	0.00E+00	6.36E-07	1.82E-07	5.17E-09	0.00E+00	1.87E-07	6.89E-08	1.67E-09	0.00E+00	7.05E-08
1662	458054.7	3768846	6.16E-07	2.92E-08	0.00E+00	6.46E-07	6.16E-07	2.92E-08	0.00E+00	6.46E-07	1.85E-07	5.25E-09	0.00E+00	1.90E-07	6.99E-08	1.69E-09	0.00E+00	7.16E-08
1663	458064.7	3768846	6.26E-07	2.96E-08	0.00E+00	6.55E-07	6.26E-07	2.96E-08	0.00E+00	6.55E-07	1.87E-07	5.33E-09	0.00E+00	1.93E-07	7.10E-08	1.72E-09	0.00E+00	7.27E-08
1664	458074.7	3768846	6.35E-07	3.01E-08	0.00E+00	6.65E-07	6.35E-07	3.01E-08	0.00E+00	6.65E-07	1.90E-07	5.41E-09	0.00E+00	1.96E-07	7.20E-08	1.74E-09	0.00E+00	7.38E-08
1665	458084.7	3768846	6.44E-07	3.05E-08	0.00E+00	6.74E-07	6.44E-07	3.05E-08	0.00E+00	6.74E-07	1.93E-07	5.48E-09	0.00E+00	1.98E-07	7.31E-08	1.77E-09	0.00E+00	7.48E-08
1666	458094.7	3768846	6.53E-07	3.09E-08	0.00E+00	6.84E-07	6.53E-07	3.09E-08	0.00E+00	6.84E-07	1.96E-07	5.56E-09	0.00E+00	2.01E-07	7.41E-08	1.79E-09	0.00E+00	7.58E-08
1667	458104.7	3768846	6.61E-07	3.13E-08	0.00E+00	6.93E-07	6.61E-07	3.13E-08	0.00E+00	6.93E-07	1.98E-07	5.63E-09	0.00E+00	2.04E-07	7.50E-08	1.82E-09	0.00E+00	7.68E-08
1668	458144.7	3768846	6.93E-07	3.28E-08	0.00E+00	7.26E-07	6.93E-07	3.28E-08	0.00E+00	7.26E-07	2.07E-07	5.90E-09	0.00E+00	2.13E-07	7.86E-08	1.90E-09	0.00E+00	8.05E-08
1669	458154.7	3768846	6.99E-07	3.31E-08	0.00E+00	7.32E-07	6.99E-07	3.31E-08	0.00E+00	7.32E-07	2.09E-07	5.95E-09	0.00E+00	2.15E-07	7.93E-08	1.92E-09	0.00E+00	8.12E-08
1670	458164.7	3768846	7.05E-07	3.34E-08	0.00E+00	7.39E-07	7.05E-07	3.34E-08	0.00E+00	7.39E-07	2.11E-07	6.01E-09	0.00E+00	2.17E-07	8.00E-08	1.94E-09	0.00E+00	8.20E-08
1671	458174.7	3768846	7.12E-07	3.37E-08	0.00E+00	7.45E-07	7.12E-07	3.37E-08	0.00E+00	7.45E-07	2.13E-07	6.06E-09	0.00E+00	2.19E-07	8.07E-08	1.96E-09	0.00E+00	8.27E-08
1672	458184.7	3768846	7.18E-07	3.4E-08	0.00E+00	7.52E-07	7.18E-07	3.40E-08	0.00E+00	7.52E-07	2.15E-07	6.11E-09	0.00E+00	2.21E-07	8.14E-08	1.97E-09	0.00E+00	8.34E-08
1673	458194.7	3768846	7.23E-07	3.42E-08	0.00E+00	7.58E-07	7.23E-07	3.42E-08	0.00E+00	7.58E-07	2.17E-07	6.16E-09	0.00E+00	2.23E-07	8.21E-08	1.99E-09	0.00E+00	8.41E-08
1674	458204.7	3768846	7.29E-07	3.45E-08	0.00E+00	7.63E-07	7.29E-07	3.45E-08	0.00E+00	7.63E-07	2.18E-07	6.21E-09	0.00E+00	2.25E-07	8.27E-08	2.00E-09	0.00E+00	8.47E-08
1675	458214.7	3768846	7.34E-07	3.48E-08	0.00E+00	7.69E-07	7.34E-07	3.48E-08	0.00E+00	7.69E-07	2.20E-07	6.25E-09	0.00E+00	2.26E-07	8.33E-08	2.02E-09	0.00E+00	8.53E-08
1676	458224.7	3768846	7.4E-07	3.5E-08	0.00E+00	7.75E-07	7.40E-07	3.50E-08	0.00E+00	7.75E-07	2.22E-07	6.30E-09	0.00E+00	2.28E-07	8.39E-08	2.03E-09	0.00E+00	8.59E-08
1677	458234.7	3768846	7.44E-07	3.52E-08	0.00E+00	7.80E-07	7.44E-07	3.52E-08	0.00E+00	7.80E-07	2.23E-07	6.34E-09	0.00E+00	2.29E-07	8.44E-08	2.05E-09	0.00E+00	8.65E-08
1678	458034.7	3768856	5.76E-07	2.73E-08	0.00E+00	6.03E-07	5.76E-07	2.73E-08	0.00E+00	6.03E-07	1.72E-07	4.90E-09	0.00E+00	1.77E-07	6.53E-08	1.58E-09	0.00E+00	6.69E-08
1679	458044.7	3768856	5.85E-07	2.77E-08	0.00E+00	6.13E-07	5.85E-07	2.77E-08	0.00E+00	6.13E-07	1.75E-07	4.98E-09	0.00E+00	1.80E-07	6.64E-08	1.61E-09	0.00E+00	6.80E-08
1680	458054.7	3768856	5.94E-07	2.81E-08	0.00E+00	6.22E-07	5.94E-07	2.81E-08	0.00E+00	6.22E-07	1.78E-07	5.06E-09	0.00E+00	1.83E-07	6.74E-08	1.63E-09	0.00E+00	6.91E-08
1681	458064.7	3768856	6.04E-07	2.86E-08	0.00E+00	6.32E-07	6.04E-07	2.86E-08	0.00E+00	6.32E-07	1.81E-07	5.14E-09	0.00E+00	1.86E-07	6.85E-08	1.66E-09	0.00E+00	7.01E-08
1682	458074.7	3768856	6.13E-07	2.9E-08	0.00E+00	6.42E-07	6.13E-07	2.90E-08	0.00E+00	6.42E-07	1.83E-07	5.21E-09	0.00E+00	1.89E-07	6.95E-08	1.68E-09	0.00E+00	7.12E-08
1683	458084.7	3768856	6.21E-07	2.94E-08	0.00E+00	6.51E-07	6.21E-07	2.94E-08	0.00E+00	6.51E-07	1.86E-07	5.29E-09	0.00E+00	1.91E-07	7.05E-08	1.71E-09	0.00E+00	7.22E-08
1684	458094.7	3768856	6.3E-07	2.98E-08	0.00E+00	6.60E-07	6.30E-07	2.98E-08	0.00E+00	6.60E-07	1.89E-07	5.36E-09	0.00E+00	1.94E-07	7.15E-08	1.73E-09	0.00E+00	7.32E-08
1685	458104.7	3768856	6.39E-07	3.02E-08	0.00E+00	6.69E-07	6.39E-07	3.02E-08	0.00E+00	6.69E-07	1.91E-07	5.44E-09	0.00E+00	1.97E-07	7.25E-08	1.76E-09	0.00E+00	7.42E-08
1686	458144.7	3768856	6.7E-07	3.17E-08	0.00E+00	7.01E-07	6.70E-07	3.17E-08	0.00E+00	7.01E-07	2.01E-07	5.70E-09	0.00E+00	2.06E-07	7.60E-08	1.84E-09	0.00E+00	7.78E-08
1687	458154.7	3768856	6.76E-07	3.2E-08	0.00E+00	7.08E-07	6.76E-07	3.20E-08	0.00E+00	7.08E-07	2.02E-07	5.75E-09	0.00E+00	2.08E-07	7.67E-08	1.86E-09	0.00E+00	7.85E-08
1688	458164.7	3768856	6.82E-07	3.23E-08	0.00E+00	7.14E-07	6.82E-07	3.23E-08	0.00E+00	7.14E-07	2.04E-07	5.80E-09	0.00E+00	2.10E-07	7.73E-08	1.87E-09	0.00E+00	7.92E-08
1689	458174.7	3768856	6.88E-07	3.26E-08	0.00E+00	7.21E-07	6.88E-07	3.26E-08	0.00E+00	7.21E-07	2.06E-07	5.86E-09	0.00E+00	2.12E-07	7.81E-08	1.89E-09	0.00E+00	7.99E-08
1690	458184.7	3768856	6.95E-07	3.29E-08	0.00E+00	7.27E-07	6.95E-07	3.29E-08	0.00E+00	7.27E-07	2.08E-07	5.91E-09	0.00E+00	2.14E-07	7.88E-08	1.91E-09	0.00E+00	8.07E-08
1691	458194.7	3768856	7.01E-07	3.32E-08	0.00E+00	7.34E-07	7.01E-07	3.32E-08	0.00E+00	7.34E-07	2.10E-07	5.97E-09	0.00E+00	2.16E-07	7.95E-08	1.93E-09	0.00E+00	8.14E-08
1692	458204.7	3768856	7.07E-07	3.35E-08	0.00E+00	7.40E-07	7.07E-07	3.35E-08	0.00E+00	7.40E-07	2.12E-07	6.02E-09	0.00E+00	2.18E-07	8.02E-08	1.94E-09	0.00E+00	8.21E-08
1693	458214.7	3768856	7.12E-07	3.37E-08	0.00E+00	7.46E-07	7.12E-07	3.37E-08	0.00E+00	7.46E-07	2.13E-07	6.06E-09	0.00E+00	2.19E-07	8.08E-08	1.96E-09	0.00E+00	8.28E-08
1694	458224.7	3768856	7.18E-07	3.4E-08	0.00E+00	7.52E-07	7.18E-07	3.40E-08	0.00E+00	7.52E-07	2.15E-07	6.11E-09	0.00E+00	2.21E-07	8.14E-08	1.97E-09	0.00E+00	8.34E-08
1695	458234.7	3768856	7.23E-07	3.42E-08	0.00E+00	7.57E-07	7.23E-07	3.42E-08	0.00E+00	7.57E-07	2.16E-07	6.15E-09	0.00E+00	2.23E-07	8.20E-08	1.99E-09	0.00E+00	8.40E-08
1696	458034.7	3768866	5.55E-07	2.63E-08	0.00E+00	5.81E-07	5.55E-07	2.63E-08	0.00E+00	5.81E-07	1.66E-07	4.72E-09	0.00E+00	1.71E-07	6.30E-08	1.52E-09	0.00E+00	6.45E-08
1697	458044.7	3768866	5.64E-07	2.67E-08	0.00E+00	5.91E-07	5.64E-07	2.67E-08	0.00E+00	5.91E-07	1.69E-07	4.80E-09	0.00E+00	1.74E-07	6.40E-08	1.55E-09	0.00E+00	6.55E-08
1698	458054.7	3768866	5.73E-07	2.71E-08	0.00E+00	6.00E-07	5.73E-07	2.71E-08	0.00E+00	6.00E-07	1.72E-07	4.88E-09	0.00E+00	1.77E-07	6.50E-08	1.58E-09	0.00E+00	6.66E-08
1699	458064.7	3768866	5.82E-07	2.76E-08	0.00E+00	6.10E-07	5.82E-07	2.76E-08	0.00E+00	6.10E-07	1.74E-07	4.96E-09	0.00E+00	1.79E-07	6.61E-08	1.60E-09	0.00E+00	6.77E-08
1700	458074.7	3768866	5.91E-07	2.8E-08	0.00E+00	6.19E-07	5.91E-07	2.80E-08	0.00E+00	6.19E-07	1.77E-07	5.03E-09	0.00E+00	1.82E-07	6.71E-08	1.62E-09	0.00E+00	6.87E-08
1701	458084.7	3768866	6E-07	2.84E-08	0.00E+00	6.28E-07	6.00E-07	2.84E-08	0.00E+00	6.28E-07	1.80E-07	5.10E-09	0.00E+00	1.85E-07	6.80E-08	1.65E-09	0.00E+00	6.97E-08
1702	458094.7	3768866	6.08E-07	2.88E-08	0.00E+00	6.37E-07	6.08E-07	2.88E-08	0.00E+00	6.37E-07	1.82E-07	5.17E-09	0.00E+00	1.87E-07	6.90E-08	1.67E-09	0.00E+00	7.06E-08
1703	458104.7	3768866	6.16E-07	2.92E-08	0.00E+00	6.45E-07	6.16E-07	2.92E-08	0.00E+00	6.45E-07	1.84E-07	5.24E-09	0.00E+00	1.90E-07	6.99E-08	1.69E-09	0.00E+00	7.16E-08
1704	458144.7	3768866	6.47E-07	3.06E-08	0.00E+00	6.77E-07	6.47E-07	3.06E-08	0.00E+00	6.77E-07	1.94E-07	5.51E-09	0.00E+00	1.99E-07	7.34E-08	1.78E-09	0.00E+00	7.52E-08
1705	458154.7	3768866	6.53E-07	3.09E-08	0.00E+00	6.84E-07	6.53E-07	3.09E-08	0.00E+00	6.84E-07	1.96E-07	5.56E-09	0.00E+00	2.01E-07	7.41E-08	1.80E-09	0.00E+00	7.59E-08
1706	458164.7	3768866	6.6E-07	3.12E-08	0.00E+00	6.91E-07	6.60E-07	3.12E-08	0.00E+00	6.91E-07	1.98E-07	5.62E-09	0.00E+00	2.03E-07	7.48E-08	1.81E-09	0.00E+00	7.66E-08
1707	458174.7	3768866	6.66E-07	3.15E-08	0.00E+00	6.98E-07	6.66E-07	3.15E-08	0.00E+00	6.98E-07	1.99E-07	5.67E-09	0.00E+00	2.05E-07	7.56E-08	1.83E-09	0.00E+00	7.74E-08
1708	458184.7	3768866	6.73E-07	3.19E-08	0.00E+00	7.05E-07	6.73E-07	3.19E-08	0.00E+00	7.05E-07	2.01E-07	5.73E-09	0.00E+00	2.07E-07	7.63E-08	1.85E-09	0.00E+00	7.82E-08
1709	458194.7	3768866	6.79E-07	3.21E-08	0.00E+00	7.11E-07	6.79E-07	3.21E-08	0.00E+00	7.11E-07	2.03E-07	5.78E-09	0.00E+00	2.09E-07	7.70E-08	1.87E-09	0.00E+00	7.89E-08
1710	458204.7	3768866	6.85E-07	3.24E-08	0.00E+00	7.17E-07	6.85E-07	3.24E-08	0.00E+00	7.17E-07	2.05E-07	5.83E-09	0.00E+00	2.11E-07	7.77E-08	1.88E-09	0.00E+00	7.96E-08
1711	458214.7	3768866	6.9E-07	3.27E-08	0.00E+00	7.23E-07	6.90E-07	3.27E-08	0.00E+00	7.23E-07	2.07E-07	5.88E-09	0.00E+00	2.13E-07	7.83E-08	1.90E-09	0.00E+00	8.02E-08
1712	458224.7	3768866	6.96E-07	3.29E-08	0.00E+00	7.28E-07	6.96E-07	3.29E-08	0.00E+00	7.28E-07	2.08E-07	5.92E-09	0.00E+00	2.14E-07	7.89E-08	1.91E-09	0.00E+00	8.08E-08
1713	458234.7	3768866	7.01E-07	3.32E-08	0.00E+00	7.34E-07	7.01E-07	3.32E-08	0.00E+00	7.34E-07	2.10E-07	5.96E-09	0.00E+00	2.16E-07	7.95E-08	1.93E-09	0.00E+00	8.14E-08
1714	458034.7	3768876	5.35E-07	2.53E-08	0.00E+00	5.60E-07	5.35E-07	2.53E-08	0.00E+00	5.60E-07	1.60E-07	4.56E-09	0.00E+00	1.65E-07	6.07E-08	1.47E-09	0.00E+00	6.22E-08
1715	458044.7	3768876	5.44E-07	2.58E-08	0.00E+00	5.70E-07	5.44E-07	2.58E-08	0.00E+00	5.70E-07	1.63E-07	4.63E-09	0.00E+00	1.68E-07	6.17E-08	1.50E-09	0.00E+00	6.32E-08
1716	458054.7	3768876	5.53E-07	2.62E-08	0.00E+00	5.79E-07	5.53E-07	2.62E-08	0.00E+00	5.79E-07	1.66E-07	4.71E-09	0.00E+00	1.70E-07	6.27E-08	1.52E-09	0.00E+00	6.43E-08
1717	458064.7	3768876	5.62E-07	2.66E-08	0.00E+00	5.88E-07	5.62E-07	2.66E-08	0.00E+00	5.88E-07	1.68E-07	4.78E-09	0.00E+00	1.73E-07	6.37E-08	1.54E-09	0.00E+00	6.53E-08
1718	458074.7	3768876	5.71E-07	2.7E-08	0.00E+00	5.98E-07	5.71E-07	2.70E-08	0.00E+00	5.98E-07	1.71E-07	4.86E-09	0.00E+00	1.76E-07	6.47E-08	1.57E-09	0.00E+00	6.63E-08
1719	458084.7	3768876	5.79E-07	2.74E-08	0.00E+00	6.06E-07	5.79E-07	2.74E-08	0.00E+00	6.06E-07	1.73E-07	4.93E-09	0.00E+00	1.78E-07	6.57E-08	1.59E-09	0.00E+00	6.72E-08
1720	458094.7	3768876	5.86E-07	2.78E-08	0.00E+00	6.14E-07	5.86E-07	2.78E-08	0.00E+00	6.14E-07	1.76E-07	4.99E-09	0.00E+00	1.81E-07	6.65E-08	1.61E-09	0.00E+00	6.81E-08
1721	458104.7	3768876	5.94E-07	2.81E-08	0.00E+00	6.22E-07	5.94E-07	2.81E-08	0.00E+00	6.22E-07	1.78E-07	5.05E-09	0.00E+00	1.83E-07	6.74E-08	1.63E-09	0.00E+00	6.90E-08
1722	458144.7	3768876	6.25E-07	2.96E-08	0.00E+00	6.54E-07	6.25E-07	2.96E-08	0.00E+00	6.54E-07	1.87E-07	5.32E-09	0.00E+00	1.92E-07	7.09E-08	1.72E-09	0.00E+00	7.26E-08
1723	458154.7	3768876	6.31E-07	2.99E-08	0.00E+00	6.61E-07	6.31E-07	2.99E-08	0.00E+00	6.61E-07	1.89E-07	5.38E-09	0.00E+00	1.95E-07	7.16E-08	1.74E-09	0.00E+00	7.34E-08
1724	458164.7	3768876	6.38E-07	3.02E-08	0.00E+00	6.68E-07	6.38E-07	3.02E-08	0.00E+00	6.68E-07	1.91E-07	5.43E-09	0.00E+00	1.97E-07	7.24E-08	1.75E-09	0.00E+00	7.42E-08
1725	458174.7	3768876	6.45E-07	3.05E-08	0.00E+00	6.75E-07	6.45E-07	3.05E-08	0.00E+00	6.75E-07	1.93E-07	5.49E-09	0.00E+00	1.99E-07	7.32E-08	1.77E-09	0.00E+00	7.49E-08
1726	458184.7	3768876	6.52E-07	3.08E-08	0.00E+00	6.82E-07	6.52E-07	3.08E-08	0.00E+00	6.82E-07	1.95E-07	5.55E-09	0.00E+00	2.01E-07	7.39E-08	1.79E-09	0.00E+00	7.57E-08
1727	458194.7	3768876	6.58E-07	3.12E-08	0.00E+00	6.89E-07	6.58E-07	3.12E-08	0.00E+00	6.89E-07	1.97E-07	5.60E-09	0.00E+00	2.03E-07	7.46E-08	1.81E-09	0.00E+00	7.65E-08
1728	458204.7	3768876	6.64E-07	3.14E-08	0.00E+00	6.95E-07	6.64E-07	3.14E-08	0.00E+00	6.95E-07	1.99E-07	5.65E-09	0.00E+00	2.04E-07	7.53E-08	1.82E-09	0.00E+00	7.71E-08
1729	458214.7	3768876	6.69E-07	3.17E-08	0.00E+00	7.01E-07	6.69E-07	3.17E-08	0.00E+00	7.01E-07	2.00E-07	5.69E-09	0.00E+00	2.06E-07	7.59E-08	1.84E-09	0.00E+00	7.77E-08
1730	458224.7	3768876	6.74E-07	3.19E-08	0.00E+00	7.06E-07	6.74E-07	3.19E-08	0.00E+00	7.06E-07	2.02E-07	5.74E-09	0.00E+00	2.08E-07	7.65E-08	1.85E-09	0.00E+00	7.83E-08
1731	458234.7	3768876	6.79E-07	3.21E-08	0.00E+00	7.11E-07	6.79E-07	3.21E-08	0.00E+00	7.11E-07	2.03E-07	5.78E-09	0.00E+00	2.09E-07	7.70E-08	1.87E-09	0.00E+00	7.89E-08
1732	458034.7	3768886	5.16E-07	2.44E-08	0.00E+00	5.41E-07	5.16E-07	2.44E-08	0.00E+00	5.41E-07	1.55E-07	4.39E-09	0.00E+00	1.59E-07	5.86E-08	1.42E-09	0.00E+00	6.00E-08
1733	458044.7	3768886	5.25E-07	2.49E-08	0.00E+00	5.50E-07	5.25E-07	2.49E-08	0.00E+00	5.50E-07	1.57E-07	4.47E-09	0.00E+00	1.62E-07	5.96E-08	1.44E-09	0.00E+00	6.10E-08
1734	458054.7	3768886	5.34E-07	2.53E-08	0.00E+00	5.59E-07	5.34E-07	2.53E-08	0.00E+00	5.59E-07	1.60E-07	4.54E-09	0.00E+00	1.64E-07	6.05E-08	1.47E-09	0.00E+00	6.20E-08
1735	458064.7	3768886	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.62E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
1736	458074.7	3768886	5.51E-07	2.61E-08	0.00E+00	5.77E-07	5.51E-07	2.61E-08	0.00E+00	5.77E-07	1.65E-07	4.69E-09	0.00E+00	1.70E-07	6.25E-08	1.51E-09	0.00E+00	6.40E-08
1737	458084.7	3768886	5.59E-07	2.64E-08	0.00E+00	5.85E-07	5.59E-07	2.64E-08	0.00E+00	5.85E-07	1.67E-07	4.76E-09	0.00E+00	1.72E-07	6.34E-08	1.54E-09	0.00E+00	6.49E-08
1738	458094.7	3768886	5.66E-07	2.68E-08	0.00E+00	5.92E-07	5.66E-07	2.68E-08	0.00E+00	5.92E-07	1.69E-07	4.81E-09	0.00E+00	1.74E-07	6.42E-08	1.55E-09	0.00E+00	6.57E-08
1739	458104.7	3768886	5.72E-07	2.71E-08	0.00E+00	6.00E-07	5.72E-07	2.71E-08	0.00E+00	6.00E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.49E-08	1.57E-09	0.00E+00	6.65E-08
1740	458144.7	3768886	6.03E-07	2.86E-08	0.00E+00	6.32E-07	6.03E-07	2.86E-08	0.00E+00	6.32E-07	1.81E-07	5.13E-09	0.00E+00	1.86E-07	6.84E-08	1.66E-09	0.00E+00	7.01E-08
1741	458154.7	3768886	6.1E-07	2.89E-08	0.00E+00	6.39E-07	6.10E-07	2.89E-08	0.00E+00	6.39E-07	1.83E-07	5.20E-09	0.00E+00	1.88E-07	6.93E-08	1.68E-09	0.00E+00	7.09E-08
1742	458164.7	3768886	6.17E-07	2.92E-08	0.00E+00	6.47E-07	6.17E-07	2.92E-08	0.00E+00	6.47E-07	1.85E-07	5.26E-09	0.00E+00	1.90E-07	7.01E-08	1.70E-09	0.00E+00	7.18E-08
1743	458174.7	3768886	6.24E-07	2.96E-08	0.00E+00	6.54E-07	6.24E-07	2.96E-08	0.00E+00	6.54E-07	1.87E-07	5.32E-09	0.00E+00	1.92E-07	7.08E-08	1.72E-09	0.00E+00	7.26E-08
1744	458184.7	3768886	6.31E-07	2.99E-08	0.00E+00	6.61E-07	6.31E-07	2.99E-08	0.00E+00	6.61E-07	1.89E-07	5.37E-09	0.00E+00	1.94E-07	7.16E-08	1.73E-09	0.00E+00	7.33E-08
1745	458194.7	3768886	6.38E-07	3.02E-08	0.00E+00	6.68E-07	6.38E-07	3.02E-08	0.00E+00	6.68E-07	1.91E-07	5.43E-09	0.00E+00	1.96E-07	7.23E-08	1.75E-09	0.00E+00	7.41E-08
1746	458204.7	3768886	6.43E-07	3.05E-08	0.00E+00	6.74E-07	6.43E-07	3.05E-08	0.00E+00	6.74E-07	1.93E-07	5.48E-09	0.00E+00	1.98E-07	7.30E-08	1.77E-09	0.00E+00	7.47E-08
1747	458214.7	3768886	6.48E-07	3.07E-08	0.00E+00	6.79E-07	6.48E-07	3.07E-08	0.00E+00	6.79E-07	1.94E-07	5.52E-09	0.00E+00	2.00E-07	7.35E-08	1.78E-09	0.00E+00	7.53E-08
1748	458224.7	3768886	6.53E-07	3.09E-08	0.00E+00	6.84E-07	6.53E-07	3.09E-08	0.00E+00	6.84E-07	1.96E-07	5.56E-09	0.00E+00	2.01E-07	7.41E-08	1.79E-09	0.00E+00	7.59E-08
1749	458234.7	3768886	6.58E-07	3.11E-08	0.00E+00	6.89E-07	6.58E-07	3.11E-08	0.00E+00	6.89E-07	1.97E-07	5.60E-09	0.00E+00	2.03E-07	7.46E-08	1.81E-09	0.00E+00	7.64E-08
1750	458034.7	3768896	4.98E-07	2.36E-08	0.00E+00	5.21E-07	4.98E-07	2.36E-08	0.00E+00	5.21E-07	1.49E-07	4.24E-09	0.00E+00	1.53E-07	5.64E-08	1.37E-09	0.00E+00	5.78E-08
1751	458044.7	3768896	5.06E-07	2.39E-08	0.00E+00	5.30E-07	5.06E-07	2.39E-08	0.00E+00	5.30E-07	1.51E-07	4.30E-09	0.00E+00	1.56E-07	5.74E-08	1.39E-09	0.00E+00	5.88E-08
1752	458054.7	3768896	5.14E-07	2.43E-08	0.00E+00	5.38E-07	5.14E-07	2.43E-08	0.00E+00	5.38E-07	1.54E-07	4.37E-09	0.00E+00	1.58E-07	5.83E-08	1.41E-09	0.00E+00	5.97E-08
1753	458064.7	3768896	5.22E-07	2.47E-08	0.00E+00	5.47E-07	5.22E-07	2.47E-08	0.00E+00	5.47E-07	1.56E-07	4.45E-09	0.00E+00	1.61E-07	5.93E-08	1.44E-09	0.00E+00	6.07E-08
1754	458074.7	3768896	5.31E-07	2.51E-08	0.00E+00	5.56E-07	5.31E-07	2.51E-08	0.00E+00	5.56E-07	1.59E-07	4.52E-09	0.00E+00	1.63E-07	6.02E-08	1.46E-09	0.00E+00	6.17E-08
1755	458084.7	3768896	5.38E-07	2.55E-08	0.00E+00	5.64E-07	5.38E-07	2.55E-08	0.00E+00	5.64E-07	1.61E-07	4.58E-09	0.00E+00	1.66E-07	6.11E-08	1.48E-09	0.00E+00	6.26E-08
1756	458094.7	3768896	5.46E-07	2.58E-08	0.00E+00	5.72E-07	5.46E-07	2.58E-08	0.00E+00	5.72E-07	1.63E-07	4.65E-09	0.00E+00	1.68E-07	6.19E-08	1.50E-09	0.00E+00	6.34E-08
1757	458104.7	3768896	5.53E-07	2.62E-08	0.00E+00	5.79E-07	5.53E-07	2.62E-08	0.00E+00	5.79E-07	1.66E-07	4.71E-09	0.00E+00	1.70E-07	6.27E-08	1.52E-09	0.00E+00	6.42E-08

1758	458144.7	3768896	5.83E-07	2.76E-08	0.00E+00	6.11E-07	5.83E-07	2.76E-08	0.00E+00	6.11E-07	1.75E-07	4.97E-09	0.00E+00	1.80E-07	6.62E-08	1.60E-09	0.00E+00	6.78E-08
1759	458154.7	3768896	5.91E-07	2.8E-08	0.00E+00	6.19E-07	5.91E-07	2.80E-08	0.00E+00	6.19E-07	1.77E-07	5.03E-09	0.00E+00	1.82E-07	6.70E-08	1.62E-09	0.00E+00	6.86E-08
1760	458164.7	3768896	5.98E-07	2.83E-08	0.00E+00	6.26E-07	5.98E-07	2.83E-08	0.00E+00	6.26E-07	1.79E-07	5.09E-09	0.00E+00	1.84E-07	6.78E-08	1.64E-09	0.00E+00	6.95E-08
1761	458174.7	3768896	6.04E-07	2.86E-08	0.00E+00	6.33E-07	6.04E-07	2.86E-08	0.00E+00	6.33E-07	1.81E-07	5.15E-09	0.00E+00	1.86E-07	6.86E-08	1.66E-09	0.00E+00	7.02E-08
1762	458184.7	3768896	6.11E-07	2.89E-08	0.00E+00	6.40E-07	6.11E-07	2.89E-08	0.00E+00	6.40E-07	1.83E-07	5.20E-09	0.00E+00	1.88E-07	6.93E-08	1.68E-09	0.00E+00	7.10E-08
1763	458194.7	3768896	6.17E-07	2.92E-08	0.00E+00	6.46E-07	6.17E-07	2.92E-08	0.00E+00	6.46E-07	1.85E-07	5.25E-09	0.00E+00	1.90E-07	7.00E-08	1.70E-09	0.00E+00	7.17E-08
1764	458204.7	3768896	6.23E-07	2.95E-08	0.00E+00	6.52E-07	6.23E-07	2.95E-08	0.00E+00	6.52E-07	1.86E-07	5.30E-09	0.00E+00	1.92E-07	7.06E-08	1.71E-09	0.00E+00	7.24E-08
1765	458214.7	3768896	6.28E-07	2.97E-08	0.00E+00	6.58E-07	6.28E-07	2.97E-08	0.00E+00	6.58E-07	1.88E-07	5.35E-09	0.00E+00	1.93E-07	7.12E-08	1.73E-09	0.00E+00	7.30E-08
1766	458224.7	3768896	6.33E-07	3E-08	0.00E+00	6.63E-07	6.33E-07	3.00E-08	0.00E+00	6.63E-07	1.90E-07	5.39E-09	0.00E+00	1.95E-07	7.18E-08	1.74E-09	0.00E+00	7.36E-08
1767	458234.7	3768896	6.38E-07	3.02E-08	0.00E+00	6.69E-07	6.38E-07	3.02E-08	0.00E+00	6.69E-07	1.91E-07	5.43E-09	0.00E+00	1.97E-07	7.24E-08	1.75E-09	0.00E+00	7.42E-08
1768	458034.7	3768906	4.8E-07	2.27E-08	0.00E+00	5.02E-07	4.80E-07	2.27E-08	0.00E+00	5.02E-07	1.44E-07	4.08E-09	0.00E+00	1.48E-07	5.44E-08	1.32E-09	0.00E+00	5.57E-08
1769	458044.7	3768906	4.87E-07	2.31E-08	0.00E+00	5.10E-07	4.87E-07	2.31E-08	0.00E+00	5.10E-07	1.46E-07	4.15E-09	0.00E+00	1.50E-07	5.53E-08	1.34E-09	0.00E+00	5.66E-08
1770	458054.7	3768906	4.95E-07	2.34E-08	0.00E+00	5.18E-07	4.95E-07	2.34E-08	0.00E+00	5.18E-07	1.48E-07	4.21E-09	0.00E+00	1.52E-07	5.61E-08	1.36E-09	0.00E+00	5.75E-08
1771	458064.7	3768906	5.03E-07	2.38E-08	0.00E+00	5.27E-07	5.03E-07	2.38E-08	0.00E+00	5.27E-07	1.51E-07	4.28E-09	0.00E+00	1.55E-07	5.71E-08	1.38E-09	0.00E+00	5.85E-08
1772	458074.7	3768906	5.11E-07	2.42E-08	0.00E+00	5.35E-07	5.11E-07	2.42E-08	0.00E+00	5.35E-07	1.53E-07	4.35E-09	0.00E+00	1.57E-07	5.80E-08	1.40E-09	0.00E+00	5.94E-08
1773	458084.7	3768906	5.19E-07	2.46E-08	0.00E+00	5.44E-07	5.19E-07	2.46E-08	0.00E+00	5.44E-07	1.55E-07	4.42E-09	0.00E+00	1.60E-07	5.89E-08	1.43E-09	0.00E+00	6.03E-08
1774	458094.7	3768906	5.27E-07	2.49E-08	0.00E+00	5.52E-07	5.27E-07	2.49E-08	0.00E+00	5.52E-07	1.58E-07	4.48E-09	0.00E+00	1.62E-07	5.97E-08	1.45E-09	0.00E+00	6.12E-08
1775	458104.7	3768906	5.34E-07	2.53E-08	0.00E+00	5.59E-07	5.34E-07	2.53E-08	0.00E+00	5.59E-07	1.60E-07	4.55E-09	0.00E+00	1.65E-07	6.06E-08	1.47E-09	0.00E+00	6.21E-08
1776	458144.7	3768906	5.64E-07	2.67E-08	0.00E+00	5.91E-07	5.64E-07	2.67E-08	0.00E+00	5.91E-07	1.69E-07	4.80E-09	0.00E+00	1.74E-07	6.40E-08	1.55E-09	0.00E+00	6.56E-08
1777	458154.7	3768906	5.72E-07	2.71E-08	0.00E+00	5.99E-07	5.72E-07	2.71E-08	0.00E+00	5.99E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.48E-08	1.57E-09	0.00E+00	6.64E-08
1778	458164.7	3768906	5.79E-07	2.74E-08	0.00E+00	6.06E-07	5.79E-07	2.74E-08	0.00E+00	6.06E-07	1.73E-07	4.93E-09	0.00E+00	1.78E-07	6.56E-08	1.59E-09	0.00E+00	6.72E-08
1779	458174.7	3768906	5.85E-07	2.77E-08	0.00E+00	6.13E-07	5.85E-07	2.77E-08	0.00E+00	6.13E-07	1.75E-07	4.98E-09	0.00E+00	1.80E-07	6.64E-08	1.61E-09	0.00E+00	6.80E-08
1780	458184.7	3768906	5.91E-07	2.8E-08	0.00E+00	6.19E-07	5.91E-07	2.80E-08	0.00E+00	6.19E-07	1.77E-07	5.03E-09	0.00E+00	1.82E-07	6.71E-08	1.62E-09	0.00E+00	6.87E-08
1781	458194.7	3768906	5.97E-07	2.83E-08	0.00E+00	6.25E-07	5.97E-07	2.83E-08	0.00E+00	6.25E-07	1.79E-07	5.08E-09	0.00E+00	1.84E-07	6.77E-08	1.64E-09	0.00E+00	6.94E-08
1782	458204.7	3768906	6.03E-07	2.85E-08	0.00E+00	6.31E-07	6.03E-07	2.85E-08	0.00E+00	6.31E-07	1.80E-07	5.13E-09	0.00E+00	1.86E-07	6.84E-08	1.66E-09	0.00E+00	7.00E-08
1783	458214.7	3768906	6.08E-07	2.88E-08	0.00E+00	6.37E-07	6.08E-07	2.88E-08	0.00E+00	6.37E-07	1.82E-07	5.18E-09	0.00E+00	1.87E-07	6.90E-08	1.67E-09	0.00E+00	7.07E-08
1784	458224.7	3768906	6.14E-07	2.91E-08	0.00E+00	6.43E-07	6.14E-07	2.91E-08	0.00E+00	6.43E-07	1.84E-07	5.23E-09	0.00E+00	1.89E-07	6.97E-08	1.69E-09	0.00E+00	7.13E-08
1785	458234.7	3768906	6.19E-07	2.93E-08	0.00E+00	6.49E-07	6.19E-07	2.93E-08	0.00E+00	6.49E-07	1.86E-07	5.27E-09	0.00E+00	1.91E-07	7.03E-08	1.70E-09	0.00E+00	7.20E-08
1786	458034.7	3768916	4.62E-07	2.19E-08	0.00E+00	4.84E-07	4.62E-07	2.19E-08	0.00E+00	4.84E-07	1.39E-07	3.94E-09	0.00E+00	1.42E-07	5.25E-08	1.27E-09	0.00E+00	5.37E-08
1787	458044.7	3768916	4.69E-07	2.22E-08	0.00E+00	4.91E-07	4.69E-07	2.22E-08	0.00E+00	4.91E-07	1.41E-07	3.99E-09	0.00E+00	1.45E-07	5.32E-08	1.29E-09	0.00E+00	5.45E-08
1788	458054.7	3768916	4.77E-07	2.26E-08	0.00E+00	4.99E-07	4.77E-07	2.26E-08	0.00E+00	4.99E-07	1.43E-07	4.06E-09	0.00E+00	1.47E-07	5.41E-08	1.31E-09	0.00E+00	5.54E-08
1789	458064.7	3768916	4.85E-07	2.29E-08	0.00E+00	5.08E-07	4.85E-07	2.29E-08	0.00E+00	5.08E-07	1.45E-07	4.13E-09	0.00E+00	1.49E-07	5.50E-08	1.33E-09	0.00E+00	5.63E-08
1790	458074.7	3768916	4.93E-07	2.33E-08	0.00E+00	5.16E-07	4.93E-07	2.33E-08	0.00E+00	5.16E-07	1.48E-07	4.19E-09	0.00E+00	1.52E-07	5.59E-08	1.35E-09	0.00E+00	5.72E-08
1791	458084.7	3768916	5E-07	2.37E-08	0.00E+00	5.24E-07	5.00E-07	2.37E-08	0.00E+00	5.24E-07	1.50E-07	4.26E-09	0.00E+00	1.54E-07	5.68E-08	1.38E-09	0.00E+00	5.82E-08
1792	458094.7	3768916	5.08E-07	2.41E-08	0.00E+00	5.32E-07	5.08E-07	2.41E-08	0.00E+00	5.32E-07	1.52E-07	4.33E-09	0.00E+00	1.57E-07	5.77E-08	1.40E-09	0.00E+00	5.91E-08
1793	458104.7	3768916	5.16E-07	2.44E-08	0.00E+00	5.40E-07	5.16E-07	2.44E-08	0.00E+00	5.40E-07	1.55E-07	4.39E-09	0.00E+00	1.59E-07	5.85E-08	1.42E-09	0.00E+00	6.00E-08
1794	458144.7	3768916	5.46E-07	2.59E-08	0.00E+00	5.72E-07	5.46E-07	2.59E-08	0.00E+00	5.72E-07	1.64E-07	4.65E-09	0.00E+00	1.68E-07	6.19E-08	1.50E-09	0.00E+00	6.34E-08
1795	458154.7	3768916	5.53E-07	2.62E-08	0.00E+00	5.79E-07	5.53E-07	2.62E-08	0.00E+00	5.79E-07	1.66E-07	4.71E-09	0.00E+00	1.70E-07	6.28E-08	1.52E-09	0.00E+00	6.43E-08
1796	458164.7	3768916	5.6E-07	2.65E-08	0.00E+00	5.87E-07	5.60E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.36E-08	1.54E-09	0.00E+00	6.51E-08
1797	458174.7	3768916	5.66E-07	2.68E-08	0.00E+00	5.93E-07	5.66E-07	2.68E-08	0.00E+00	5.93E-07	1.70E-07	4.82E-09	0.00E+00	1.74E-07	6.43E-08	1.56E-09	0.00E+00	6.58E-08
1798	458184.7	3768916	5.72E-07	2.71E-08	0.00E+00	5.99E-07	5.72E-07	2.71E-08	0.00E+00	5.99E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.49E-08	1.57E-09	0.00E+00	6.65E-08
1799	458194.7	3768916	5.77E-07	2.73E-08	0.00E+00	6.05E-07	5.77E-07	2.73E-08	0.00E+00	6.05E-07	1.73E-07	4.92E-09	0.00E+00	1.78E-07	6.55E-08	1.59E-09	0.00E+00	6.71E-08
1800	458204.7	3768916	5.83E-07	2.76E-08	0.00E+00	6.11E-07	5.83E-07	2.76E-08	0.00E+00	6.11E-07	1.75E-07	4.97E-09	0.00E+00	1.80E-07	6.62E-08	1.60E-09	0.00E+00	6.78E-08
1801	458214.7	3768916	5.89E-07	2.79E-08	0.00E+00	6.17E-07	5.89E-07	2.79E-08	0.00E+00	6.17E-07	1.77E-07	5.02E-09	0.00E+00	1.82E-07	6.69E-08	1.62E-09	0.00E+00	6.85E-08
1802	458224.7	3768916	5.95E-07	2.82E-08	0.00E+00	6.23E-07	5.95E-07	2.82E-08	0.00E+00	6.23E-07	1.78E-07	5.07E-09	0.00E+00	1.83E-07	6.75E-08	1.64E-09	0.00E+00	6.92E-08
1803	458234.7	3768916	6.01E-07	2.85E-08	0.00E+00	6.29E-07	6.01E-07	2.85E-08	0.00E+00	6.29E-07	1.80E-07	5.12E-09	0.00E+00	1.85E-07	6.82E-08	1.65E-09	0.00E+00	6.98E-08
1804	458034.7	3768926	4.46E-07	2.11E-08	0.00E+00	4.67E-07	4.46E-07	2.11E-08	0.00E+00	4.67E-07	1.34E-07	3.80E-09	0.00E+00	1.37E-07	5.06E-08	1.23E-09	0.00E+00	5.18E-08
1805	458044.7	3768926	4.53E-07	2.14E-08	0.00E+00	4.74E-07	4.53E-07	2.14E-08	0.00E+00	4.74E-07	1.36E-07	3.86E-09	0.00E+00	1.40E-07	5.14E-08	1.24E-09	0.00E+00	5.26E-08
1806	458054.7	3768926	4.6E-07	2.18E-08	0.00E+00	4.82E-07	4.60E-07	2.18E-08	0.00E+00	4.82E-07	1.38E-07	3.92E-09	0.00E+00	1.42E-07	5.22E-08	1.27E-09	0.00E+00	5.35E-08
1807	458064.7	3768926	4.68E-07	2.22E-08	0.00E+00	4.90E-07	4.68E-07	2.22E-08	0.00E+00	4.90E-07	1.40E-07	3.99E-09	0.00E+00	1.44E-07	5.31E-08	1.29E-09	0.00E+00	5.44E-08
1808	458074.7	3768926	4.76E-07	2.25E-08	0.00E+00	4.98E-07	4.76E-07	2.25E-08	0.00E+00	4.98E-07	1.43E-07	4.05E-09	0.00E+00	1.47E-07	5.40E-08	1.31E-09	0.00E+00	5.53E-08
1809	458084.7	3768926	4.84E-07	2.29E-08	0.00E+00	5.07E-07	4.84E-07	2.29E-08	0.00E+00	5.07E-07	1.45E-07	4.12E-09	0.00E+00	1.49E-07	5.49E-08	1.33E-09	0.00E+00	5.62E-08
1810	458094.7	3768926	4.91E-07	2.33E-08	0.00E+00	5.15E-07	4.91E-07	2.33E-08	0.00E+00	5.15E-07	1.47E-07	4.18E-09	0.00E+00	1.51E-07	5.57E-08	1.35E-09	0.00E+00	5.71E-08
1811	458104.7	3768926	4.99E-07	2.36E-08	0.00E+00	5.23E-07	4.99E-07	2.36E-08	0.00E+00	5.23E-07	1.49E-07	4.25E-09	0.00E+00	1.54E-07	5.66E-08	1.37E-09	0.00E+00	5.80E-08
1812	458144.7	3768926	5.28E-07	2.5E-08	0.00E+00	5.53E-07	5.28E-07	2.50E-08	0.00E+00	5.53E-07	1.58E-07	4.50E-09	0.00E+00	1.63E-07	5.99E-08	1.45E-09	0.00E+00	6.14E-08
1813	458154.7	3768926	5.35E-07	2.53E-08	0.00E+00	5.60E-07	5.35E-07	2.53E-08	0.00E+00	5.60E-07	1.60E-07	4.55E-09	0.00E+00	1.65E-07	6.07E-08	1.47E-09	0.00E+00	6.22E-08
1814	458164.7	3768926	5.41E-07	2.56E-08	0.00E+00	5.67E-07	5.41E-07	2.56E-08	0.00E+00	5.67E-07	1.62E-07	4.61E-09	0.00E+00	1.67E-07	6.14E-08	1.49E-09	0.00E+00	6.29E-08
1815	458174.7	3768926	5.48E-07	2.59E-08	0.00E+00	5.74E-07	5.48E-07	2.59E-08	0.00E+00	5.74E-07	1.64E-07	4.66E-09	0.00E+00	1.69E-07	6.21E-08	1.51E-09	0.00E+00	6.36E-08
1816	458184.7	3768926	5.54E-07	2.62E-08	0.00E+00	5.80E-07	5.54E-07	2.62E-08	0.00E+00	5.80E-07	1.66E-07	4.71E-09	0.00E+00	1.71E-07	6.28E-08	1.52E-09	0.00E+00	6.43E-08
1817	458194.7	3768926	5.59E-07	2.65E-08	0.00E+00	5.86E-07	5.59E-07	2.65E-08	0.00E+00	5.86E-07	1.68E-07	4.76E-09	0.00E+00	1.72E-07	6.35E-08	1.54E-09	0.00E+00	6.50E-08
1818	458204.7	3768926	5.65E-07	2.68E-08	0.00E+00	5.92E-07	5.65E-07	2.68E-08	0.00E+00	5.92E-07	1.69E-07	4.81E-09	0.00E+00	1.74E-07	6.41E-08	1.55E-09	0.00E+00	6.57E-08
1819	458214.7	3768926	5.71E-07	2.71E-08	0.00E+00	5.99E-07	5.71E-07	2.71E-08	0.00E+00	5.99E-07	1.71E-07	4.87E-09	0.00E+00	1.76E-07	6.48E-08	1.57E-09	0.00E+00	6.64E-08
1820	458224.7	3768926	5.77E-07	2.73E-08	0.00E+00	6.05E-07	5.77E-07	2.73E-08	0.00E+00	6.05E-07	1.73E-07	4.92E-09	0.00E+00	1.78E-07	6.55E-08	1.59E-09	0.00E+00	6.71E-08
1821	458234.7	3768926	5.83E-07	2.76E-08	0.00E+00	6.11E-07	5.83E-07	2.76E-08	0.00E+00	6.11E-07	1.75E-07	4.96E-09	0.00E+00	1.80E-07	6.62E-08	1.60E-09	0.00E+00	6.78E-08
1822	458034.7	3768936	4.3E-07	2.04E-08	0.00E+00	4.51E-07	4.30E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.66E-09	0.00E+00	1.33E-07	4.88E-08	1.18E-09	0.00E+00	5.00E-08
1823	458044.7	3768936	4.38E-07	2.07E-08	0.00E+00	4.58E-07	4.38E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.73E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1824	458054.7	3768936	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
1825	458064.7	3768936	4.52E-07	2.14E-08	0.00E+00	4.74E-07	4.52E-07	2.14E-08	0.00E+00	4.74E-07	1.36E-07	3.85E-09	0.00E+00	1.39E-07	5.13E-08	1.24E-09	0.00E+00	5.26E-08
1826	458074.7	3768936	4.6E-07	2.18E-08	0.00E+00	4.82E-07	4.60E-07	2.18E-08	0.00E+00	4.82E-07	1.38E-07	3.92E-09	0.00E+00	1.42E-07	5.22E-08	1.26E-09	0.00E+00	5.35E-08
1827	458084.7	3768936	4.68E-07	2.21E-08	0.00E+00	4.90E-07	4.68E-07	2.21E-08	0.00E+00	4.90E-07	1.40E-07	3.98E-09	0.00E+00	1.44E-07	5.30E-08	1.28E-09	0.00E+00	5.43E-08
1828	458094.7	3768936	4.75E-07	2.25E-08	0.00E+00	4.98E-07	4.75E-07	2.25E-08	0.00E+00	4.98E-07	1.42E-07	4.04E-09	0.00E+00	1.46E-07	5.39E-08	1.31E-09	0.00E+00	5.52E-08
1829	458104.7	3768936	4.82E-07	2.28E-08	0.00E+00	5.05E-07	4.82E-07	2.28E-08	0.00E+00	5.05E-07	1.45E-07	4.11E-09	0.00E+00	1.49E-07	5.47E-08	1.33E-09	0.00E+00	5.61E-08
1830	458144.7	3768936	5.11E-07	2.42E-08	0.00E+00	5.35E-07	5.11E-07	2.42E-08	0.00E+00	5.35E-07	1.53E-07	4.35E-09	0.00E+00	1.57E-07	5.80E-08	1.40E-09	0.00E+00	5.94E-08
1831	458154.7	3768936	5.17E-07	2.45E-08	0.00E+00	5.42E-07	5.17E-07	2.45E-08	0.00E+00	5.42E-07	1.55E-07	4.40E-09	0.00E+00	1.59E-07	5.87E-08	1.42E-09	0.00E+00	6.01E-08
1832	458164.7	3768936	5.23E-07	2.48E-08	0.00E+00	5.48E-07	5.23E-07	2.48E-08	0.00E+00	5.48E-07	1.57E-07	4.46E-09	0.00E+00	1.61E-07	5.94E-08	1.44E-09	0.00E+00	6.08E-08
1833	458174.7	3768936	5.3E-07	2.51E-08	0.00E+00	5.55E-07	5.30E-07	2.51E-08	0.00E+00	5.55E-07	1.59E-07	4.51E-09	0.00E+00	1.63E-07	6.01E-08	1.46E-09	0.00E+00	6.15E-08
1834	458184.7	3768936	5.36E-07	2.54E-08	0.00E+00	5.61E-07	5.36E-07	2.54E-08	0.00E+00	5.61E-07	1.60E-07	4.56E-09	0.00E+00	1.65E-07	6.08E-08	1.47E-09	0.00E+00	6.23E-08
1835	458194.7	3768936	5.42E-07	2.57E-08	0.00E+00	5.68E-07	5.42E-07	2.57E-08	0.00E+00	5.68E-07	1.62E-07	4.61E-09	0.00E+00	1.67E-07	6.15E-08	1.49E-09	0.00E+00	6.30E-08
1836	458204.7	3768936	5.48E-07	2.59E-08	0.00E+00	5.74E-07	5.48E-07	2.59E-08	0.00E+00	5.74E-07	1.64E-07	4.67E-09	0.00E+00	1.69E-07	6.22E-08	1.51E-09	0.00E+00	6.37E-08
1837	458214.7	3768936	5.54E-07	2.62E-08	0.00E+00	5.80E-07	5.54E-07	2.62E-08	0.00E+00	5.80E-07	1.66E-07	4.72E-09	0.00E+00	1.71E-07	6.29E-08	1.52E-09	0.00E+00	6.44E-08
1838	458224.7	3768936	5.6E-07	2.65E-08	0.00E+00	5.87E-07	5.60E-07	2.65E-08	0.00E+00	5.87E-07	1.68E-07	4.77E-09	0.00E+00	1.73E-07	6.35E-08	1.54E-09	0.00E+00	6.51E-08
1839	458234.7	3768936	5.66E-07	2.68E-08	0.00E+00	5.93E-07	5.66E-07	2.68E-08	0.00E+00	5.93E-07	1.69E-07	4.82E-09	0.00E+00	1.74E-07	6.42E-08	1.56E-09	0.00E+00	6.58E-08
1840	458034.7	3768946	4.15E-07	1.97E-08	0.00E+00	4.35E-07	4.15E-07	1.97E-08	0.00E+00	4.35E-07	1.24E-07	3.54E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.83E-08
1841	458044.7	3768946	4.23E-07	2E-08	0.00E+00	4.43E-07	4.23E-07	2.00E-08	0.00E+00	4.43E-07	1.27E-07	3.60E-09	0.00E+00	1.30E-07	4.80E-08	1.16E-09	0.00E+00	4.91E-08
1842	458054.7	3768946	4.3E-07	2.04E-08	0.00E+00	4.50E-07	4.30E-07	2.04E-08	0.00E+00	4.50E-07	1.29E-07	3.66E-09	0.00E+00	1.32E-07	4.88E-08	1.18E-09	0.00E+00	5.00E-08
1843	458064.7	3768946	4.37E-07	2.07E-08	0.00E+00	4.58E-07	4.37E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1844	458074.7	3768946	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
1845	458084.7	3768946	4.52E-07	2.14E-08	0.00E+00	4.74E-07	4.52E-07	2.14E-08	0.00E+00	4.74E-07	1.35E-07	3.85E-09	0.00E+00	1.39E-07	5.13E-08	1.24E-09	0.00E+00	5.25E-08
1846	458094.7	3768946	4.59E-07	2.18E-08	0.00E+00	4.81E-07	4.59E-07	2.18E-08	0.00E+00	4.81E-07	1.38E-07	3.91E-09	0.00E+00	1.42E-07	5.21E-08	1.26E-09	0.00E+00	5.34E-08
1847	458104.7	3768946	4.67E-07	2.21E-08	0.00E+00	4.89E-07	4.67E-07	2.21E-08	0.00E+00	4.89E-07	1.40E-07	3.97E-09	0.00E+00	1.44E-07	5.29E-08	1.28E-09	0.00E+00	5.42E-08
1848	458144.7	3768946	4.94E-07	2.34E-08	0.00E+00	5.18E-07	4.94E-07	2.34E-08	0.00E+00	5.18E-07	1.48E-07	4.21E-09	0.00E+00	1.52E-07	5.61E-08	1.36E-09	0.00E+00	5.75E-08
1849	458154.7	3768946	5E-07	2.37E-08	0.00E+00	5.24E-07	5.00E-07	2.37E-08	0.00E+00	5.24E-07	1.50E-07	4.26E-09	0.00E+00	1.54E-07	5.68E-08	1.37E-09	0.00E+00	5.81E-08
1850	458164.7	3768946	5.06E-07	2.4E-08	0.00E+00	5.30E-07	5.06E-07	2.40E-08	0.00E+00	5.30E-07	1.52E-07	4.31E-09	0.00E+00	1.56E-07	5.74E-08	1.39E-09	0.00E+00	5.88E-08
1851	458174.7	3768946	5.12E-07	2.42E-08	0.00E+00	5.36E-07	5.12E-07	2.42E-08	0.00E+00	5.36E-07	1.53E-07	4.36E-09	0.00E+00	1.58E-07	5.81E-08	1.41E-09	0.00E+00	5.95E-08
1852	458184.7	3768946	5.19E-07	2.46E-08	0.00E+00	5.43E-07	5.19E-07	2.46E-08	0.00E+00	5.43E-07	1.55E-07	4.41E-09	0.00E+00	1.60E-07	5.88E-08	1.43E-09	0.00E+00	6.03E-08
1853	458194.7	3768946	5.25E-07	2.49E-08	0.00E+00	5.50E-07	5.25E-07	2.49E-08	0.00E+00	5.50E-07	1.57E-07	4.47E-09	0.00E+00	1.62E-07	5.96E-08	1.44E-09	0.00E+00	6.10E-08
1854	458204.7	3768946	5.31E-07	2.52E-08	0.00E+00	5.56E-07	5.31E-07	2.52E-08	0.00E+00	5.56E-07	1.59E-07	4.52E-09	0.00E+00	1.64E-07	6.03E-08	1.46E-09	0.00E+00	6.17E-08
1855	458214.7	3768946	5.37E-07	2.54E-08	0.00E+00	5.63E-07	5.37E-07	2.54E-08	0.00E+00	5.63E-07	1.61E-07	4.57E-09	0.00E+00	1.66E-07	6.10E-08	1.48E-09	0.00E+00	6.24E-08
1856	458224.7	3768946	5.43E-07	2.57E-08	0.00E+00	5.69E-07	5.43E-07	2.57E-08	0.00E+00	5.69E-07	1.63E-07	4.63E-09	0.00E+00	1.67E-07	6.16E-08	1.49E-09	0.00E+00	6.31E-08
1857	458234.7	3768946	5.49E-07	2.6E-08	0.00E+00	5.75E-07	5.49E-07	2.60E-08	0.00E+00	5.75E-07	1.64E-07	4.67E-09	0.00E+00	1.69E-07	6.23E-08	1.51E-09	0.00E+00	6.38E-08
1858	458034.7	3768956	4.02E-07	1.9E-08	0.00E+00	4.21E-07	4.02E-07	1.90E-08	0.00E+00	4.21E-07	1.20E-07	3.42E-09	0.00E+00	1.24E-07	4.56E-08	1.10E-09	0.00E+00	4.67E-08
1859	458044.7	3768956	4.09E-07	1.94E-08	0.00E+00	4.28E-07	4.09E-07	1.94E-08	0.00E+00	4.28E-07	1.22E-07	3.48E-09	0.00E+00	1.26E-07	4.64E-08	1.12E-09	0.00E+00	4.75E-08
1860	458054.7	3768956	4.16E-07	1.97E-08	0.00E+00	4.36E-07	4.16E-07	1.97E-08	0.00E+00	4.36E-07	1.25E-07	3.54E-09	0.00E+00	1.28E-07	4.72E-08	1.14E-09	0.00E+00	4.83E-08
1861	458064.7	3768956	4.23E-07	2E-08	0.00E+00	4.43E-07	4.23E-07	2.00E-08	0.00E+00	4.43E-07	1.27E-07	3.60E-09	0.00E+00	1.30E-07	4.80E-08	1.16E-09	0.00E+00	4.92E-08
1862	458074.7	3768956	4.3E-07	2.04E-08	0.00E+00	4.51E-07	4.30E-07	2.04E-08	0.00E+00	4.51E-07	1.29E-07	3.66E-09	0.00E+00	1.33E-07	4.88E-08	1.18E-09	0.00E+00	5.00E-08
1863	458084.7	3768956	4.37E-07	2.07E-08	0.00E+00	4.58E-07	4.37E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1864	458094.7	3768956	4.44E-07	2.1E-08	0.00E+00	4.65E-07	4.44E-07	2.10E-08	0.00E+00	4.65E-07	1.33E-07	3.78E-09	0.00E+00	1.37E-07	5.04E-08	1.22E-09	0.00E+00	5.16E-08
1865	458104.7	3768956	4.51E-07	2.13E-08	0.00E+00	4.72E-07	4.51E-07	2.13E-08	0.00E+00	4.72E-07	1.35E-07	3.84E-09	0.00E+00	1.39E-07	5.11E-08	1.24E-09	0.00E+00	5.24E-08
1866	458144.7	3768956	4.78E-07	2.26E-08	0.00E+00	5.00E-07	4.78E-07	2.26E-08	0.00E+00	5.00E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.42E-08	1.31E-09	0.00E+00	5.55E-08
1867	458154.7	3768956	4.84E-07	2.29E-08	0.00E+00	5.07E-07	4.84E-07	2.29E-08	0.00E+00	5.07E-07	1.45E-07	4.12E-09	0.00E+00	1.49E-07	5.49E-08	1.33E-09	0.00E+00	5.62E-08

1868	458164.7	3768956	4.9E-07	2.32E-08	0.00E+00	5.13E-07	4.90E-07	2.32E-08	0.00E+00	5.13E-07	1.47E-07	4.17E-09	0.00E+00	1.51E-07	5.56E-08	1.35E-09	0.00E+00	5.69E-08
1869	458174.7	3768956	4.96E-07	2.35E-08	0.00E+00	5.19E-07	4.96E-07	2.35E-08	0.00E+00	5.19E-07	1.49E-07	4.22E-09	0.00E+00	1.53E-07	5.63E-08	1.36E-09	0.00E+00	5.76E-08
1870	458184.7	3768956	5.02E-07	2.38E-08	0.00E+00	5.26E-07	5.02E-07	2.38E-08	0.00E+00	5.26E-07	1.50E-07	4.28E-09	0.00E+00	1.55E-07	5.70E-08	1.38E-09	0.00E+00	5.84E-08
1871	458194.7	3768956	5.09E-07	2.41E-08	0.00E+00	5.33E-07	5.09E-07	2.41E-08	0.00E+00	5.33E-07	1.52E-07	4.33E-09	0.00E+00	1.57E-07	5.77E-08	1.40E-09	0.00E+00	5.91E-08
1872	458204.7	3768956	5.15E-07	2.44E-08	0.00E+00	5.39E-07	5.15E-07	2.44E-08	0.00E+00	5.39E-07	1.54E-07	4.38E-09	0.00E+00	1.59E-07	5.84E-08	1.42E-09	0.00E+00	5.98E-08
1873	458214.7	3768956	5.21E-07	2.47E-08	0.00E+00	5.46E-07	5.21E-07	2.47E-08	0.00E+00	5.46E-07	1.56E-07	4.44E-09	0.00E+00	1.61E-07	5.91E-08	1.43E-09	0.00E+00	6.06E-08
1874	458224.7	3768956	5.27E-07	2.5E-08	0.00E+00	5.52E-07	5.27E-07	2.50E-08	0.00E+00	5.52E-07	1.58E-07	4.49E-09	0.00E+00	1.62E-07	5.98E-08	1.45E-09	0.00E+00	6.12E-08
1875	458234.7	3768956	5.33E-07	2.52E-08	0.00E+00	5.58E-07	5.33E-07	2.52E-08	0.00E+00	5.58E-07	1.60E-07	4.53E-09	0.00E+00	1.64E-07	6.04E-08	1.46E-09	0.00E+00	6.19E-08
1876	458034.7	3768966	3.89E-07	1.84E-08	0.00E+00	4.07E-07	3.89E-07	1.84E-08	0.00E+00	4.07E-07	1.16E-07	3.31E-09	0.00E+00	1.20E-07	4.41E-08	1.07E-09	0.00E+00	4.52E-08
1877	458044.7	3768966	3.96E-07	1.87E-08	0.00E+00	4.14E-07	3.96E-07	1.87E-08	0.00E+00	4.14E-07	1.18E-07	3.37E-09	0.00E+00	1.22E-07	4.49E-08	1.09E-09	0.00E+00	4.60E-08
1878	458054.7	3768966	4.02E-07	1.91E-08	0.00E+00	4.21E-07	4.02E-07	1.91E-08	0.00E+00	4.21E-07	1.21E-07	3.43E-09	0.00E+00	1.24E-07	4.57E-08	1.11E-09	0.00E+00	4.68E-08
1879	458064.7	3768966	4.09E-07	1.94E-08	0.00E+00	4.29E-07	4.09E-07	1.94E-08	0.00E+00	4.29E-07	1.23E-07	3.48E-09	0.00E+00	1.26E-07	4.64E-08	1.12E-09	0.00E+00	4.76E-08
1880	458074.7	3768966	4.16E-07	1.97E-08	0.00E+00	4.36E-07	4.16E-07	1.97E-08	0.00E+00	4.36E-07	1.25E-07	3.54E-09	0.00E+00	1.28E-07	4.72E-08	1.14E-09	0.00E+00	4.84E-08
1881	458084.7	3768966	4.23E-07	2E-08	0.00E+00	4.43E-07	4.23E-07	2.00E-08	0.00E+00	4.43E-07	1.27E-07	3.60E-09	0.00E+00	1.30E-07	4.80E-08	1.16E-09	0.00E+00	4.91E-08
1882	458094.7	3768966	4.29E-07	2.03E-08	0.00E+00	4.49E-07	4.29E-07	2.03E-08	0.00E+00	4.49E-07	1.28E-07	3.65E-09	0.00E+00	1.32E-07	4.87E-08	1.18E-09	0.00E+00	4.98E-08
1883	458104.7	3768966	4.35E-07	2.06E-08	0.00E+00	4.56E-07	4.35E-07	2.06E-08	0.00E+00	4.56E-07	1.30E-07	3.70E-09	0.00E+00	1.34E-07	4.94E-08	1.20E-09	0.00E+00	5.06E-08
1884	458144.7	3768966	4.62E-07	2.19E-08	0.00E+00	4.84E-07	4.62E-07	2.19E-08	0.00E+00	4.84E-07	1.38E-07	3.93E-09	0.00E+00	1.42E-07	5.24E-08	1.27E-09	0.00E+00	5.37E-08
1885	458154.7	3768966	4.68E-07	2.22E-08	0.00E+00	4.90E-07	4.68E-07	2.22E-08	0.00E+00	4.90E-07	1.40E-07	3.98E-09	0.00E+00	1.44E-07	5.31E-08	1.29E-09	0.00E+00	5.44E-08
1886	458164.7	3768966	4.74E-07	2.25E-08	0.00E+00	4.97E-07	4.74E-07	2.25E-08	0.00E+00	4.97E-07	1.42E-07	4.04E-09	0.00E+00	1.46E-07	5.38E-08	1.30E-09	0.00E+00	5.51E-08
1887	458174.7	3768966	4.81E-07	2.28E-08	0.00E+00	5.03E-07	4.81E-07	2.28E-08	0.00E+00	5.03E-07	1.44E-07	4.09E-09	0.00E+00	1.48E-07	5.45E-08	1.32E-09	0.00E+00	5.58E-08
1888	458184.7	3768966	4.87E-07	2.31E-08	0.00E+00	5.10E-07	4.87E-07	2.31E-08	0.00E+00	5.10E-07	1.46E-07	4.15E-09	0.00E+00	1.50E-07	5.52E-08	1.34E-09	0.00E+00	5.66E-08
1889	458194.7	3768966	4.93E-07	2.34E-08	0.00E+00	5.17E-07	4.93E-07	2.34E-08	0.00E+00	5.17E-07	1.48E-07	4.20E-09	0.00E+00	1.52E-07	5.60E-08	1.36E-09	0.00E+00	5.73E-08
1890	458204.7	3768966	4.99E-07	2.36E-08	0.00E+00	5.23E-07	4.99E-07	2.36E-08	0.00E+00	5.23E-07	1.50E-07	4.25E-09	0.00E+00	1.54E-07	5.67E-08	1.37E-09	0.00E+00	5.80E-08
1891	458214.7	3768966	5.05E-07	2.39E-08	0.00E+00	5.29E-07	5.05E-07	2.39E-08	0.00E+00	5.29E-07	1.51E-07	4.30E-09	0.00E+00	1.56E-07	5.73E-08	1.39E-09	0.00E+00	5.87E-08
1892	458224.7	3768966	5.11E-07	2.42E-08	0.00E+00	5.36E-07	5.11E-07	2.42E-08	0.00E+00	5.36E-07	1.53E-07	4.35E-09	0.00E+00	1.57E-07	5.80E-08	1.41E-09	0.00E+00	5.94E-08
1893	458234.7	3768966	5.17E-07	2.45E-08	0.00E+00	5.41E-07	5.17E-07	2.45E-08	0.00E+00	5.41E-07	1.55E-07	4.40E-09	0.00E+00	1.59E-07	5.86E-08	1.42E-09	0.00E+00	6.00E-08
1894	458034.7	3768976	3.76E-07	1.78E-08	0.00E+00	3.94E-07	3.76E-07	1.78E-08	0.00E+00	3.94E-07	1.13E-07	3.20E-09	0.00E+00	1.16E-07	4.27E-08	1.03E-09	0.00E+00	4.37E-08
1895	458044.7	3768976	3.83E-07	1.81E-08	0.00E+00	4.01E-07	3.83E-07	1.81E-08	0.00E+00	4.01E-07	1.15E-07	3.26E-09	0.00E+00	1.18E-07	4.34E-08	1.05E-09	0.00E+00	4.45E-08
1896	458054.7	3768976	3.89E-07	1.84E-08	0.00E+00	4.08E-07	3.89E-07	1.84E-08	0.00E+00	4.08E-07	1.17E-07	3.32E-09	0.00E+00	1.20E-07	4.42E-08	1.07E-09	0.00E+00	4.53E-08
1897	458064.7	3768976	3.96E-07	1.88E-08	0.00E+00	4.15E-07	3.96E-07	1.88E-08	0.00E+00	4.15E-07	1.19E-07	3.37E-09	0.00E+00	1.22E-07	4.49E-08	1.09E-09	0.00E+00	4.60E-08
1898	458074.7	3768976	4.03E-07	1.91E-08	0.00E+00	4.22E-07	4.03E-07	1.91E-08	0.00E+00	4.22E-07	1.21E-07	3.43E-09	0.00E+00	1.24E-07	4.57E-08	1.11E-09	0.00E+00	4.68E-08
1899	458084.7	3768976	4.09E-07	1.94E-08	0.00E+00	4.28E-07	4.09E-07	1.94E-08	0.00E+00	4.28E-07	1.23E-07	3.48E-09	0.00E+00	1.26E-07	4.64E-08	1.12E-09	0.00E+00	4.75E-08
1900	458094.7	3768976	4.15E-07	1.96E-08	0.00E+00	4.34E-07	4.15E-07	1.96E-08	0.00E+00	4.34E-07	1.24E-07	3.53E-09	0.00E+00	1.28E-07	4.70E-08	1.14E-09	0.00E+00	4.82E-08
1901	458104.7	3768976	4.2E-07	1.99E-08	0.00E+00	4.40E-07	4.20E-07	1.99E-08	0.00E+00	4.40E-07	1.26E-07	3.58E-09	0.00E+00	1.29E-07	4.77E-08	1.16E-09	0.00E+00	4.88E-08
1902	458144.7	3768976	4.46E-07	2.11E-08	0.00E+00	4.67E-07	4.46E-07	2.11E-08	0.00E+00	4.67E-07	1.34E-07	3.80E-09	0.00E+00	1.37E-07	5.06E-08	1.23E-09	0.00E+00	5.19E-08
1903	458154.7	3768976	4.53E-07	2.14E-08	0.00E+00	4.74E-07	4.53E-07	2.14E-08	0.00E+00	4.74E-07	1.36E-07	3.86E-09	0.00E+00	1.39E-07	5.14E-08	1.24E-09	0.00E+00	5.26E-08
1904	458164.7	3768976	4.59E-07	2.17E-08	0.00E+00	4.81E-07	4.59E-07	2.17E-08	0.00E+00	4.81E-07	1.38E-07	3.91E-09	0.00E+00	1.41E-07	5.21E-08	1.26E-09	0.00E+00	5.34E-08
1905	458174.7	3768976	4.66E-07	2.2E-08	0.00E+00	4.88E-07	4.66E-07	2.20E-08	0.00E+00	4.88E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
1906	458184.7	3768976	4.72E-07	2.23E-08	0.00E+00	4.94E-07	4.72E-07	2.23E-08	0.00E+00	4.94E-07	1.41E-07	4.02E-09	0.00E+00	1.45E-07	5.35E-08	1.30E-09	0.00E+00	5.48E-08
1907	458194.7	3768976	4.78E-07	2.26E-08	0.00E+00	5.01E-07	4.78E-07	2.26E-08	0.00E+00	5.01E-07	1.43E-07	4.07E-09	0.00E+00	1.47E-07	5.43E-08	1.31E-09	0.00E+00	5.56E-08
1908	458204.7	3768976	4.84E-07	2.29E-08	0.00E+00	5.07E-07	4.84E-07	2.29E-08	0.00E+00	5.07E-07	1.45E-07	4.12E-09	0.00E+00	1.49E-07	5.49E-08	1.33E-09	0.00E+00	5.63E-08
1909	458214.7	3768976	4.9E-07	2.32E-08	0.00E+00	5.13E-07	4.90E-07	2.32E-08	0.00E+00	5.13E-07	1.47E-07	4.17E-09	0.00E+00	1.51E-07	5.56E-08	1.35E-09	0.00E+00	5.70E-08
1910	458224.7	3768976	4.96E-07	2.35E-08	0.00E+00	5.20E-07	4.96E-07	2.35E-08	0.00E+00	5.20E-07	1.49E-07	4.22E-09	0.00E+00	1.53E-07	5.63E-08	1.36E-09	0.00E+00	5.76E-08
1911	458234.7	3768976	5.01E-07	2.37E-08	0.00E+00	5.25E-07	5.01E-07	2.37E-08	0.00E+00	5.25E-07	1.50E-07	4.27E-09	0.00E+00	1.54E-07	5.69E-08	1.38E-09	0.00E+00	5.83E-08
1912	458034.7	3768986	3.64E-07	1.72E-08	0.00E+00	3.81E-07	3.64E-07	1.72E-08	0.00E+00	3.81E-07	1.09E-07	3.10E-09	0.00E+00	1.12E-07	4.13E-08	9.99E-10	0.00E+00	4.23E-08
1913	458044.7	3768986	3.7E-07	1.75E-08	0.00E+00	3.87E-07	3.70E-07	1.75E-08	0.00E+00	3.87E-07	1.11E-07	3.15E-09	0.00E+00	1.14E-07	4.19E-08	1.02E-09	0.00E+00	4.30E-08
1914	458054.7	3768986	3.76E-07	1.78E-08	0.00E+00	3.94E-07	3.76E-07	1.78E-08	0.00E+00	3.94E-07	1.13E-07	3.20E-09	0.00E+00	1.16E-07	4.27E-08	1.03E-09	0.00E+00	4.37E-08
1915	458064.7	3768986	3.82E-07	1.81E-08	0.00E+00	4.01E-07	3.82E-07	1.81E-08	0.00E+00	4.01E-07	1.15E-07	3.26E-09	0.00E+00	1.18E-07	4.34E-08	1.05E-09	0.00E+00	4.44E-08
1916	458074.7	3768986	3.89E-07	1.84E-08	0.00E+00	4.07E-07	3.89E-07	1.84E-08	0.00E+00	4.07E-07	1.17E-07	3.31E-09	0.00E+00	1.20E-07	4.41E-08	1.07E-09	0.00E+00	4.52E-08
1917	458084.7	3768986	3.95E-07	1.87E-08	0.00E+00	4.14E-07	3.95E-07	1.87E-08	0.00E+00	4.14E-07	1.18E-07	3.36E-09	0.00E+00	1.22E-07	4.48E-08	1.09E-09	0.00E+00	4.59E-08
1918	458094.7	3768986	4.01E-07	1.9E-08	0.00E+00	4.20E-07	4.01E-07	1.90E-08	0.00E+00	4.20E-07	1.20E-07	3.41E-09	0.00E+00	1.24E-07	4.55E-08	1.10E-09	0.00E+00	4.66E-08
1919	458104.7	3768986	4.07E-07	1.93E-08	0.00E+00	4.26E-07	4.07E-07	1.93E-08	0.00E+00	4.26E-07	1.22E-07	3.46E-09	0.00E+00	1.25E-07	4.61E-08	1.12E-09	0.00E+00	4.73E-08
1920	458144.7	3768986	4.32E-07	2.05E-08	0.00E+00	4.53E-07	4.32E-07	2.05E-08	0.00E+00	4.53E-07	1.29E-07	3.68E-09	0.00E+00	1.33E-07	4.91E-08	1.19E-09	0.00E+00	5.02E-08
1921	458154.7	3768986	4.39E-07	2.08E-08	0.00E+00	4.60E-07	4.39E-07	2.08E-08	0.00E+00	4.60E-07	1.31E-07	3.73E-09	0.00E+00	1.35E-07	4.98E-08	1.21E-09	0.00E+00	5.10E-08
1922	458164.7	3768986	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
1923	458174.7	3768986	4.51E-07	2.14E-08	0.00E+00	4.73E-07	4.51E-07	2.14E-08	0.00E+00	4.73E-07	1.35E-07	3.84E-09	0.00E+00	1.39E-07	5.12E-08	1.24E-09	0.00E+00	5.24E-08
1924	458184.7	3768986	4.57E-07	2.16E-08	0.00E+00	4.79E-07	4.57E-07	2.16E-08	0.00E+00	4.79E-07	1.37E-07	3.89E-09	0.00E+00	1.41E-07	5.19E-08	1.26E-09	0.00E+00	5.31E-08
1925	458194.7	3768986	4.63E-07	2.19E-08	0.00E+00	4.85E-07	4.63E-07	2.19E-08	0.00E+00	4.85E-07	1.39E-07	3.94E-09	0.00E+00	1.43E-07	5.25E-08	1.27E-09	0.00E+00	5.38E-08
1926	458204.7	3768986	4.69E-07	2.22E-08	0.00E+00	4.91E-07	4.69E-07	2.22E-08	0.00E+00	4.91E-07	1.40E-07	3.99E-09	0.00E+00	1.44E-07	5.32E-08	1.29E-09	0.00E+00	5.45E-08
1927	458214.7	3768986	4.75E-07	2.25E-08	0.00E+00	4.97E-07	4.75E-07	2.25E-08	0.00E+00	4.97E-07	1.42E-07	4.04E-09	0.00E+00	1.46E-07	5.38E-08	1.30E-09	0.00E+00	5.52E-08
1928	458224.7	3768986	4.8E-07	2.27E-08	0.00E+00	5.03E-07	4.80E-07	2.27E-08	0.00E+00	5.03E-07	1.44E-07	4.09E-09	0.00E+00	1.48E-07	5.45E-08	1.32E-09	0.00E+00	5.58E-08
1929	458234.7	3768986	4.86E-07	2.3E-08	0.00E+00	5.09E-07	4.86E-07	2.30E-08	0.00E+00	5.09E-07	1.46E-07	4.14E-09	0.00E+00	1.50E-07	5.51E-08	1.34E-09	0.00E+00	5.65E-08
1930	458034.7	3768996	3.52E-07	1.66E-08	0.00E+00	3.68E-07	3.52E-07	1.66E-08	0.00E+00	3.68E-07	1.05E-07	2.99E-09	0.00E+00	1.08E-07	3.99E-08	9.66E-10	0.00E+00	4.09E-08
1931	458044.7	3768996	3.57E-07	1.69E-08	0.00E+00	3.74E-07	3.57E-07	1.69E-08	0.00E+00	3.74E-07	1.07E-07	3.04E-09	0.00E+00	1.10E-07	4.05E-08	9.82E-10	0.00E+00	4.15E-08
1932	458054.7	3768996	3.63E-07	1.72E-08	0.00E+00	3.80E-07	3.63E-07	1.72E-08	0.00E+00	3.80E-07	1.09E-07	3.09E-09	0.00E+00	1.12E-07	4.12E-08	9.98E-10	0.00E+00	4.22E-08
1933	458064.7	3768996	3.69E-07	1.75E-08	0.00E+00	3.87E-07	3.69E-07	1.75E-08	0.00E+00	3.87E-07	1.11E-07	3.14E-09	0.00E+00	1.14E-07	4.19E-08	1.01E-09	0.00E+00	4.29E-08
1934	458074.7	3768996	3.76E-07	1.78E-08	0.00E+00	3.93E-07	3.76E-07	1.78E-08	0.00E+00	3.93E-07	1.13E-07	3.20E-09	0.00E+00	1.16E-07	4.26E-08	1.03E-09	0.00E+00	4.37E-08
1935	458084.7	3768996	3.82E-07	1.81E-08	0.00E+00	4.00E-07	3.82E-07	1.81E-08	0.00E+00	4.00E-07	1.14E-07	3.25E-09	0.00E+00	1.18E-07	4.33E-08	1.05E-09	0.00E+00	4.44E-08
1936	458094.7	3768996	3.88E-07	1.84E-08	0.00E+00	4.06E-07	3.88E-07	1.84E-08	0.00E+00	4.06E-07	1.16E-07	3.30E-09	0.00E+00	1.19E-07	4.40E-08	1.07E-09	0.00E+00	4.51E-08
1937	458104.7	3768996	3.94E-07	1.86E-08	0.00E+00	4.12E-07	3.94E-07	1.86E-08	0.00E+00	4.12E-07	1.18E-07	3.35E-09	0.00E+00	1.21E-07	4.47E-08	1.08E-09	0.00E+00	4.58E-08
1938	458144.7	3768996	4.19E-07	1.98E-08	0.00E+00	4.39E-07	4.19E-07	1.98E-08	0.00E+00	4.39E-07	1.25E-07	3.57E-09	0.00E+00	1.29E-07	4.75E-08	1.15E-09	0.00E+00	4.87E-08
1939	458154.7	3768996	4.25E-07	2.01E-08	0.00E+00	4.45E-07	4.25E-07	2.01E-08	0.00E+00	4.45E-07	1.27E-07	3.62E-09	0.00E+00	1.31E-07	4.82E-08	1.17E-09	0.00E+00	4.94E-08
1940	458164.7	3768996	4.31E-07	2.04E-08	0.00E+00	4.52E-07	4.31E-07	2.04E-08	0.00E+00	4.52E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.89E-08	1.19E-09	0.00E+00	5.01E-08
1941	458174.7	3768996	4.37E-07	2.07E-08	0.00E+00	4.58E-07	4.37E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1942	458184.7	3768996	4.43E-07	2.1E-08	0.00E+00	4.64E-07	4.43E-07	2.10E-08	0.00E+00	4.64E-07	1.33E-07	3.77E-09	0.00E+00	1.36E-07	5.02E-08	1.22E-09	0.00E+00	5.14E-08
1943	458194.7	3768996	4.48E-07	2.12E-08	0.00E+00	4.69E-07	4.48E-07	2.12E-08	0.00E+00	4.69E-07	1.34E-07	3.81E-09	0.00E+00	1.38E-07	5.08E-08	1.23E-09	0.00E+00	5.21E-08
1944	458204.7	3768996	4.54E-07	2.15E-08	0.00E+00	4.75E-07	4.54E-07	2.15E-08	0.00E+00	4.75E-07	1.36E-07	3.86E-09	0.00E+00	1.40E-07	5.15E-08	1.25E-09	0.00E+00	5.27E-08
1945	458214.7	3768996	4.59E-07	2.18E-08	0.00E+00	4.81E-07	4.59E-07	2.18E-08	0.00E+00	4.81E-07	1.38E-07	3.91E-09	0.00E+00	1.42E-07	5.21E-08	1.26E-09	0.00E+00	5.34E-08
1946	458224.7	3768996	4.65E-07	2.2E-08	0.00E+00	4.87E-07	4.65E-07	2.20E-08	0.00E+00	4.87E-07	1.39E-07	3.96E-09	0.00E+00	1.43E-07	5.28E-08	1.28E-09	0.00E+00	5.41E-08
1947	458234.7	3768996	4.71E-07	2.23E-08	0.00E+00	4.93E-07	4.71E-07	2.23E-08	0.00E+00	4.93E-07	1.41E-07	4.01E-09	0.00E+00	1.45E-07	5.34E-08	1.29E-09	0.00E+00	5.47E-08
1948	458034.7	3769006	3.4E-07	1.61E-08	0.00E+00	3.56E-07	3.40E-07	1.61E-08	0.00E+00	3.56E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.86E-08	9.35E-10	0.00E+00	3.95E-08
1949	458044.7	3769006	3.45E-07	1.63E-08	0.00E+00	3.62E-07	3.45E-07	1.63E-08	0.00E+00	3.62E-07	1.03E-07	2.94E-09	0.00E+00	1.06E-07	3.92E-08	9.49E-10	0.00E+00	4.01E-08
1950	458054.7	3769006	3.51E-07	1.66E-08	0.00E+00	3.67E-07	3.51E-07	1.66E-08	0.00E+00	3.67E-07	1.05E-07	2.99E-09	0.00E+00	1.08E-07	3.98E-08	9.64E-10	0.00E+00	4.08E-08
1951	458064.7	3769006	3.57E-07	1.69E-08	0.00E+00	3.74E-07	3.57E-07	1.69E-08	0.00E+00	3.74E-07	1.07E-07	3.04E-09	0.00E+00	1.10E-07	4.05E-08	9.80E-10	0.00E+00	4.15E-08
1952	458074.7	3769006	3.63E-07	1.72E-08	0.00E+00	3.80E-07	3.63E-07	1.72E-08	0.00E+00	3.80E-07	1.09E-07	3.09E-09	0.00E+00	1.12E-07	4.12E-08	9.97E-10	0.00E+00	4.22E-08
1953	458084.7	3769006	3.69E-07	1.75E-08	0.00E+00	3.86E-07	3.69E-07	1.75E-08	0.00E+00	3.86E-07	1.11E-07	3.14E-09	0.00E+00	1.14E-07	4.19E-08	1.01E-09	0.00E+00	4.29E-08
1954	458094.7	3769006	3.75E-07	1.78E-08	0.00E+00	3.93E-07	3.75E-07	1.78E-08	0.00E+00	3.93E-07	1.12E-07	3.19E-09	0.00E+00	1.16E-07	4.26E-08	1.03E-09	0.00E+00	4.36E-08
1955	458104.7	3769006	3.81E-07	1.81E-08	0.00E+00	3.99E-07	3.81E-07	1.81E-08	0.00E+00	3.99E-07	1.14E-07	3.25E-09	0.00E+00	1.17E-07	4.33E-08	1.05E-09	0.00E+00	4.43E-08
1956	458144.7	3769006	4.06E-07	1.92E-08	0.00E+00	4.25E-07	4.06E-07	1.92E-08	0.00E+00	4.25E-07	1.22E-07	3.46E-09	0.00E+00	1.25E-07	4.61E-08	1.12E-09	0.00E+00	4.72E-08
1957	458154.7	3769006	4.12E-07	1.95E-08	0.00E+00	4.32E-07	4.12E-07	1.95E-08	0.00E+00	4.32E-07	1.23E-07	3.51E-09	0.00E+00	1.27E-07	4.68E-08	1.13E-09	0.00E+00	4.79E-08
1958	458164.7	3769006	4.18E-07	1.98E-08	0.00E+00	4.38E-07	4.18E-07	1.98E-08	0.00E+00	4.38E-07	1.25E-07	3.56E-09	0.00E+00	1.29E-07	4.74E-08	1.15E-09	0.00E+00	4.86E-08
1959	458174.7	3769006	4.24E-07	2.01E-08	0.00E+00	4.44E-07	4.24E-07	2.01E-08	0.00E+00	4.44E-07	1.27E-07	3.61E-09	0.00E+00	1.31E-07	4.81E-08	1.16E-09	0.00E+00	4.92E-08
1960	458184.7	3769006	4.29E-07	2.03E-08	0.00E+00	4.49E-07	4.29E-07	2.03E-08	0.00E+00	4.49E-07	1.28E-07	3.65E-09	0.00E+00	1.32E-07	4.86E-08	1.18E-09	0.00E+00	4.98E-08
1961	458194.7	3769006	4.34E-07	2.05E-08	0.00E+00	4.54E-07	4.34E-07	2.05E-08	0.00E+00	4.54E-07	1.30E-07	3.69E-09	0.00E+00	1.34E-07	4.92E-08	1.19E-09	0.00E+00	5.04E-08
1962	458204.7	3769006	4.39E-07	2.08E-08	0.00E+00	4.60E-07	4.39E-07	2.08E-08	0.00E+00	4.60E-07	1.32E-07	3.74E-09	0.00E+00	1.35E-07	4.98E-08	1.21E-09	0.00E+00	5.10E-08
1963	458214.7	3769006	4.45E-07	2.11E-08	0.00E+00	4.66E-07	4.45E-07	2.11E-08	0.00E+00	4.66E-07	1.33E-07	3.79E-09	0.00E+00	1.37E-07	5.05E-08	1.22E-09	0.00E+00	5.17E-08
1964	458224.7	3769006	4.51E-07	2.13E-08	0.00E+00	4.72E-07	4.51E-07	2.13E-08	0.00E+00	4.72E-07	1.35E-07	3.84E-09	0.00E+00	1.39E-07	5.11E-08	1.24E-09	0.00E+00	5.24E-08
1965	458234.7	3769006	4.56E-07	2.16E-08	0.00E+00	4.78E-07	4.56E-07	2.16E-08	0.00E+00	4.78E-07	1.37E-07	3.88E-09	0.00E+00	1.41E-07	5.18E-08	1.25E-09	0.00E+00	5.30E-08
1966	458034.7	3769016	3.29E-07	1.56E-08	0.00E+00	3.45E-07	3.29E-07	1.56E-08	0.00E+00	3.45E-07	9.86E-08	2.80E-09	0.00E+00	1.01E-07	3.74E-08	9.05E-10	0.00E+00	3.83E-08
1967	458044.7	3769016	3.34E-07	1.58E-08	0.00E+00	3.50E-07	3.34E-07	1.58E-08	0.00E+00	3.50E-07	1.00E-07	2.85E-09	0.00E+00	1.03E-07	3.79E-08	9.19E-10	0.00E+00	3.88E-08
1968	458054.7	3769016	3.4E-07	1.61E-08	0.00E+00	3.56E-07	3.40E-07	1.61E-08	0.00E+00	3.56E-07	1.02E-07	2.89E-09	0.00E+00	1.05E-07	3.86E-08	9.34E-10	0.00E+00	3.95E-08
1969	458064.7	3769016	3.46E-07	1.64E-08	0.00E+00	3.62E-07	3.46E-07	1.64E-08	0.00E+00	3.62E-07	1.04E-07	2.94E-09	0.00E+00	1.06E-07	3.92E-08	9.50E-10	0.00E+00	4.02E-08
1970	458074.7	3769016	3.52E-07	1.66E-08	0.00E+00	3.68E-07	3.52E-07	1.66E-08	0.00E+00	3.68E-07	1.05E-07	2.99E-09	0.00E+00	1.08E-07	3.99E-08	9.66E-10	0.00E+00	4.09E-08
1971	458084.7	3769016	3.58E-07	1.69E-08	0.00E+00	3.74E-07	3.58E-07	1.69E-08	0.00E+00	3.74E-07	1.07E-07	3.04E-09	0.00E+00	1.10E-07	4.06E-08	9.83E-10	0.00E+00	4.15E-08
1972	458094.7	3769016	3.64E-07	1.72E-08	0.00E+00	3.81E-07	3.64E-07	1.72E-08	0.00E+00	3.81E-07	1.09E-07	3.09E-09	0.00E+00	1.12E-07	4.12E-08	9.99E-10	0.00E+00	4.22E-08
1973	458104.7	3769016	3.7E-07	1.75E-08	0.00E+00	3.87E-07	3.70E-07	1.75E-08	0.00E+00	3.87E-07	1.11E-07	3.15E-09	0.00E+00	1.14E-07	4.19E-08	1.02E-09	0.00E+00	4.29E-08
1974	458144.7	3769016	3.93E-07	1.86E-08	0.00E+00	4.11E-07	3.93E-07	1.86E-08	0.00E+00	4.11E-07	1.18E-07	3.34E-09	0.00E+00	1.21E-07	4.45E-08	1.08E-09	0.00E+00	4.56E-08
1975	458154.7	3769016	3.99E-07	1.89E-08	0.00E+00	4.17E-07	3.99E-07	1.89E-08	0.00E+00	4.17E-07	1.19E-07	3.39E-09	0.00E+00	1.23E-07	4.52E-08	1.10E-09	0.00E+00	4.63E-08
1976	458164.7	3769016	4.05E-07	1.92E-08	0.00E+00	4.24E-07	4.05E-07	1.92E-08	0.00E+00	4.24E-07	1.21E-07	3.44E-09	0.00E+00	1.25E-07	4.59E-08	1.11E-09	0.00E+00	4.70E-08
1977	458174.7	3769016	4.1E-07	1.94E-08	0.00E+00	4.30E-07	4.10E-07	1.94E-08	0.00E+00	4.30E-07	1.23E-07	3.49E-09	0.00E+00	1.26E-07	4.65E-08	1.13E-09	0.00E+00	4.77E-08

1978	458184.7	3769016	4.15E-07	1.97E-08	0.00E+00	4.35E-07	4.15E-07	1.97E-08	0.00E+00	4.35E-07	1.24E-07	3.54E-09	0.00E+00	1.28E-07	4.71E-08	1.14E-09	0.00E+00	4.83E-08
1979	458194.7	3769016	4.2E-07	1.99E-08	0.00E+00	4.40E-07	4.20E-07	1.99E-08	0.00E+00	4.40E-07	1.26E-07	3.58E-09	0.00E+00	1.30E-07	4.77E-08	1.16E-09	0.00E+00	4.89E-08
1980	458204.7	3769016	4.26E-07	2.02E-08	0.00E+00	4.46E-07	4.26E-07	2.02E-08	0.00E+00	4.46E-07	1.28E-07	3.63E-09	0.00E+00	1.31E-07	4.83E-08	1.17E-09	0.00E+00	4.95E-08
1981	458214.7	3769016	4.32E-07	2.04E-08	0.00E+00	4.52E-07	4.32E-07	2.04E-08	0.00E+00	4.52E-07	1.29E-07	3.67E-09	0.00E+00	1.33E-07	4.90E-08	1.19E-09	0.00E+00	5.02E-08
1982	458224.7	3769016	4.37E-07	2.07E-08	0.00E+00	4.58E-07	4.37E-07	2.07E-08	0.00E+00	4.58E-07	1.31E-07	3.72E-09	0.00E+00	1.35E-07	4.96E-08	1.20E-09	0.00E+00	5.08E-08
1983	458234.7	3769016	4.43E-07	2.1E-08	0.00E+00	4.64E-07	4.43E-07	2.10E-08	0.00E+00	4.64E-07	1.33E-07	3.77E-09	0.00E+00	1.36E-07	5.02E-08	1.22E-09	0.00E+00	5.14E-08
1984	458034.7	3769026	3.19E-07	1.51E-08	0.00E+00	3.34E-07	3.19E-07	1.51E-08	0.00E+00	3.34E-07	9.55E-08	2.71E-09	0.00E+00	9.82E-08	3.62E-08	8.76E-10	0.00E+00	3.70E-08
1985	458044.7	3769026	3.24E-07	1.53E-08	0.00E+00	3.39E-07	3.24E-07	1.53E-08	0.00E+00	3.39E-07	9.70E-08	2.76E-09	0.00E+00	9.98E-08	3.68E-08	8.90E-10	0.00E+00	3.76E-08
1986	458054.7	3769026	3.29E-07	1.56E-08	0.00E+00	3.45E-07	3.29E-07	1.56E-08	0.00E+00	3.45E-07	9.87E-08	2.80E-09	0.00E+00	1.01E-07	3.74E-08	9.05E-10	0.00E+00	3.83E-08
1987	458064.7	3769026	3.35E-07	1.59E-08	0.00E+00	3.51E-07	3.35E-07	1.59E-08	0.00E+00	3.51E-07	1.00E-07	2.85E-09	0.00E+00	1.03E-07	3.80E-08	9.21E-10	0.00E+00	3.89E-08
1988	458074.7	3769026	3.41E-07	1.61E-08	0.00E+00	3.57E-07	3.41E-07	1.61E-08	0.00E+00	3.57E-07	1.02E-07	2.90E-09	0.00E+00	1.05E-07	3.87E-08	9.37E-10	0.00E+00	3.96E-08
1989	458084.7	3769026	3.47E-07	1.64E-08	0.00E+00	3.63E-07	3.47E-07	1.64E-08	0.00E+00	3.63E-07	1.04E-07	2.95E-09	0.00E+00	1.07E-07	3.93E-08	9.53E-10	0.00E+00	4.03E-08
1990	458094.7	3769026	3.52E-07	1.67E-08	0.00E+00	3.69E-07	3.52E-07	1.67E-08	0.00E+00	3.69E-07	1.06E-07	3.00E-09	0.00E+00	1.09E-07	4.00E-08	9.69E-10	0.00E+00	4.10E-08
1991	458104.7	3769026	3.58E-07	1.7E-08	0.00E+00	3.75E-07	3.58E-07	1.70E-08	0.00E+00	3.75E-07	1.07E-07	3.05E-09	0.00E+00	1.10E-07	4.06E-08	9.84E-10	0.00E+00	4.16E-08
1992	458144.7	3769026	3.8E-07	1.8E-08	0.00E+00	3.98E-07	3.80E-07	1.80E-08	0.00E+00	3.98E-07	1.14E-07	3.23E-09	0.00E+00	1.17E-07	4.31E-08	1.04E-09	0.00E+00	4.41E-08
1993	458154.7	3769026	3.86E-07	1.83E-08	0.00E+00	4.04E-07	3.86E-07	1.83E-08	0.00E+00	4.04E-07	1.15E-07	3.28E-09	0.00E+00	1.19E-07	4.37E-08	1.06E-09	0.00E+00	4.48E-08
1994	458164.7	3769026	3.91E-07	1.85E-08	0.00E+00	4.10E-07	3.91E-07	1.85E-08	0.00E+00	4.10E-07	1.17E-07	3.33E-09	0.00E+00	1.21E-07	4.44E-08	1.08E-09	0.00E+00	4.55E-08
1995	458174.7	3769026	3.97E-07	1.88E-08	0.00E+00	4.16E-07	3.97E-07	1.88E-08	0.00E+00	4.16E-07	1.19E-07	3.38E-09	0.00E+00	1.22E-07	4.50E-08	1.09E-09	0.00E+00	4.61E-08
1996	458184.7	3769026	4.02E-07	1.91E-08	0.00E+00	4.21E-07	4.02E-07	1.91E-08	0.00E+00	4.21E-07	1.21E-07	3.43E-09	0.00E+00	1.24E-07	4.57E-08	1.11E-09	0.00E+00	4.68E-08
1997	458194.7	3769026	4.08E-07	1.93E-08	0.00E+00	4.27E-07	4.08E-07	1.93E-08	0.00E+00	4.27E-07	1.22E-07	3.47E-09	0.00E+00	1.26E-07	4.63E-08	1.12E-09	0.00E+00	4.74E-08
1998	458204.7	3769026	4.13E-07	1.96E-08	0.00E+00	4.33E-07	4.13E-07	1.96E-08	0.00E+00	4.33E-07	1.24E-07	3.52E-09	0.00E+00	1.27E-07	4.69E-08	1.14E-09	0.00E+00	4.80E-08
1999	458214.7	3769026	4.19E-07	1.98E-08	0.00E+00	4.39E-07	4.19E-07	1.98E-08	0.00E+00	4.39E-07	1.25E-07	3.57E-09	0.00E+00	1.29E-07	4.75E-08	1.15E-09	0.00E+00	4.87E-08
2000	458224.7	3769026	4.24E-07	2.01E-08	0.00E+00	4.44E-07	4.24E-07	2.01E-08	0.00E+00	4.44E-07	1.27E-07	3.61E-09	0.00E+00	1.31E-07	4.81E-08	1.17E-09	0.00E+00	4.93E-08
2001	458234.7	3769026	4.3E-07	2.04E-08	0.00E+00	4.50E-07	4.30E-07	2.04E-08	0.00E+00	4.50E-07	1.29E-07	3.66E-09	0.00E+00	1.32E-07	4.88E-08	1.18E-09	0.00E+00	4.99E-08
2002	458034.7	3769036	3.09E-07	1.46E-08	0.00E+00	3.23E-07	3.09E-07	1.46E-08	0.00E+00	3.23E-07	9.25E-08	2.63E-09	0.00E+00	9.51E-08	3.50E-08	8.48E-10	0.00E+00	3.59E-08
2003	458044.7	3769036	3.14E-07	1.49E-08	0.00E+00	3.29E-07	3.14E-07	1.49E-08	0.00E+00	3.29E-07	9.41E-08	2.67E-09	0.00E+00	9.67E-08	3.56E-08	8.63E-10	0.00E+00	3.65E-08
2004	458054.7	3769036	3.2E-07	1.51E-08	0.00E+00	3.35E-07	3.20E-07	1.51E-08	0.00E+00	3.35E-07	9.57E-08	2.72E-09	0.00E+00	9.84E-08	3.63E-08	8.78E-10	0.00E+00	3.71E-08
2005	458064.7	3769036	3.25E-07	1.54E-08	0.00E+00	3.40E-07	3.25E-07	1.54E-08	0.00E+00	3.40E-07	9.73E-08	2.77E-09	0.00E+00	1.00E-07	3.69E-08	8.93E-10	0.00E+00	3.78E-08
2006	458074.7	3769036	3.31E-07	1.57E-08	0.00E+00	3.46E-07	3.31E-07	1.57E-08	0.00E+00	3.46E-07	9.90E-08	2.81E-09	0.00E+00	1.02E-07	3.75E-08	9.08E-10	0.00E+00	3.84E-08
2007	458084.7	3769036	3.36E-07	1.59E-08	0.00E+00	3.52E-07	3.36E-07	1.59E-08	0.00E+00	3.52E-07	1.01E-07	2.86E-09	0.00E+00	1.04E-07	3.81E-08	9.24E-10	0.00E+00	3.91E-08
2008	458094.7	3769036	3.42E-07	1.62E-08	0.00E+00	3.58E-07	3.42E-07	1.62E-08	0.00E+00	3.58E-07	1.02E-07	2.91E-09	0.00E+00	1.05E-07	3.88E-08	9.39E-10	0.00E+00	3.97E-08
2009	458104.7	3769036	3.47E-07	1.64E-08	0.00E+00	3.64E-07	3.47E-07	1.64E-08	0.00E+00	3.64E-07	1.04E-07	2.96E-09	0.00E+00	1.07E-07	3.94E-08	9.55E-10	0.00E+00	4.04E-08
2010	458034.7	3769046	3E-07	1.42E-08	0.00E+00	3.14E-07	3.00E-07	1.42E-08	0.00E+00	3.14E-07	8.97E-08	2.55E-09	0.00E+00	9.23E-08	3.40E-08	8.23E-10	0.00E+00	3.48E-08
2011	458044.7	3769046	3.05E-07	1.44E-08	0.00E+00	3.19E-07	3.05E-07	1.44E-08	0.00E+00	3.19E-07	9.13E-08	2.59E-09	0.00E+00	9.39E-08	3.46E-08	8.38E-10	0.00E+00	3.54E-08
2012	458054.7	3769046	3.1E-07	1.47E-08	0.00E+00	3.25E-07	3.10E-07	1.47E-08	0.00E+00	3.25E-07	9.28E-08	2.64E-09	0.00E+00	9.54E-08	3.52E-08	8.52E-10	0.00E+00	3.60E-08
2013	458064.7	3769046	3.15E-07	1.49E-08	0.00E+00	3.30E-07	3.15E-07	1.49E-08	0.00E+00	3.30E-07	9.43E-08	2.68E-09	0.00E+00	9.70E-08	3.57E-08	8.65E-10	0.00E+00	3.66E-08
2014	458074.7	3769046	3.2E-07	1.51E-08	0.00E+00	3.35E-07	3.20E-07	1.51E-08	0.00E+00	3.35E-07	9.58E-08	2.72E-09	0.00E+00	9.86E-08	3.63E-08	8.79E-10	0.00E+00	3.72E-08
2015	458084.7	3769046	3.25E-07	1.54E-08	0.00E+00	3.41E-07	3.25E-07	1.54E-08	0.00E+00	3.41E-07	9.74E-08	2.77E-09	0.00E+00	1.00E-07	3.69E-08	8.94E-10	0.00E+00	3.78E-08
2016	458094.7	3769046	3.31E-07	1.57E-08	0.00E+00	3.46E-07	3.31E-07	1.57E-08	0.00E+00	3.46E-07	9.90E-08	2.81E-09	0.00E+00	1.02E-07	3.75E-08	9.09E-10	0.00E+00	3.84E-08
2017	458104.7	3769046	3.36E-07	1.59E-08	0.00E+00	3.52E-07	3.36E-07	1.59E-08	0.00E+00	3.52E-07	1.01E-07	2.86E-09	0.00E+00	1.04E-07	3.81E-08	9.24E-10	0.00E+00	3.91E-08
2018	458034.7	3769056	2.91E-07	1.38E-08	0.00E+00	3.05E-07	2.91E-07	1.38E-08	0.00E+00	3.05E-07	8.71E-08	2.48E-09	0.00E+00	8.96E-08	3.30E-08	7.99E-10	0.00E+00	3.38E-08
2019	458044.7	3769056	2.96E-07	1.4E-08	0.00E+00	3.10E-07	2.96E-07	1.40E-08	0.00E+00	3.10E-07	8.86E-08	2.52E-09	0.00E+00	9.11E-08	3.36E-08	8.13E-10	0.00E+00	3.44E-08
2020	458054.7	3769056	3.01E-07	1.42E-08	0.00E+00	3.15E-07	3.01E-07	1.42E-08	0.00E+00	3.15E-07	9.00E-08	2.56E-09	0.00E+00	9.26E-08	3.41E-08	8.26E-10	0.00E+00	3.49E-08
2021	458064.7	3769056	3.05E-07	1.44E-08	0.00E+00	3.20E-07	3.05E-07	1.44E-08	0.00E+00	3.20E-07	9.14E-08	2.60E-09	0.00E+00	9.40E-08	3.46E-08	8.39E-10	0.00E+00	3.55E-08
2022	458074.7	3769056	3.1E-07	1.47E-08	0.00E+00	3.24E-07	3.10E-07	1.47E-08	0.00E+00	3.24E-07	9.28E-08	2.64E-09	0.00E+00	9.54E-08	3.51E-08	8.51E-10	0.00E+00	3.60E-08
2023	458084.7	3769056	3.15E-07	1.49E-08	0.00E+00	3.30E-07	3.15E-07	1.49E-08	0.00E+00	3.30E-07	9.42E-08	2.68E-09	0.00E+00	9.69E-08	3.57E-08	8.65E-10	0.00E+00	3.66E-08
2024	458094.7	3769056	3.2E-07	1.51E-08	0.00E+00	3.35E-07	3.20E-07	1.51E-08	0.00E+00	3.35E-07	9.58E-08	2.72E-09	0.00E+00	9.85E-08	3.63E-08	8.79E-10	0.00E+00	3.72E-08
2025	458104.7	3769056	3.25E-07	1.54E-08	0.00E+00	3.41E-07	3.25E-07	1.54E-08	0.00E+00	3.41E-07	9.74E-08	2.77E-09	0.00E+00	1.00E-07	3.69E-08	8.94E-10	0.00E+00	3.78E-08
2026	458034.7	3769066	2.82E-07	1.34E-08	0.00E+00	2.96E-07	2.82E-07	1.34E-08	0.00E+00	2.96E-07	8.46E-08	2.40E-09	0.00E+00	8.70E-08	3.20E-08	7.76E-10	0.00E+00	3.28E-08
2027	458044.7	3769066	2.87E-07	1.36E-08	0.00E+00	3.01E-07	2.87E-07	1.36E-08	0.00E+00	3.01E-07	8.60E-08	2.45E-09	0.00E+00	8.85E-08	3.26E-08	7.89E-10	0.00E+00	3.34E-08
2028	458054.7	3769066	2.92E-07	1.38E-08	0.00E+00	3.06E-07	2.92E-07	1.38E-08	0.00E+00	3.06E-07	8.74E-08	2.48E-09	0.00E+00	8.99E-08	3.31E-08	8.02E-10	0.00E+00	3.39E-08
2029	458064.7	3769066	2.96E-07	1.4E-08	0.00E+00	3.10E-07	2.96E-07	1.40E-08	0.00E+00	3.10E-07	8.86E-08	2.52E-09	0.00E+00	9.11E-08	3.36E-08	8.13E-10	0.00E+00	3.44E-08
2030	458074.7	3769066	3E-07	1.42E-08	0.00E+00	3.14E-07	3.00E-07	1.42E-08	0.00E+00	3.14E-07	8.98E-08	2.55E-09	0.00E+00	9.24E-08	3.40E-08	8.24E-10	0.00E+00	3.49E-08
2031	458084.7	3769066	3.05E-07	1.44E-08	0.00E+00	3.19E-07	3.05E-07	1.44E-08	0.00E+00	3.19E-07	9.12E-08	2.59E-09	0.00E+00	9.38E-08	3.46E-08	8.37E-10	0.00E+00	3.54E-08
2032	458094.7	3769066	3.1E-07	1.47E-08	0.00E+00	3.24E-07	3.10E-07	1.47E-08	0.00E+00	3.24E-07	9.28E-08	2.64E-09	0.00E+00	9.54E-08	3.51E-08	8.51E-10	0.00E+00	3.60E-08
2033	458104.7	3769066	3.15E-07	1.49E-08	0.00E+00	3.30E-07	3.15E-07	1.49E-08	0.00E+00	3.30E-07	9.43E-08	2.68E-09	0.00E+00	9.70E-08	3.57E-08	8.65E-10	0.00E+00	3.66E-08
2034	458034.7	3769076	2.74E-07	1.3E-08	0.00E+00	2.87E-07	2.74E-07	1.30E-08	0.00E+00	2.87E-07	8.21E-08	2.33E-09	0.00E+00	8.44E-08	3.11E-08	7.53E-10	0.00E+00	3.18E-08
2035	458044.7	3769076	2.78E-07	1.32E-08	0.00E+00	2.92E-07	2.78E-07	1.32E-08	0.00E+00	2.92E-07	8.34E-08	2.37E-09	0.00E+00	8.58E-08	3.16E-08	7.65E-10	0.00E+00	3.24E-08
2036	458054.7	3769076	2.83E-07	1.34E-08	0.00E+00	2.96E-07	2.83E-07	1.34E-08	0.00E+00	2.96E-07	8.47E-08	2.41E-09	0.00E+00	8.71E-08	3.21E-08	7.77E-10	0.00E+00	3.29E-08
2037	458064.7	3769076	2.87E-07	1.36E-08	0.00E+00	3.00E-07	2.87E-07	1.36E-08	0.00E+00	3.00E-07	8.59E-08	2.44E-09	0.00E+00	8.84E-08	3.26E-08	7.88E-10	0.00E+00	3.33E-08
2038	458074.7	3769076	2.91E-07	1.38E-08	0.00E+00	3.05E-07	2.91E-07	1.38E-08	0.00E+00	3.05E-07	8.72E-08	2.48E-09	0.00E+00	8.97E-08	3.30E-08	8.00E-10	0.00E+00	3.38E-08
2039	458084.7	3769076	2.96E-07	1.4E-08	0.00E+00	3.10E-07	2.96E-07	1.40E-08	0.00E+00	3.10E-07	8.86E-08	2.52E-09	0.00E+00	9.11E-08	3.36E-08	8.13E-10	0.00E+00	3.44E-08
2040	458094.7	3769076	3.01E-07	1.42E-08	0.00E+00	3.15E-07	3.01E-07	1.42E-08	0.00E+00	3.15E-07	9.00E-08	2.56E-09	0.00E+00	9.26E-08	3.41E-08	8.26E-10	0.00E+00	3.49E-08
2041	458104.7	3769076	3.06E-07	1.45E-08	0.00E+00	3.20E-07	3.06E-07	1.45E-08	0.00E+00	3.20E-07	9.15E-08	2.60E-09	0.00E+00	9.41E-08	3.47E-08	8.40E-10	0.00E+00	3.55E-08
2042	458034.7	3769086	2.66E-07	1.26E-08	0.00E+00	2.79E-07	2.66E-07	1.26E-08	0.00E+00	2.79E-07	7.97E-08	2.26E-09	0.00E+00	8.19E-08	3.02E-08	7.31E-10	0.00E+00	3.09E-08
2043	458044.7	3769086	2.7E-07	1.28E-08	0.00E+00	2.83E-07	2.70E-07	1.28E-08	0.00E+00	2.83E-07	8.08E-08	2.30E-09	0.00E+00	8.31E-08	3.06E-08	7.42E-10	0.00E+00	3.14E-08
2044	458054.7	3769086	2.74E-07	1.3E-08	0.00E+00	2.87E-07	2.74E-07	1.30E-08	0.00E+00	2.87E-07	8.21E-08	2.33E-09	0.00E+00	8.44E-08	3.11E-08	7.53E-10	0.00E+00	3.18E-08
2045	458064.7	3769086	2.78E-07	1.32E-08	0.00E+00	2.92E-07	2.78E-07	1.32E-08	0.00E+00	2.92E-07	8.34E-08	2.37E-09	0.00E+00	8.57E-08	3.16E-08	7.65E-10	0.00E+00	3.23E-08
2046	458074.7	3769086	2.83E-07	1.34E-08	0.00E+00	2.96E-07	2.83E-07	1.34E-08	0.00E+00	2.96E-07	8.47E-08	2.41E-09	0.00E+00	8.71E-08	3.21E-08	7.77E-10	0.00E+00	3.29E-08
2047	458084.7	3769086	2.87E-07	1.36E-08	0.00E+00	3.01E-07	2.87E-07	1.36E-08	0.00E+00	3.01E-07	8.60E-08	2.45E-09	0.00E+00	8.85E-08	3.26E-08	7.90E-10	0.00E+00	3.34E-08
2048	458094.7	3769086	2.92E-07	1.38E-08	0.00E+00	3.06E-07	2.92E-07	1.38E-08	0.00E+00	3.06E-07	8.75E-08	2.49E-09	0.00E+00	9.00E-08	3.31E-08	8.03E-10	0.00E+00	3.39E-08
2049	458104.7	3769086	2.97E-07	1.41E-08	0.00E+00	3.11E-07	2.97E-07	1.41E-08	0.00E+00	3.11E-07	8.89E-08	2.53E-09	0.00E+00	9.14E-08	3.37E-08	8.16E-10	0.00E+00	3.45E-08
2050	458034.7	3769096	2.58E-07	1.22E-08	0.00E+00	2.70E-07	2.58E-07	1.22E-08	0.00E+00	2.70E-07	7.73E-08	2.20E-09	0.00E+00	7.95E-08	2.93E-08	7.10E-10	0.00E+00	3.00E-08
2051	458044.7	3769096	2.62E-07	1.24E-08	0.00E+00	2.74E-07	2.62E-07	1.24E-08	0.00E+00	2.74E-07	7.84E-08	2.23E-09	0.00E+00	8.06E-08	2.97E-08	7.19E-10	0.00E+00	3.04E-08
2052	458054.7	3769096	2.66E-07	1.26E-08	0.00E+00	2.78E-07	2.66E-07	1.26E-08	0.00E+00	2.78E-07	7.96E-08	2.26E-09	0.00E+00	8.19E-08	3.02E-08	7.30E-10	0.00E+00	3.09E-08
2053	458064.7	3769096	2.7E-07	1.28E-08	0.00E+00	2.83E-07	2.70E-07	1.28E-08	0.00E+00	2.83E-07	8.09E-08	2.30E-09	0.00E+00	8.32E-08	3.07E-08	7.42E-10	0.00E+00	3.14E-08
2054	458074.7	3769096	2.75E-07	1.3E-08	0.00E+00	2.88E-07	2.75E-07	1.30E-08	0.00E+00	2.88E-07	8.23E-08	2.34E-09	0.00E+00	8.46E-08	3.12E-08	7.55E-10	0.00E+00	3.19E-08
2055	458084.7	3769096	2.79E-07	1.32E-08	0.00E+00	2.92E-07	2.79E-07	1.32E-08	0.00E+00	2.92E-07	8.36E-08	2.38E-09	0.00E+00	8.60E-08	3.17E-08	7.67E-10	0.00E+00	3.24E-08
2056	458094.7	3769096	2.84E-07	1.34E-08	0.00E+00	2.97E-07	2.84E-07	1.34E-08	0.00E+00	2.97E-07	8.50E-08	2.42E-09	0.00E+00	8.74E-08	3.22E-08	7.80E-10	0.00E+00	3.30E-08
2057	458104.7	3769096	2.88E-07	1.37E-08	0.00E+00	3.02E-07	2.88E-07	1.37E-08	0.00E+00	3.02E-07	8.64E-08	2.46E-09	0.00E+00	8.88E-08	3.27E-08	7.93E-10	0.00E+00	3.35E-08
2058	458034.7	3769106	2.51E-07	1.19E-08	0.00E+00	2.63E-07	2.51E-07	1.19E-08	0.00E+00	2.63E-07	7.51E-08	2.14E-09	0.00E+00	7.73E-08	2.85E-08	6.89E-10	0.00E+00	2.91E-08
2059	458044.7	3769106	2.54E-07	1.2E-08	0.00E+00	2.66E-07	2.54E-07	1.20E-08	0.00E+00	2.66E-07	7.62E-08	2.17E-09	0.00E+00	7.84E-08	2.89E-08	6.99E-10	0.00E+00	2.96E-08
2060	458054.7	3769106	2.58E-07	1.22E-08	0.00E+00	2.71E-07	2.58E-07	1.22E-08	0.00E+00	2.71E-07	7.74E-08	2.20E-09	0.00E+00	7.96E-08	2.93E-08	7.10E-10	0.00E+00	3.00E-08
2061	458064.7	3769106	2.63E-07	1.24E-08	0.00E+00	2.75E-07	2.63E-07	1.24E-08	0.00E+00	2.75E-07	7.87E-08	2.24E-09	0.00E+00	8.09E-08	2.98E-08	7.22E-10	0.00E+00	3.05E-08
2062	458074.7	3769106	2.67E-07	1.26E-08	0.00E+00	2.80E-07	2.67E-07	1.26E-08	0.00E+00	2.80E-07	8.00E-08	2.27E-09	0.00E+00	8.22E-08	3.03E-08	7.34E-10	0.00E+00	3.10E-08
2063	458084.7	3769106	2.71E-07	1.28E-08	0.00E+00	2.84E-07	2.71E-07	1.28E-08	0.00E+00	2.84E-07	8.13E-08	2.31E-09	0.00E+00	8.36E-08	3.08E-08	7.46E-10	0.00E+00	3.15E-08
2064	458094.7	3769106	2.76E-07	1.31E-08	0.00E+00	2.89E-07	2.76E-07	1.31E-08	0.00E+00	2.89E-07	8.26E-08	2.35E-09	0.00E+00	8.50E-08	3.13E-08	7.58E-10	0.00E+00	3.20E-08
2065	458104.7	3769106	2.8E-07	1.33E-08	0.00E+00	2.94E-07	2.80E-07	1.33E-08	0.00E+00	2.94E-07	8.40E-08	2.39E-09	0.00E+00	8.63E-08	3.18E-08	7.70E-10	0.00E+00	3.26E-08
2066	458034.7	3769116	2.44E-07	1.15E-08	0.00E+00	2.55E-07	2.44E-07	1.15E-08	0.00E+00	2.55E-07	7.30E-08	2.07E-09	0.00E+00	7.51E-08	2.76E-08	6.70E-10	0.00E+00	2.83E-08
2067	458044.7	3769116	2.47E-07	1.17E-08	0.00E+00	2.59E-07	2.47E-07	1.17E-08	0.00E+00	2.59E-07	7.41E-08	2.11E-09	0.00E+00	7.62E-08	2.81E-08	6.80E-10	0.00E+00	2.88E-08
2068	458054.7	3769116	2.51E-07	1.19E-08	0.00E+00	2.63E-07	2.51E-07	1.19E-08	0.00E+00	2.63E-07	7.53E-08	2.14E-09	0.00E+00	7.74E-08	2.85E-08	6.91E-10	0.00E+00	2.92E-08
2069	458064.7	3769116	2.55E-07	1.21E-08	0.00E+00	2.68E-07	2.55E-07	1.21E-08	0.00E+00	2.68E-07	7.65E-08	2.17E-09	0.00E+00	7.87E-08	2.90E-08	7.02E-10	0.00E+00	2.97E-08
2070	458074.7	3769116	2.6E-07	1.23E-08	0.00E+00	2.72E-07	2.60E-07	1.23E-08	0.00E+00	2.72E-07	7.78E-08	2.21E-09	0.00E+00	8.00E-08	2.95E-08	7.14E-10	0.00E+00	3.02E-08
2071	458084.7	3769116	2.64E-07	1.25E-08	0.00E+00	2.76E-07	2.64E-07	1.25E-08	0.00E+00	2.76E-07	7.90E-08	2.25E-09	0.00E+00	8.13E-08	2.99E-08	7.25E-10	0.00E+00	3.07E-08
2072	458094.7	3769116	2.68E-07	1.27E-08	0.00E+00	2.81E-07	2.68E-07	1.27E-08	0.00E+00	2.81E-07	8.03E-08	2.28E-09	0.00E+00	8.26E-08	3.04E-08	7.37E-10	0.00E+00	3.12E-08
2073	458104.7	3769116	2.73E-07	1.29E-08	0.00E+00	2.85E-07	2.73E-07	1.29E-08	0.00E+00	2.85E-07	8.16E-08	2.32E-09	0.00E+00	8.39E-08	3.09E-08	7.49E-10	0.00E+00	3.17E-08
2074	458034.7	3769126	2.37E-07	1.12E-08	0.00E+00	2.48E-07	2.37E-07	1.12E-08	0.00E+00	2.48E-07	7.10E-08	2.02E-09	0.00E+00	7.30E-08	2.69E-08	6.51E-10	0.00E+00	2.75E-08
2075	458044.7	3769126	2.41E-07	1.14E-08	0.00E+00	2.52E-07	2.41E-07	1.14E-08	0.00E+00	2.52E-07	7.21E-08	2.05E-09	0.00E+00	7.41E-08	2.73E-08	6.62E-10	0.00E+00	2.80E-08
2076	458054.7	3769126	2.45E-07	1.16E-08	0.00E+00	2.56E-07	2.45E-07	1.16E-08	0.00E+00	2.56E-07	7.33E-08	2.08E-09	0.00E+00	7.53E-08	2.78E-08	6.72E-10	0.00E+00	2.84E-08
2077	458064.7	3769126	2.49E-07	1.18E-08	0.00E+00	2.60E-07	2.49E-07	1.18E-08	0.00E+00	2.60E-07	7.45E-08	2.12E-09	0.00E+00	7.66E-08	2.82E-08	6.83E-10	0.00E+00	2.89E-08
2078	458074.7	3769126	2.53E-07	1.2E-08	0.00E+00	2.65E-07	2.53E-07	1.20E-08	0.00E+00	2.65E-07	7.57E-08	2.15E-09	0.00E+00	7.78E-08	2.87E-08	6.94E-10	0.00E+00	2.94E-08
2079	458084.7	3769126	2.57E-07	1.22E-08	0.00E+00	2.69E-07	2.57E-07	1.22E-08	0.00E+00	2.69E-07	7.69E-08	2.19E-09	0.00E+00	7.91E-08	2.91E-08	7.05E-10	0.00E+00	2.98E-08
2080	458094.7	3769126	2.61E-07	1.24E-08	0.00E+00	2.73E-07	2.61E-07	1.24E-08	0.00E+00	2.73E-07	7.81E-08	2.22E-09	0.00E+00	8.03E-08	2.96E-08	7.17E-10	0.00E+00	3.03E-08
2081	458104.7	3769126	2.65E-07	1.25E-08	0.00E+00	2.78E-07	2.65E-07	1.25E-08	0.00E+00	2.78E-07	7.94E-08	2.26E-09	0.00E+00	8.16E-08	3.01E-08	7.28E-10	0.00E+00	3.08E-08
2082	458034.7	3769136	2.31E-07	1.09E-08	0.00E+00	2.42E-07	2.31E-07	1.09E-08	0.00E+00	2.42E-07	6.91E-08	1.96E-09	0.00E+00	7.11E-08	2.62E-08	6.34E-10	0.00E+00	2.68E-08
2083	458044.7	3769136	2.34E-07	1.11E-08	0.00E+00	2.45E-07	2.34E-07	1.11E-08	0.00E+00	2.45E-07	7.02E-08	2.00E-09	0.00E+00	7.22E-08	2.66E-08	6.44E-10	0.00E+00	2.72E-08
2084	458054.7	3769136	2.38E-07	1.13E-08	0.00E+00	2.49E-07	2.38E-07	1.13E-08	0.00E+00	2.49E-07	7.13E-08	2.03E-09	0.00E+00	7.34E-08	2.70E-08	6.54E-10	0.00E+00	2.77E-08
2085	458064.7	3769136	2.42E-07	1.15E-08	0.00E+00	2.53E-07	2.42E-07	1.15E-08	0.00E+00	2.53E-07	7.25E-08	2.06E-09	0.00E+00	7.45E-08	2.75E-08	6.65E-10	0.00E+00	2.81E-08
2086	458074.7	3769136	2.46E-07	1.16E-08	0.00E+00	2.57E-07	2.46E-07	1.16E-08	0.00E+00	2.57E-07	7.36E-08	2.09E-09	0.00E+00	7.57E-08	2.79E-08	6.76E-10	0.00E+00	2.86E-08
2087	458084.7	3769136	2.5E-07	1.18E-08	0.00E+00	2.62E-07	2.50E-07	1.18E-08	0.00E+00	2.62E-07	7.48E-08	2.13E-09	0.00E+00	7.69E-08	2.83E-08	6.86E-10	0.00E+00	2.90E-08

2088	458094.7	3769136	2.53E-07	1.2E-08	0.00E+00	2.65E-07	2.53E-07	1.20E-08	0.00E+00	2.65E-07	7.59E-08	2.16E-09	0.00E+00	7.81E-08	2.88E-08	6.97E-10	0.00E+00	2.95E-08
2089	458104.7	3769136	2.57E-07	1.22E-08	0.00E+00	2.69E-07	2.57E-07	1.22E-08	0.00E+00	2.69E-07	7.71E-08	2.19E-09	0.00E+00	7.93E-08	2.92E-08	7.07E-10	0.00E+00	2.99E-08
2090	458034.7	3769146	2.25E-07	1.06E-08	0.00E+00	2.35E-07	2.25E-07	1.06E-08	0.00E+00	2.35E-07	6.73E-08	1.91E-09	0.00E+00	6.92E-08	2.55E-08	6.18E-10	0.00E+00	2.61E-08
2091	458044.7	3769146	2.28E-07	1.08E-08	0.00E+00	2.39E-07	2.28E-07	1.08E-08	0.00E+00	2.39E-07	6.84E-08	1.94E-09	0.00E+00	7.03E-08	2.59E-08	6.27E-10	0.00E+00	2.65E-08
2092	458054.7	3769146	2.32E-07	1.1E-08	0.00E+00	2.43E-07	2.32E-07	1.10E-08	0.00E+00	2.43E-07	6.95E-08	1.97E-09	0.00E+00	7.14E-08	2.63E-08	6.37E-10	0.00E+00	2.69E-08
2093	458064.7	3769146	2.36E-07	1.12E-08	0.00E+00	2.47E-07	2.36E-07	1.12E-08	0.00E+00	2.47E-07	7.06E-08	2.01E-09	0.00E+00	7.26E-08	2.67E-08	6.47E-10	0.00E+00	2.74E-08
2094	458074.7	3769146	2.39E-07	1.13E-08	0.00E+00	2.51E-07	2.39E-07	1.13E-08	0.00E+00	2.51E-07	7.17E-08	2.04E-09	0.00E+00	7.37E-08	2.72E-08	6.58E-10	0.00E+00	2.78E-08
2095	458084.7	3769146	2.43E-07	1.15E-08	0.00E+00	2.54E-07	2.43E-07	1.15E-08	0.00E+00	2.54E-07	7.28E-08	2.07E-09	0.00E+00	7.48E-08	2.76E-08	6.68E-10	0.00E+00	2.82E-08
2096	458094.7	3769146	2.46E-07	1.17E-08	0.00E+00	2.58E-07	2.46E-07	1.17E-08	0.00E+00	2.58E-07	7.38E-08	2.10E-09	0.00E+00	7.59E-08	2.80E-08	6.77E-10	0.00E+00	2.86E-08
2097	458104.7	3769146	2.5E-07	1.18E-08	0.00E+00	2.62E-07	2.50E-07	1.18E-08	0.00E+00	2.62E-07	7.48E-08	2.13E-09	0.00E+00	7.70E-08	2.83E-08	6.87E-10	0.00E+00	2.90E-08
2098	458034.7	3769156	2.19E-07	1.04E-08	0.00E+00	2.29E-07	2.19E-07	1.04E-08	0.00E+00	2.29E-07	6.56E-08	1.86E-09	0.00E+00	6.75E-08	2.48E-08	6.02E-10	0.00E+00	2.54E-08
2099	458044.7	3769156	2.22E-07	1.05E-08	0.00E+00	2.33E-07	2.22E-07	1.05E-08	0.00E+00	2.33E-07	6.66E-08	1.89E-09	0.00E+00	6.85E-08	2.52E-08	6.11E-10	0.00E+00	2.58E-08
2100	458054.7	3769156	2.26E-07	1.07E-08	0.00E+00	2.37E-07	2.26E-07	1.07E-08	0.00E+00	2.37E-07	6.77E-08	1.92E-09	0.00E+00	6.96E-08	2.56E-08	6.21E-10	0.00E+00	2.63E-08
2101	458064.7	3769156	2.29E-07	1.09E-08	0.00E+00	2.40E-07	2.29E-07	1.09E-08	0.00E+00	2.40E-07	6.87E-08	1.95E-09	0.00E+00	7.07E-08	2.60E-08	6.31E-10	0.00E+00	2.67E-08
2102	458074.7	3769156	2.33E-07	1.1E-08	0.00E+00	2.44E-07	2.33E-07	1.10E-08	0.00E+00	2.44E-07	6.98E-08	1.98E-09	0.00E+00	7.18E-08	2.64E-08	6.41E-10	0.00E+00	2.71E-08
2103	458084.7	3769156	2.36E-07	1.12E-08	0.00E+00	2.48E-07	2.36E-07	1.12E-08	0.00E+00	2.48E-07	7.08E-08	2.01E-09	0.00E+00	7.28E-08	2.68E-08	6.50E-10	0.00E+00	2.75E-08
2104	458094.7	3769156	2.4E-07	1.13E-08	0.00E+00	2.51E-07	2.40E-07	1.13E-08	0.00E+00	2.51E-07	7.18E-08	2.04E-09	0.00E+00	7.38E-08	2.72E-08	6.58E-10	0.00E+00	2.78E-08
2105	458104.7	3769156	2.43E-07	1.15E-08	0.00E+00	2.54E-07	2.43E-07	1.15E-08	0.00E+00	2.54E-07	7.27E-08	2.07E-09	0.00E+00	7.48E-08	2.75E-08	6.67E-10	0.00E+00	2.82E-08
2106	458034.7	3769166	2.14E-07	1.01E-08	0.00E+00	2.24E-07	2.14E-07	1.01E-08	0.00E+00	2.24E-07	6.39E-08	1.82E-09	0.00E+00	6.58E-08	2.42E-08	5.87E-10	0.00E+00	2.48E-08
2107	458044.7	3769166	2.17E-07	1.03E-08	0.00E+00	2.27E-07	2.17E-07	1.03E-08	0.00E+00	2.27E-07	6.49E-08	1.85E-09	0.00E+00	6.68E-08	2.46E-08	5.96E-10	0.00E+00	2.52E-08
2108	458054.7	3769166	2.2E-07	1.04E-08	0.00E+00	2.31E-07	2.20E-07	1.04E-08	0.00E+00	2.31E-07	6.59E-08	1.87E-09	0.00E+00	6.78E-08	2.50E-08	6.05E-10	0.00E+00	2.56E-08
2109	458064.7	3769166	2.23E-07	1.06E-08	0.00E+00	2.34E-07	2.23E-07	1.06E-08	0.00E+00	2.34E-07	6.69E-08	1.90E-09	0.00E+00	6.88E-08	2.53E-08	6.14E-10	0.00E+00	2.60E-08
2110	458074.7	3769166	2.27E-07	1.07E-08	0.00E+00	2.37E-07	2.27E-07	1.07E-08	0.00E+00	2.37E-07	6.79E-08	1.93E-09	0.00E+00	6.98E-08	2.57E-08	6.23E-10	0.00E+00	2.63E-08
2111	458084.7	3769166	2.3E-07	1.09E-08	0.00E+00	2.41E-07	2.30E-07	1.09E-08	0.00E+00	2.41E-07	6.88E-08	1.96E-09	0.00E+00	7.08E-08	2.61E-08	6.32E-10	0.00E+00	2.67E-08
2112	458094.7	3769166	2.33E-07	1.1E-08	0.00E+00	2.44E-07	2.33E-07	1.10E-08	0.00E+00	2.44E-07	6.98E-08	1.98E-09	0.00E+00	7.18E-08	2.64E-08	6.40E-10	0.00E+00	2.71E-08
2113	458104.7	3769166	2.36E-07	1.12E-08	0.00E+00	2.47E-07	2.36E-07	1.12E-08	0.00E+00	2.47E-07	7.07E-08	2.01E-09	0.00E+00	7.28E-08	2.68E-08	6.49E-10	0.00E+00	2.74E-08
2114	458034.7	3769176	2.08E-07	9.86E-09	0.00E+00	2.18E-07	2.08E-07	9.86E-09	0.00E+00	2.18E-07	6.24E-08	1.77E-09	0.00E+00	6.41E-08	2.36E-08	5.72E-10	0.00E+00	2.42E-08
2115	458044.7	3769176	2.11E-07	1E-08	0.00E+00	2.21E-07	2.11E-07	1.00E-08	0.00E+00	2.21E-07	6.33E-08	1.80E-09	0.00E+00	6.51E-08	2.40E-08	5.81E-10	0.00E+00	2.46E-08
2116	458054.7	3769176	2.14E-07	1.02E-08	0.00E+00	2.25E-07	2.14E-07	1.02E-08	0.00E+00	2.25E-07	6.42E-08	1.83E-09	0.00E+00	6.61E-08	2.43E-08	5.89E-10	0.00E+00	2.49E-08
2117	458064.7	3769176	2.17E-07	1.03E-08	0.00E+00	2.28E-07	2.17E-07	1.03E-08	0.00E+00	2.28E-07	6.51E-08	1.85E-09	0.00E+00	6.70E-08	2.47E-08	5.97E-10	0.00E+00	2.53E-08
2118	458074.7	3769176	2.2E-07	1.04E-08	0.00E+00	2.31E-07	2.20E-07	1.04E-08	0.00E+00	2.31E-07	6.60E-08	1.88E-09	0.00E+00	6.79E-08	2.50E-08	6.06E-10	0.00E+00	2.56E-08
2119	458084.7	3769176	2.23E-07	1.06E-08	0.00E+00	2.34E-07	2.23E-07	1.06E-08	0.00E+00	2.34E-07	6.69E-08	1.90E-09	0.00E+00	6.88E-08	2.54E-08	6.14E-10	0.00E+00	2.60E-08
2120	458094.7	3769176	2.27E-07	1.07E-08	0.00E+00	2.37E-07	2.27E-07	1.07E-08	0.00E+00	2.37E-07	6.79E-08	1.93E-09	0.00E+00	6.98E-08	2.57E-08	6.23E-10	0.00E+00	2.63E-08
2121	458104.7	3769176	2.3E-07	1.09E-08	0.00E+00	2.41E-07	2.30E-07	1.09E-08	0.00E+00	2.41E-07	6.89E-08	1.96E-09	0.00E+00	7.09E-08	2.61E-08	6.32E-10	0.00E+00	2.67E-08
2122	458034.7	3769186	2.03E-07	9.62E-09	0.00E+00	2.13E-07	2.03E-07	9.62E-09	0.00E+00	2.13E-07	6.08E-08	1.73E-09	0.00E+00	6.26E-08	2.30E-08	5.58E-10	0.00E+00	2.36E-08
2123	458044.7	3769186	2.06E-07	9.76E-09	0.00E+00	2.16E-07	2.06E-07	9.76E-09	0.00E+00	2.16E-07	6.18E-08	1.76E-09	0.00E+00	6.35E-08	2.34E-08	5.67E-10	0.00E+00	2.40E-08
2124	458054.7	3769186	2.09E-07	9.9E-09	0.00E+00	2.19E-07	2.09E-07	9.90E-09	0.00E+00	2.19E-07	6.26E-08	1.78E-09	0.00E+00	6.44E-08	2.37E-08	5.75E-10	0.00E+00	2.43E-08
2125	458064.7	3769186	2.12E-07	1E-08	0.00E+00	2.22E-07	2.12E-07	1.00E-08	0.00E+00	2.22E-07	6.34E-08	1.80E-09	0.00E+00	6.52E-08	2.40E-08	5.82E-10	0.00E+00	2.46E-08
2126	458074.7	3769186	2.14E-07	1.01E-08	0.00E+00	2.25E-07	2.14E-07	1.01E-08	0.00E+00	2.25E-07	6.42E-08	1.82E-09	0.00E+00	6.60E-08	2.43E-08	5.89E-10	0.00E+00	2.49E-08
2127	458084.7	3769186	2.17E-07	1.03E-08	0.00E+00	2.28E-07	2.17E-07	1.03E-08	0.00E+00	2.28E-07	6.51E-08	1.85E-09	0.00E+00	6.70E-08	2.47E-08	5.97E-10	0.00E+00	2.53E-08
2128	458094.7	3769186	2.21E-07	1.04E-08	0.00E+00	2.31E-07	2.21E-07	1.04E-08	0.00E+00	2.31E-07	6.61E-08	1.88E-09	0.00E+00	6.80E-08	2.50E-08	6.07E-10	0.00E+00	2.56E-08
2129	458104.7	3769186	2.24E-07	1.06E-08	0.00E+00	2.35E-07	2.24E-07	1.06E-08	0.00E+00	2.35E-07	6.71E-08	1.91E-09	0.00E+00	6.90E-08	2.54E-08	6.16E-10	0.00E+00	2.60E-08
2130	458034.7	3769196	1.98E-07	9.36E-09	0.00E+00	2.07E-07	1.98E-07	9.36E-09	0.00E+00	2.07E-07	5.92E-08	1.68E-09	0.00E+00	6.09E-08	2.24E-08	5.43E-10	0.00E+00	2.30E-08
2131	458044.7	3769196	2.01E-07	9.5E-09	0.00E+00	2.10E-07	2.01E-07	9.50E-09	0.00E+00	2.10E-07	6.01E-08	1.71E-09	0.00E+00	6.18E-08	2.28E-08	5.52E-10	0.00E+00	2.33E-08
2132	458054.7	3769196	2.04E-07	9.64E-09	0.00E+00	2.13E-07	2.04E-07	9.64E-09	0.00E+00	2.13E-07	6.10E-08	1.73E-09	0.00E+00	6.27E-08	2.31E-08	5.59E-10	0.00E+00	2.36E-08
2133	458064.7	3769196	2.06E-07	9.76E-09	0.00E+00	2.16E-07	2.06E-07	9.76E-09	0.00E+00	2.16E-07	6.18E-08	1.76E-09	0.00E+00	6.35E-08	2.34E-08	5.67E-10	0.00E+00	2.40E-08
2134	458074.7	3769196	2.09E-07	9.89E-09	0.00E+00	2.19E-07	2.09E-07	9.89E-09	0.00E+00	2.19E-07	6.26E-08	1.78E-09	0.00E+00	6.44E-08	2.37E-08	5.74E-10	0.00E+00	2.43E-08
2135	458084.7	3769196	2.12E-07	1E-08	0.00E+00	2.22E-07	2.12E-07	1.00E-08	0.00E+00	2.22E-07	6.35E-08	1.80E-09	0.00E+00	6.53E-08	2.40E-08	5.82E-10	0.00E+00	2.46E-08
2136	458094.7	3769196	2.15E-07	1.02E-08	0.00E+00	2.25E-07	2.15E-07	1.02E-08	0.00E+00	2.25E-07	6.44E-08	1.83E-09	0.00E+00	6.63E-08	2.44E-08	5.91E-10	0.00E+00	2.50E-08
2137	458104.7	3769196	2.18E-07	1.03E-08	0.00E+00	2.29E-07	2.18E-07	1.03E-08	0.00E+00	2.29E-07	6.54E-08	1.86E-09	0.00E+00	6.73E-08	2.48E-08	6.00E-10	0.00E+00	2.54E-08
2138	458034.7	3769206	1.93E-07	9.12E-09	0.00E+00	2.02E-07	1.93E-07	9.12E-09	0.00E+00	2.02E-07	5.77E-08	1.64E-09	0.00E+00	5.93E-08	2.18E-08	5.29E-10	0.00E+00	2.24E-08
2139	458044.7	3769206	1.95E-07	9.25E-09	0.00E+00	2.05E-07	1.95E-07	9.25E-09	0.00E+00	2.05E-07	5.85E-08	1.66E-09	0.00E+00	6.02E-08	2.22E-08	5.37E-10	0.00E+00	2.27E-08
2140	458054.7	3769206	1.98E-07	9.38E-09	0.00E+00	2.08E-07	1.98E-07	9.38E-09	0.00E+00	2.08E-07	5.94E-08	1.69E-09	0.00E+00	6.10E-08	2.25E-08	5.45E-10	0.00E+00	2.30E-08
2141	458064.7	3769206	2.01E-07	9.51E-09	0.00E+00	2.10E-07	2.01E-07	9.51E-09	0.00E+00	2.10E-07	6.02E-08	1.71E-09	0.00E+00	6.19E-08	2.28E-08	5.52E-10	0.00E+00	2.33E-08
2142	458074.7	3769206	2.04E-07	9.65E-09	0.00E+00	2.13E-07	2.04E-07	9.65E-09	0.00E+00	2.13E-07	6.10E-08	1.73E-09	0.00E+00	6.28E-08	2.31E-08	5.60E-10	0.00E+00	2.37E-08
2143	458084.7	3769206	2.07E-07	9.79E-09	0.00E+00	2.17E-07	2.07E-07	9.79E-09	0.00E+00	2.17E-07	6.19E-08	1.76E-09	0.00E+00	6.37E-08	2.35E-08	5.68E-10	0.00E+00	2.40E-08
2144	458034.7	3769216	1.88E-07	8.88E-09	0.00E+00	1.96E-07	1.88E-07	8.88E-09	0.00E+00	1.96E-07	5.62E-08	1.60E-09	0.00E+00	5.78E-08	2.13E-08	5.15E-10	0.00E+00	2.18E-08
2145	458044.7	3769216	1.9E-07	9.01E-09	0.00E+00	1.99E-07	1.90E-07	9.01E-09	0.00E+00	1.99E-07	5.70E-08	1.62E-09	0.00E+00	5.86E-08	2.16E-08	5.23E-10	0.00E+00	2.21E-08
2146	458054.7	3769216	1.93E-07	9.14E-09	0.00E+00	2.02E-07	1.93E-07	9.14E-09	0.00E+00	2.02E-07	5.78E-08	1.64E-09	0.00E+00	5.95E-08	2.19E-08	5.31E-10	0.00E+00	2.24E-08
2147	458064.7	3769216	1.96E-07	9.27E-09	0.00E+00	2.05E-07	1.96E-07	9.27E-09	0.00E+00	2.05E-07	5.87E-08	1.67E-09	0.00E+00	6.03E-08	2.22E-08	5.38E-10	0.00E+00	2.28E-08
2148	458074.7	3769216	1.99E-07	9.41E-09	0.00E+00	2.08E-07	1.99E-07	9.41E-09	0.00E+00	2.08E-07	5.95E-08	1.69E-09	0.00E+00	6.12E-08	2.26E-08	5.46E-10	0.00E+00	2.31E-08
2149	458084.7	3769216	2.02E-07	9.55E-09	0.00E+00	2.11E-07	2.02E-07	9.55E-09	0.00E+00	2.11E-07	6.04E-08	1.72E-09	0.00E+00	6.21E-08	2.29E-08	5.54E-10	0.00E+00	2.34E-08
2150	458034.7	3769256	1.71E-07	8.08E-09	0.00E+00	1.79E-07	1.71E-07	8.08E-09	0.00E+00	1.79E-07	5.11E-08	1.45E-09	0.00E+00	5.26E-08	1.94E-08	4.69E-10	0.00E+00	1.98E-08
2151	458044.7	3769256	1.73E-07	8.2E-09	0.00E+00	1.81E-07	1.73E-07	8.20E-09	0.00E+00	1.81E-07	5.18E-08	1.47E-09	0.00E+00	5.33E-08	1.96E-08	4.76E-10	0.00E+00	2.01E-08
2152	458054.7	3769256	1.76E-07	8.31E-09	0.00E+00	1.84E-07	1.76E-07	8.31E-09	0.00E+00	1.84E-07	5.26E-08	1.49E-09	0.00E+00	5.41E-08	1.99E-08	4.82E-10	0.00E+00	2.04E-08
2153	458064.7	3769256	1.78E-07	8.43E-09	0.00E+00	1.86E-07	1.78E-07	8.43E-09	0.00E+00	1.86E-07	5.33E-08	1.51E-09	0.00E+00	5.48E-08	2.02E-08	4.89E-10	0.00E+00	2.07E-08
2154	458074.7	3769256	1.8E-07	8.54E-09	0.00E+00	1.89E-07	1.80E-07	8.54E-09	0.00E+00	1.89E-07	5.41E-08	1.54E-09	0.00E+00	5.56E-08	2.05E-08	4.96E-10	0.00E+00	2.10E-08
2155	458084.7	3769256	1.83E-07	8.66E-09	0.00E+00	1.92E-07	1.83E-07	8.66E-09	0.00E+00	1.92E-07	5.48E-08	1.56E-09	0.00E+00	5.63E-08	2.07E-08	5.03E-10	0.00E+00	2.13E-08
2156	458094.7	3769256	1.85E-07	8.77E-09	0.00E+00	1.94E-07	1.85E-07	8.77E-09	0.00E+00	1.94E-07	5.55E-08	1.58E-09	0.00E+00	5.70E-08	2.10E-08	5.09E-10	0.00E+00	2.15E-08
2157	458104.7	3769256	1.87E-07	8.88E-09	0.00E+00	1.96E-07	1.87E-07	8.88E-09	0.00E+00	1.96E-07	5.62E-08	1.60E-09	0.00E+00	5.77E-08	2.13E-08	5.15E-10	0.00E+00	2.18E-08
2158	458194.7	3769256	2.13E-07	1.01E-08	0.00E+00	2.23E-07	2.13E-07	1.01E-08	0.00E+00	2.23E-07	6.37E-08	1.81E-09	0.00E+00	6.55E-08	2.41E-08	5.85E-10	0.00E+00	2.47E-08
2159	458204.7	3769256	2.16E-07	1.02E-08	0.00E+00	2.26E-07	2.16E-07	1.02E-08	0.00E+00	2.26E-07	6.46E-08	1.84E-09	0.00E+00	6.64E-08	2.45E-08	5.92E-10	0.00E+00	2.51E-08
2160	458214.7	3769256	2.18E-07	1.03E-08	0.00E+00	2.29E-07	2.18E-07	1.03E-08	0.00E+00	2.29E-07	6.54E-08	1.86E-09	0.00E+00	6.72E-08	2.48E-08	6.00E-10	0.00E+00	2.54E-08
2161	458224.7	3769256	2.21E-07	1.05E-08	0.00E+00	2.32E-07	2.21E-07	1.05E-08	0.00E+00	2.32E-07	6.62E-08	1.88E-09	0.00E+00	6.81E-08	2.51E-08	6.07E-10	0.00E+00	2.57E-08
2162	458234.7	3769256	2.24E-07	1.06E-08	0.00E+00	2.35E-07	2.24E-07	1.06E-08	0.00E+00	2.35E-07	6.72E-08	1.91E-09	0.00E+00	6.91E-08	2.54E-08	6.16E-10	0.00E+00	2.61E-08
2163	458034.7	3769266	1.67E-07	7.89E-09	0.00E+00	1.74E-07	1.67E-07	7.89E-09	0.00E+00	1.74E-07	4.99E-08	1.42E-09	0.00E+00	5.13E-08	1.89E-08	4.58E-10	0.00E+00	1.94E-08
2164	458044.7	3769266	1.69E-07	8E-09	0.00E+00	1.77E-07	1.69E-07	8.00E-09	0.00E+00	1.77E-07	5.06E-08	1.44E-09	0.00E+00	5.20E-08	1.92E-08	4.64E-10	0.00E+00	1.96E-08
2165	458054.7	3769266	1.71E-07	8.1E-09	0.00E+00	1.79E-07	1.71E-07	8.10E-09	0.00E+00	1.79E-07	5.13E-08	1.46E-09	0.00E+00	5.27E-08	1.94E-08	4.70E-10	0.00E+00	1.99E-08
2166	458064.7	3769266	1.74E-07	8.22E-09	0.00E+00	1.82E-07	1.74E-07	8.22E-09	0.00E+00	1.82E-07	5.20E-08	1.48E-09	0.00E+00	5.35E-08	1.97E-08	4.77E-10	0.00E+00	2.02E-08
2167	458074.7	3769266	1.76E-07	8.33E-09	0.00E+00	1.84E-07	1.76E-07	8.33E-09	0.00E+00	1.84E-07	5.27E-08	1.50E-09	0.00E+00	5.42E-08	2.00E-08	4.84E-10	0.00E+00	2.04E-08
2168	458084.7	3769266	1.78E-07	8.44E-09	0.00E+00	1.87E-07	1.78E-07	8.44E-09	0.00E+00	1.87E-07	5.34E-08	1.52E-09	0.00E+00	5.49E-08	2.02E-08	4.90E-10	0.00E+00	2.07E-08
2169	458094.7	3769266	1.81E-07	8.56E-09	0.00E+00	1.89E-07	1.81E-07	8.56E-09	0.00E+00	1.89E-07	5.41E-08	1.54E-09	0.00E+00	5.57E-08	2.05E-08	4.97E-10	0.00E+00	2.10E-08
2170	458104.7	3769266	1.83E-07	8.67E-09	0.00E+00	1.92E-07	1.83E-07	8.67E-09	0.00E+00	1.92E-07	5.48E-08	1.56E-09	0.00E+00	5.64E-08	2.08E-08	5.03E-10	0.00E+00	2.13E-08
2171	458154.7	3769266	1.96E-07	9.28E-09	0.00E+00	2.05E-07	1.96E-07	9.28E-09	0.00E+00	2.05E-07	5.87E-08	1.67E-09	0.00E+00	6.04E-08	2.22E-08	5.39E-10	0.00E+00	2.28E-08
2172	458164.7	3769266	1.99E-07	9.43E-09	0.00E+00	2.09E-07	1.99E-07	9.43E-09	0.00E+00	2.09E-07	5.97E-08	1.70E-09	0.00E+00	6.14E-08	2.26E-08	5.47E-10	0.00E+00	2.31E-08
2173	458174.7	3769266	2.02E-07	9.57E-09	0.00E+00	2.12E-07	2.02E-07	9.57E-09	0.00E+00	2.12E-07	6.05E-08	1.72E-09	0.00E+00	6.22E-08	2.29E-08	5.55E-10	0.00E+00	2.35E-08
2174	458184.7	3769266	2.05E-07	9.69E-09	0.00E+00	2.14E-07	2.05E-07	9.69E-09	0.00E+00	2.14E-07	6.13E-08	1.74E-09	0.00E+00	6.30E-08	2.32E-08	5.62E-10	0.00E+00	2.38E-08
2175	458194.7	3769266	2.07E-07	9.81E-09	0.00E+00	2.17E-07	2.07E-07	9.81E-09	0.00E+00	2.17E-07	6.21E-08	1.76E-09	0.00E+00	6.38E-08	2.35E-08	5.70E-10	0.00E+00	2.41E-08
2176	458204.7	3769266	2.1E-07	9.94E-09	0.00E+00	2.20E-07	2.10E-07	9.94E-09	0.00E+00	2.20E-07	6.29E-08	1.79E-09	0.00E+00	6.47E-08	2.38E-08	5.77E-10	0.00E+00	2.44E-08
2177	458214.7	3769266	2.13E-07	1.01E-08	0.00E+00	2.23E-07	2.13E-07	1.01E-08	0.00E+00	2.23E-07	6.37E-08	1.81E-09	0.00E+00	6.55E-08	2.41E-08	5.85E-10	0.00E+00	2.47E-08
2178	458224.7	3769266	2.16E-07	1.02E-08	0.00E+00	2.26E-07	2.16E-07	1.02E-08	0.00E+00	2.26E-07	6.46E-08	1.84E-09	0.00E+00	6.64E-08	2.45E-08	5.93E-10	0.00E+00	2.51E-08
2179	458234.7	3769266	2.19E-07	1.04E-08	0.00E+00	2.29E-07	2.19E-07	1.04E-08	0.00E+00	2.29E-07	6.55E-08	1.86E-09	0.00E+00	6.74E-08	2.48E-08	6.01E-10	0.00E+00	2.54E-08
2180	458034.7	3769276	1.63E-07	7.7E-09	0.00E+00	1.70E-07	1.63E-07	7.70E-09	0.00E+00	1.70E-07	4.87E-08	1.38E-09	0.00E+00	5.01E-08	1.85E-08	4.47E-10	0.00E+00	1.89E-08
2181	458044.7	3769276	1.65E-07	7.8E-09	0.00E+00	1.73E-07	1.65E-07	7.80E-09	0.00E+00	1.73E-07	4.94E-08	1.40E-09	0.00E+00	5.08E-08	1.87E-08	4.53E-10	0.00E+00	1.92E-08
2182	458054.7	3769276	1.67E-07	7.91E-09	0.00E+00	1.75E-07	1.67E-07	7.91E-09	0.00E+00	1.75E-07	5.00E-08	1.42E-09	0.00E+00	5.15E-08	1.90E-08	4.59E-10	0.00E+00	1.94E-08
2183	458064.7	3769276	1.69E-07	8.02E-09	0.00E+00	1.77E-07	1.69E-07	8.02E-09	0.00E+00	1.77E-07	5.07E-08	1.44E-09	0.00E+00	5.22E-08	1.92E-08	4.65E-10	0.00E+00	1.97E-08
2184	458074.7	3769276	1.72E-07	8.13E-09	0.00E+00	1.80E-07	1.72E-07	8.13E-09	0.00E+00	1.80E-07	5.14E-08	1.46E-09	0.00E+00	5.29E-08	1.95E-08	4.72E-10	0.00E+00	1.99E-08
2185	458084.7	3769276	1.74E-07	8.24E-09	0.00E+00	1.82E-07	1.74E-07	8.24E-09	0.00E+00	1.82E-07	5.21E-08	1.48E-09	0.00E+00	5.36E-08	1.97E-08	4.78E-10	0.00E+00	2.02E-08
2186	458094.7	3769276	1.76E-07	8.35E-09	0.00E+00	1.85E-07	1.76E-07	8.35E-09	0.00E+00	1.85E-07	5.28E-08	1.50E-09	0.00E+00	5.43E-08	2.00E-08	4.85E-10	0.00E+00	2.05E-08
2187	458104.7	3769276	1.79E-07	8.47E-09	0.00E+00	1.87E-07	1.79E-07	8.47E-09	0.00E+00	1.87E-07	5.36E-08	1.52E-09	0.00E+00	5.51E-08	2.03E-08	4.92E-10	0.00E+00	2.08E-08
2188	458154.7	3769276	1.91E-07	9.05E-09	0.00E+00	2.00E-07	1.91E-07	9.05E-09	0.00E+00	2.00E-07	5.73E-08	1.63E-09	0.00E+00	5.89E-08	2.17E-08	5.26E-10	0.00E+00	2.22E-08
2189	458164.7	3769276	1.94E-07	9.21E-09	0.00E+00	2.04E-07	1.94E-07	9.21E-09	0.00E+00	2.04E-07	5.82E-08	1.66E-09	0.00E+00	5.99E-08	2.21E-08	5.34E-10	0.00E+00	2.26E-08
2190	458174.7	3769276	1.97E-07	9.34E-09	0.00E+00	2.07E-07	1.97E-07	9.34E-09	0.00E+00	2.07E-07	5.91E-08	1.68E-09	0.00E+00	6.07E-08	2.24E-08	5.42E-10	0.00E+00	2.29E-08
2191	458184.7	3769276	2E-07	9.45E-09	0.00E+00	2.09E-07	2.00E-07	9.45E-09	0.00E+00	2.09E-07	5.98E-08	1.70E-09	0.00E+00	6.15E-08	2.26E-08	5.48E-10	0.00E+00	2.32E-08
2192	458194.7	3769276	2.02E-07	9.56E-09	0.00E+00	2.11E-07	2.02E-07	9.56E-09	0.00E+00	2.11E-07	6.05E-08	1.72E-09	0.00E+00	6.22E-08	2.29E-08	5.55E-10	0.00E+00	2.35E-08
2193	458204.7	3769276	2.05E-07	9.68E-09	0.00E+00	2.14E-07	2.05E-07	9.68E-09	0.00E+00	2.14E-07	6.13E-08	1.74E-09	0.00E+00	6.30E-08	2.32E-08	5.62E-10	0.00E+00	2.38E-08
2194	458214.7	3769276	2.07E-07	9.82E-09	0.00E+00	2.17E-07	2.07E-07	9.82E-09	0.00E+00	2.17E-07	6.21E-08	1.77E-09	0.00E+00	6.39E-08	2.35E-08	5.70E-10	0.00E+00	2.41E-08
2195	458224.7	3769276	2.1E-07	9.96E-09	0.00E+00	2.20E-07	2.10E-07	9.96E-09	0.00E+00	2.20E-07	6.30E-08	1.79E-09	0.00E+00	6.48E-08	2.39E-08	5.78E-10	0.00E+00	2.44E-08
2196	458234.7	3769276	2.13E-07	1.01E-08	0.00E+00	2.23E-07	2.13E-07	1.01E-08	0.00E+00	2.23E-07	6.39E-08	1.82E-09	0.00E+00	6.57E-08	2.42E-08	5.86E-10	0.00E+00	2.48E-08
2197	458034.7	3769286	1.59E-07	7.54E-09	0.00E+00	1.67E-07	1.59E-07	7.54E-09	0.00E+00	1.67E-07	4.77E-08	1.36E-09	0.00E+00	4.90E-08	1.81E-08	4.37E-10	0.00E+00	1.85E-08

2198	458044.7	3769286	1.61E-07	7.64E-09	0.00E+00	1.69E-07	1.61E-07	7.64E-09	0.00E+00	1.69E-07	4.83E-08	1.37E-09	0.00E+00	4.97E-08	1.83E-08	4.43E-10	0.00E+00	1.87E-08
2199	458054.7	3769286	1.63E-07	7.73E-09	0.00E+00	1.71E-07	1.63E-07	7.73E-09	0.00E+00	1.71E-07	4.89E-08	1.39E-09	0.00E+00	5.03E-08	1.85E-08	4.49E-10	0.00E+00	1.90E-08
2200	458064.7	3769286	1.65E-07	7.83E-09	0.00E+00	1.73E-07	1.65E-07	7.83E-09	0.00E+00	1.73E-07	4.95E-08	1.41E-09	0.00E+00	5.10E-08	1.88E-08	4.55E-10	0.00E+00	1.92E-08
2201	458074.7	3769286	1.68E-07	7.93E-09	0.00E+00	1.75E-07	1.68E-07	7.93E-09	0.00E+00	1.75E-07	5.02E-08	1.43E-09	0.00E+00	5.16E-08	1.90E-08	4.60E-10	0.00E+00	1.95E-08
2202	458084.7	3769286	1.7E-07	8.04E-09	0.00E+00	1.78E-07	1.70E-07	8.04E-09	0.00E+00	1.78E-07	5.09E-08	1.45E-09	0.00E+00	5.23E-08	1.93E-08	4.67E-10	0.00E+00	1.97E-08
2203	458094.7	3769286	1.72E-07	8.16E-09	0.00E+00	1.80E-07	1.72E-07	8.16E-09	0.00E+00	1.80E-07	5.16E-08	1.47E-09	0.00E+00	5.31E-08	1.95E-08	4.73E-10	0.00E+00	2.00E-08
2204	458104.7	3769286	1.75E-07	8.28E-09	0.00E+00	1.83E-07	1.75E-07	8.28E-09	0.00E+00	1.83E-07	5.24E-08	1.49E-09	0.00E+00	5.39E-08	1.98E-08	4.80E-10	0.00E+00	2.03E-08
2205	458154.7	3769286	1.87E-07	8.83E-09	0.00E+00	1.95E-07	1.87E-07	8.83E-09	0.00E+00	1.95E-07	5.59E-08	1.59E-09	0.00E+00	5.75E-08	2.12E-08	5.13E-10	0.00E+00	2.17E-08
2206	458164.7	3769286	1.9E-07	8.97E-09	0.00E+00	1.99E-07	1.90E-07	8.97E-09	0.00E+00	1.99E-07	5.68E-08	1.61E-09	0.00E+00	5.84E-08	2.15E-08	5.21E-10	0.00E+00	2.20E-08
2207	458174.7	3769286	1.92E-07	9.1E-09	0.00E+00	2.01E-07	1.92E-07	9.10E-09	0.00E+00	2.01E-07	5.76E-08	1.64E-09	0.00E+00	5.92E-08	2.18E-08	5.28E-10	0.00E+00	2.23E-08
2208	458184.7	3769286	1.95E-07	9.22E-09	0.00E+00	2.04E-07	1.95E-07	9.22E-09	0.00E+00	2.04E-07	5.83E-08	1.66E-09	0.00E+00	6.00E-08	2.21E-08	5.35E-10	0.00E+00	2.26E-08
2209	458194.7	3769286	1.97E-07	9.33E-09	0.00E+00	2.06E-07	1.97E-07	9.33E-09	0.00E+00	2.06E-07	5.90E-08	1.68E-09	0.00E+00	6.07E-08	2.24E-08	5.42E-10	0.00E+00	2.29E-08
2210	458204.7	3769286	2E-07	9.45E-09	0.00E+00	2.09E-07	2.00E-07	9.45E-09	0.00E+00	2.09E-07	5.98E-08	1.70E-09	0.00E+00	6.15E-08	2.27E-08	5.49E-10	0.00E+00	2.32E-08
2211	458214.7	3769286	2.03E-07	9.59E-09	0.00E+00	2.12E-07	2.03E-07	9.59E-09	0.00E+00	2.12E-07	6.07E-08	1.72E-09	0.00E+00	6.24E-08	2.30E-08	5.57E-10	0.00E+00	2.35E-08
2212	458224.7	3769286	2.05E-07	9.72E-09	0.00E+00	2.15E-07	2.05E-07	9.72E-09	0.00E+00	2.15E-07	6.15E-08	1.75E-09	0.00E+00	6.33E-08	2.33E-08	5.64E-10	0.00E+00	2.39E-08
2213	458234.7	3769286	2.08E-07	9.86E-09	0.00E+00	2.18E-07	2.08E-07	9.86E-09	0.00E+00	2.18E-07	6.24E-08	1.77E-09	0.00E+00	6.41E-08	2.36E-08	5.72E-10	0.00E+00	2.42E-08
2214	458034.7	3769296	1.56E-07	7.38E-09	0.00E+00	1.63E-07	1.56E-07	7.38E-09	0.00E+00	1.63E-07	4.67E-08	1.33E-09	0.00E+00	4.80E-08	1.77E-08	4.28E-10	0.00E+00	1.81E-08
2215	458044.7	3769296	1.58E-07	7.47E-09	0.00E+00	1.65E-07	1.58E-07	7.47E-09	0.00E+00	1.65E-07	4.73E-08	1.34E-09	0.00E+00	4.86E-08	1.79E-08	4.34E-10	0.00E+00	1.83E-08
2216	458054.7	3769296	1.6E-07	7.57E-09	0.00E+00	1.67E-07	1.60E-07	7.57E-09	0.00E+00	1.67E-07	4.79E-08	1.36E-09	0.00E+00	4.92E-08	1.81E-08	4.39E-10	0.00E+00	1.86E-08
2217	458064.7	3769296	1.62E-07	7.65E-09	0.00E+00	1.69E-07	1.62E-07	7.65E-09	0.00E+00	1.69E-07	4.84E-08	1.38E-09	0.00E+00	4.98E-08	1.83E-08	4.44E-10	0.00E+00	1.88E-08
2218	458074.7	3769296	1.64E-07	7.75E-09	0.00E+00	1.71E-07	1.64E-07	7.75E-09	0.00E+00	1.71E-07	4.90E-08	1.39E-09	0.00E+00	5.04E-08	1.86E-08	4.50E-10	0.00E+00	1.90E-08
2219	458084.7	3769296	1.66E-07	7.85E-09	0.00E+00	1.74E-07	1.66E-07	7.85E-09	0.00E+00	1.74E-07	4.97E-08	1.41E-09	0.00E+00	5.11E-08	1.88E-08	4.56E-10	0.00E+00	1.93E-08
2220	458094.7	3769296	1.68E-07	7.97E-09	0.00E+00	1.76E-07	1.68E-07	7.97E-09	0.00E+00	1.76E-07	5.04E-08	1.43E-09	0.00E+00	5.19E-08	1.91E-08	4.63E-10	0.00E+00	1.96E-08
2221	458104.7	3769296	1.71E-07	8.09E-09	0.00E+00	1.79E-07	1.71E-07	8.09E-09	0.00E+00	1.79E-07	5.12E-08	1.45E-09	0.00E+00	5.26E-08	1.94E-08	4.70E-10	0.00E+00	1.99E-08
2222	458154.7	3769296	1.82E-07	8.62E-09	0.00E+00	1.91E-07	1.82E-07	8.62E-09	0.00E+00	1.91E-07	5.45E-08	1.55E-09	0.00E+00	5.61E-08	2.07E-08	5.01E-10	0.00E+00	2.12E-08
2223	458164.7	3769296	1.85E-07	8.75E-09	0.00E+00	1.94E-07	1.85E-07	8.75E-09	0.00E+00	1.94E-07	5.54E-08	1.57E-09	0.00E+00	5.69E-08	2.10E-08	5.08E-10	0.00E+00	2.15E-08
2224	458174.7	3769296	1.87E-07	8.87E-09	0.00E+00	1.96E-07	1.87E-07	8.87E-09	0.00E+00	1.96E-07	5.61E-08	1.60E-09	0.00E+00	5.77E-08	2.13E-08	5.15E-10	0.00E+00	2.18E-08
2225	458184.7	3769296	1.9E-07	8.99E-09	0.00E+00	1.99E-07	1.90E-07	8.99E-09	0.00E+00	1.99E-07	5.69E-08	1.62E-09	0.00E+00	5.85E-08	2.15E-08	5.22E-10	0.00E+00	2.21E-08
2226	458194.7	3769296	1.92E-07	9.11E-09	0.00E+00	2.02E-07	1.92E-07	9.11E-09	0.00E+00	2.02E-07	5.76E-08	1.64E-09	0.00E+00	5.93E-08	2.18E-08	5.29E-10	0.00E+00	2.24E-08
2227	458204.7	3769296	1.95E-07	9.23E-09	0.00E+00	2.04E-07	1.95E-07	9.23E-09	0.00E+00	2.04E-07	5.84E-08	1.66E-09	0.00E+00	6.01E-08	2.21E-08	5.36E-10	0.00E+00	2.27E-08
2228	458214.7	3769296	1.98E-07	9.36E-09	0.00E+00	2.07E-07	1.98E-07	9.36E-09	0.00E+00	2.07E-07	5.92E-08	1.68E-09	0.00E+00	6.09E-08	2.24E-08	5.43E-10	0.00E+00	2.30E-08
2229	458224.7	3769296	2.01E-07	9.49E-09	0.00E+00	2.10E-07	2.01E-07	9.49E-09	0.00E+00	2.10E-07	6.01E-08	1.71E-09	0.00E+00	6.18E-08	2.28E-08	5.51E-10	0.00E+00	2.33E-08
2230	458234.7	3769296	2.03E-07	9.63E-09	0.00E+00	2.13E-07	2.03E-07	9.63E-09	0.00E+00	2.13E-07	6.09E-08	1.73E-09	0.00E+00	6.26E-08	2.31E-08	5.59E-10	0.00E+00	2.36E-08
2231	458034.7	3769306	1.53E-07	7.23E-09	0.00E+00	1.60E-07	1.53E-07	7.23E-09	0.00E+00	1.60E-07	4.57E-08	1.30E-09	0.00E+00	4.70E-08	1.73E-08	4.19E-10	0.00E+00	1.77E-08
2232	458044.7	3769306	1.55E-07	7.32E-09	0.00E+00	1.62E-07	1.55E-07	7.32E-09	0.00E+00	1.62E-07	4.63E-08	1.32E-09	0.00E+00	4.76E-08	1.75E-08	4.25E-10	0.00E+00	1.80E-08
2233	458054.7	3769306	1.56E-07	7.41E-09	0.00E+00	1.64E-07	1.56E-07	7.41E-09	0.00E+00	1.64E-07	4.68E-08	1.33E-09	0.00E+00	4.82E-08	1.77E-08	4.30E-10	0.00E+00	1.82E-08
2234	458064.7	3769306	1.58E-07	7.48E-09	0.00E+00	1.66E-07	1.58E-07	7.48E-09	0.00E+00	1.66E-07	4.74E-08	1.35E-09	0.00E+00	4.87E-08	1.79E-08	4.34E-10	0.00E+00	1.84E-08
2235	458074.7	3769306	1.6E-07	7.57E-09	0.00E+00	1.67E-07	1.60E-07	7.57E-09	0.00E+00	1.67E-07	4.79E-08	1.36E-09	0.00E+00	4.92E-08	1.81E-08	4.39E-10	0.00E+00	1.86E-08
2236	458084.7	3769306	1.62E-07	7.67E-09	0.00E+00	1.70E-07	1.62E-07	7.67E-09	0.00E+00	1.70E-07	4.85E-08	1.38E-09	0.00E+00	4.99E-08	1.84E-08	4.45E-10	0.00E+00	1.88E-08
2237	458094.7	3769306	1.64E-07	7.79E-09	0.00E+00	1.72E-07	1.64E-07	7.79E-09	0.00E+00	1.72E-07	4.93E-08	1.40E-09	0.00E+00	5.07E-08	1.87E-08	4.52E-10	0.00E+00	1.91E-08
2238	458104.7	3769306	1.67E-07	7.91E-09	0.00E+00	1.75E-07	1.67E-07	7.91E-09	0.00E+00	1.75E-07	5.01E-08	1.42E-09	0.00E+00	5.15E-08	1.90E-08	4.59E-10	0.00E+00	1.94E-08
2239	458154.7	3769306	1.78E-07	8.42E-09	0.00E+00	1.86E-07	1.78E-07	8.42E-09	0.00E+00	1.86E-07	5.33E-08	1.51E-09	0.00E+00	5.48E-08	2.02E-08	4.89E-10	0.00E+00	2.07E-08
2240	458164.7	3769306	1.8E-07	8.54E-09	0.00E+00	1.89E-07	1.80E-07	8.54E-09	0.00E+00	1.89E-07	5.40E-08	1.53E-09	0.00E+00	5.55E-08	2.05E-08	4.95E-10	0.00E+00	2.09E-08
2241	458174.7	3769306	1.83E-07	8.65E-09	0.00E+00	1.91E-07	1.83E-07	8.65E-09	0.00E+00	1.91E-07	5.47E-08	1.56E-09	0.00E+00	5.63E-08	2.07E-08	5.02E-10	0.00E+00	2.12E-08
2242	458184.7	3769306	1.85E-07	8.78E-09	0.00E+00	1.94E-07	1.85E-07	8.78E-09	0.00E+00	1.94E-07	5.55E-08	1.58E-09	0.00E+00	5.71E-08	2.10E-08	5.09E-10	0.00E+00	2.15E-08
2243	458194.7	3769306	1.88E-07	8.9E-09	0.00E+00	1.97E-07	1.88E-07	8.90E-09	0.00E+00	1.97E-07	5.63E-08	1.60E-09	0.00E+00	5.79E-08	2.13E-08	5.16E-10	0.00E+00	2.18E-08
2244	458204.7	3769306	1.91E-07	9.02E-09	0.00E+00	2.00E-07	1.91E-07	9.02E-09	0.00E+00	2.00E-07	5.71E-08	1.62E-09	0.00E+00	5.87E-08	2.16E-08	5.24E-10	0.00E+00	2.21E-08
2245	458214.7	3769306	1.93E-07	9.15E-09	0.00E+00	2.02E-07	1.93E-07	9.15E-09	0.00E+00	2.02E-07	5.79E-08	1.64E-09	0.00E+00	5.95E-08	2.19E-08	5.31E-10	0.00E+00	2.24E-08
2246	458224.7	3769306	1.96E-07	9.27E-09	0.00E+00	2.05E-07	1.96E-07	9.27E-09	0.00E+00	2.05E-07	5.87E-08	1.67E-09	0.00E+00	6.03E-08	2.22E-08	5.38E-10	0.00E+00	2.28E-08
2247	458234.7	3769306	1.99E-07	9.4E-09	0.00E+00	2.08E-07	1.99E-07	9.40E-09	0.00E+00	2.08E-07	5.95E-08	1.69E-09	0.00E+00	6.12E-08	2.25E-08	5.46E-10	0.00E+00	2.31E-08
2248	458034.7	3769316	1.49E-07	7.06E-09	0.00E+00	1.56E-07	1.49E-07	7.06E-09	0.00E+00	1.56E-07	4.47E-08	1.27E-09	0.00E+00	4.60E-08	1.69E-08	4.10E-10	0.00E+00	1.73E-08
2249	458044.7	3769316	1.51E-07	7.15E-09	0.00E+00	1.58E-07	1.51E-07	7.15E-09	0.00E+00	1.58E-07	4.53E-08	1.29E-09	0.00E+00	4.65E-08	1.71E-08	4.15E-10	0.00E+00	1.76E-08
2250	458054.7	3769316	1.53E-07	7.24E-09	0.00E+00	1.60E-07	1.53E-07	7.24E-09	0.00E+00	1.60E-07	4.58E-08	1.30E-09	0.00E+00	4.71E-08	1.73E-08	4.20E-10	0.00E+00	1.78E-08
2251	458064.7	3769316	1.54E-07	7.31E-09	0.00E+00	1.62E-07	1.54E-07	7.31E-09	0.00E+00	1.62E-07	4.63E-08	1.31E-09	0.00E+00	4.76E-08	1.75E-08	4.24E-10	0.00E+00	1.79E-08
2252	458074.7	3769316	1.56E-07	7.39E-09	0.00E+00	1.63E-07	1.56E-07	7.39E-09	0.00E+00	1.63E-07	4.67E-08	1.33E-09	0.00E+00	4.81E-08	1.77E-08	4.29E-10	0.00E+00	1.81E-08
2253	458084.7	3769316	1.58E-07	7.48E-09	0.00E+00	1.66E-07	1.58E-07	7.48E-09	0.00E+00	1.66E-07	4.73E-08	1.35E-09	0.00E+00	4.87E-08	1.79E-08	4.34E-10	0.00E+00	1.84E-08
2254	458094.7	3769316	1.6E-07	7.6E-09	0.00E+00	1.68E-07	1.60E-07	7.60E-09	0.00E+00	1.68E-07	4.80E-08	1.37E-09	0.00E+00	4.94E-08	1.82E-08	4.41E-10	0.00E+00	1.86E-08
2255	458104.7	3769316	1.63E-07	7.71E-09	0.00E+00	1.71E-07	1.63E-07	7.71E-09	0.00E+00	1.71E-07	4.88E-08	1.39E-09	0.00E+00	5.02E-08	1.85E-08	4.48E-10	0.00E+00	1.89E-08
2256	458164.7	3769316	1.76E-07	8.33E-09	0.00E+00	1.84E-07	1.76E-07	8.33E-09	0.00E+00	1.84E-07	5.27E-08	1.50E-09	0.00E+00	5.42E-08	1.99E-08	4.83E-10	0.00E+00	2.04E-08
2257	458174.7	3769316	1.78E-07	8.44E-09	0.00E+00	1.87E-07	1.78E-07	8.44E-09	0.00E+00	1.87E-07	5.34E-08	1.52E-09	0.00E+00	5.49E-08	2.02E-08	4.90E-10	0.00E+00	2.07E-08
2258	458184.7	3769316	1.81E-07	8.56E-09	0.00E+00	1.89E-07	1.81E-07	8.56E-09	0.00E+00	1.89E-07	5.41E-08	1.54E-09	0.00E+00	5.57E-08	2.05E-08	4.97E-10	0.00E+00	2.10E-08
2259	458194.7	3769316	1.83E-07	8.67E-09	0.00E+00	1.92E-07	1.83E-07	8.67E-09	0.00E+00	1.92E-07	5.49E-08	1.56E-09	0.00E+00	5.64E-08	2.08E-08	5.04E-10	0.00E+00	2.13E-08
2260	458204.7	3769316	1.86E-07	8.79E-09	0.00E+00	1.95E-07	1.86E-07	8.79E-09	0.00E+00	1.95E-07	5.56E-08	1.58E-09	0.00E+00	5.72E-08	2.11E-08	5.10E-10	0.00E+00	2.16E-08
2261	458214.7	3769316	1.88E-07	8.92E-09	0.00E+00	1.97E-07	1.88E-07	8.92E-09	0.00E+00	1.97E-07	5.64E-08	1.60E-09	0.00E+00	5.80E-08	2.14E-08	5.18E-10	0.00E+00	2.19E-08
2262	458224.7	3769316	1.91E-07	9.04E-09	0.00E+00	2.00E-07	1.91E-07	9.04E-09	0.00E+00	2.00E-07	5.72E-08	1.63E-09	0.00E+00	5.88E-08	2.17E-08	5.25E-10	0.00E+00	2.22E-08
2263	458234.7	3769316	1.94E-07	9.17E-09	0.00E+00	2.03E-07	1.94E-07	9.17E-09	0.00E+00	2.03E-07	5.80E-08	1.65E-09	0.00E+00	5.96E-08	2.20E-08	5.32E-10	0.00E+00	2.25E-08
2264	458034.7	3769326	1.46E-07	6.91E-09	0.00E+00	1.53E-07	1.46E-07	6.91E-09	0.00E+00	1.53E-07	4.37E-08	1.24E-09	0.00E+00	4.49E-08	1.65E-08	4.01E-10	0.00E+00	1.70E-08
2265	458044.7	3769326	1.48E-07	6.99E-09	0.00E+00	1.55E-07	1.48E-07	6.99E-09	0.00E+00	1.55E-07	4.42E-08	1.26E-09	0.00E+00	4.55E-08	1.68E-08	4.06E-10	0.00E+00	1.72E-08
2266	458054.7	3769326	1.49E-07	7.07E-09	0.00E+00	1.56E-07	1.49E-07	7.07E-09	0.00E+00	1.56E-07	4.47E-08	1.27E-09	0.00E+00	4.60E-08	1.69E-08	4.10E-10	0.00E+00	1.74E-08
2267	458064.7	3769326	1.51E-07	7.14E-09	0.00E+00	1.58E-07	1.51E-07	7.14E-09	0.00E+00	1.58E-07	4.52E-08	1.28E-09	0.00E+00	4.65E-08	1.71E-08	4.15E-10	0.00E+00	1.75E-08
2268	458074.7	3769326	1.52E-07	7.22E-09	0.00E+00	1.60E-07	1.52E-07	7.22E-09	0.00E+00	1.60E-07	4.57E-08	1.30E-09	0.00E+00	4.70E-08	1.73E-08	4.19E-10	0.00E+00	1.77E-08
2269	458084.7	3769326	1.54E-07	7.31E-09	0.00E+00	1.62E-07	1.54E-07	7.31E-09	0.00E+00	1.62E-07	4.62E-08	1.31E-09	0.00E+00	4.75E-08	1.75E-08	4.24E-10	0.00E+00	1.79E-08
2270	458094.7	3769326	1.56E-07	7.41E-09	0.00E+00	1.64E-07	1.56E-07	7.41E-09	0.00E+00	1.64E-07	4.69E-08	1.33E-09	0.00E+00	4.82E-08	1.78E-08	4.30E-10	0.00E+00	1.82E-08
2271	458104.7	3769326	1.59E-07	7.51E-09	0.00E+00	1.66E-07	1.59E-07	7.51E-09	0.00E+00	1.66E-07	4.75E-08	1.35E-09	0.00E+00	4.89E-08	1.80E-08	4.36E-10	0.00E+00	1.84E-08
2272	458164.7	3769326	1.72E-07	8.12E-09	0.00E+00	1.80E-07	1.72E-07	8.12E-09	0.00E+00	1.80E-07	5.14E-08	1.46E-09	0.00E+00	5.28E-08	1.95E-08	4.71E-10	0.00E+00	1.99E-08
2273	458174.7	3769326	1.74E-07	8.23E-09	0.00E+00	1.82E-07	1.74E-07	8.23E-09	0.00E+00	1.82E-07	5.21E-08	1.48E-09	0.00E+00	5.36E-08	1.97E-08	4.78E-10	0.00E+00	2.02E-08
2274	458184.7	3769326	1.76E-07	8.35E-09	0.00E+00	1.85E-07	1.76E-07	8.35E-09	0.00E+00	1.85E-07	5.28E-08	1.50E-09	0.00E+00	5.43E-08	2.00E-08	4.84E-10	0.00E+00	2.05E-08
2275	458194.7	3769326	1.79E-07	8.46E-09	0.00E+00	1.87E-07	1.79E-07	8.46E-09	0.00E+00	1.87E-07	5.35E-08	1.52E-09	0.00E+00	5.50E-08	2.03E-08	4.91E-10	0.00E+00	2.08E-08
2276	458204.7	3769326	1.81E-07	8.58E-09	0.00E+00	1.90E-07	1.81E-07	8.58E-09	0.00E+00	1.90E-07	5.43E-08	1.54E-09	0.00E+00	5.58E-08	2.06E-08	4.98E-10	0.00E+00	2.10E-08
2277	458214.7	3769326	1.84E-07	8.69E-09	0.00E+00	1.92E-07	1.84E-07	8.69E-09	0.00E+00	1.92E-07	5.50E-08	1.56E-09	0.00E+00	5.66E-08	2.08E-08	5.05E-10	0.00E+00	2.13E-08
2278	458224.7	3769326	1.86E-07	8.81E-09	0.00E+00	1.95E-07	1.86E-07	8.81E-09	0.00E+00	1.95E-07	5.58E-08	1.58E-09	0.00E+00	5.73E-08	2.11E-08	5.12E-10	0.00E+00	2.16E-08
2279	458234.7	3769326	1.89E-07	8.93E-09	0.00E+00	1.98E-07	1.89E-07	8.93E-09	0.00E+00	1.98E-07	5.65E-08	1.61E-09	0.00E+00	5.81E-08	2.14E-08	5.19E-10	0.00E+00	2.19E-08
2280	458034.7	3769336	1.43E-07	6.75E-09	0.00E+00	1.49E-07	1.43E-07	6.75E-09	0.00E+00	1.49E-07	4.27E-08	1.21E-09	0.00E+00	4.39E-08	1.62E-08	3.92E-10	0.00E+00	1.66E-08
2281	458044.7	3769336	1.44E-07	6.84E-09	0.00E+00	1.51E-07	1.44E-07	6.84E-09	0.00E+00	1.51E-07	4.32E-08	1.23E-09	0.00E+00	4.45E-08	1.64E-08	3.97E-10	0.00E+00	1.68E-08
2282	458054.7	3769336	1.46E-07	6.91E-09	0.00E+00	1.53E-07	1.46E-07	6.91E-09	0.00E+00	1.53E-07	4.37E-08	1.24E-09	0.00E+00	4.50E-08	1.66E-08	4.01E-10	0.00E+00	1.70E-08
2283	458064.7	3769336	1.47E-07	6.98E-09	0.00E+00	1.54E-07	1.47E-07	6.98E-09	0.00E+00	1.54E-07	4.42E-08	1.26E-09	0.00E+00	4.54E-08	1.67E-08	4.05E-10	0.00E+00	1.71E-08
2284	458074.7	3769336	1.49E-07	7.05E-09	0.00E+00	1.56E-07	1.49E-07	7.05E-09	0.00E+00	1.56E-07	4.46E-08	1.27E-09	0.00E+00	4.59E-08	1.69E-08	4.09E-10	0.00E+00	1.73E-08
2285	458084.7	3769336	1.51E-07	7.14E-09	0.00E+00	1.58E-07	1.51E-07	7.14E-09	0.00E+00	1.58E-07	4.51E-08	1.28E-09	0.00E+00	4.64E-08	1.71E-08	4.14E-10	0.00E+00	1.75E-08
2286	458094.7	3769336	1.53E-07	7.23E-09	0.00E+00	1.60E-07	1.53E-07	7.23E-09	0.00E+00	1.60E-07	4.57E-08	1.30E-09	0.00E+00	4.70E-08	1.73E-08	4.20E-10	0.00E+00	1.77E-08
2287	458104.7	3769336	1.55E-07	7.32E-09	0.00E+00	1.62E-07	1.55E-07	7.32E-09	0.00E+00	1.62E-07	4.63E-08	1.32E-09	0.00E+00	4.76E-08	1.75E-08	4.25E-10	0.00E+00	1.80E-08
2288	458164.7	3769336	1.67E-07	7.93E-09	0.00E+00	1.75E-07	1.67E-07	7.93E-09	0.00E+00	1.75E-07	5.01E-08	1.43E-09	0.00E+00	5.16E-08	1.90E-08	4.60E-10	0.00E+00	1.95E-08
2289	458174.7	3769336	1.7E-07	8.03E-09	0.00E+00	1.78E-07	1.70E-07	8.03E-09	0.00E+00	1.78E-07	5.08E-08	1.44E-09	0.00E+00	5.23E-08	1.92E-08	4.66E-10	0.00E+00	1.97E-08
2290	458184.7	3769336	1.72E-07	8.14E-09	0.00E+00	1.80E-07	1.72E-07	8.14E-09	0.00E+00	1.80E-07	5.15E-08	1.46E-09	0.00E+00	5.30E-08	1.95E-08	4.73E-10	0.00E+00	2.00E-08
2291	458194.7	3769336	1.74E-07	8.25E-09	0.00E+00	1.83E-07	1.74E-07	8.25E-09	0.00E+00	1.83E-07	5.22E-08	1.48E-09	0.00E+00	5.37E-08	1.98E-08	4.79E-10	0.00E+00	2.03E-08
2292	458204.7	3769336	1.77E-07	8.36E-09	0.00E+00	1.85E-07	1.77E-07	8.36E-09	0.00E+00	1.85E-07	5.29E-08	1.50E-09	0.00E+00	5.44E-08	2.00E-08	4.86E-10	0.00E+00	2.05E-08
2293	458214.7	3769336	1.79E-07	8.48E-09	0.00E+00	1.88E-07	1.79E-07	8.48E-09	0.00E+00	1.88E-07	5.36E-08	1.52E-09	0.00E+00	5.52E-08	2.03E-08	4.92E-10	0.00E+00	2.08E-08
2294	458224.7	3769336	1.82E-07	8.59E-09	0.00E+00	1.90E-07	1.82E-07	8.59E-09	0.00E+00	1.90E-07	5.44E-08	1.55E-09	0.00E+00	5.59E-08	2.06E-08	4.99E-10	0.00E+00	2.11E-08
2295	458234.7	3769336	1.84E-07	8.71E-09	0.00E+00	1.93E-07	1.84E-07	8.71E-09	0.00E+00	1.93E-07	5.51E-08	1.57E-09	0.00E+00	5.67E-08	2.09E-08	5.06E-10	0.00E+00	2.14E-08
2296	458034.7	3769346	1.4E-07	6.61E-09	0.00E+00	1.46E-07	1.40E-07	6.61E-09	0.00E+00	1.46E-07	4.18E-08	1.19E-09	0.00E+00	4.30E-08	1.59E-08	3.84E-10	0.00E+00	1.62E-08
2297	458044.7	3769346	1.41E-07	6.69E-09	0.00E+00	1.48E-07	1.41E-07	6.69E-09	0.00E+00	1.48E-07	4.23E-08	1.20E-09	0.00E+00	4.35E-08	1.60E-08	3.88E-10	0.00E+00	1.64E-08
2298	458054.7	3769346	1.43E-07	6.76E-09	0.00E+00	1.50E-07	1.43E-07	6.76E-09	0.00E+00	1.50E-07	4.28E-08	1.22E-09	0.00E+00	4.40E-08	1.62E-08	3.93E-10	0.00E+00	1.66E-08
2299	458064.7	3769346	1.44E-07	6.84E-09	0.00E+00	1.51E-07	1.44E-07	6.84E-09	0.00E+00	1.51E-07	4.32E-08	1.23E-09	0.00E+00	4.45E-08	1.64E-08	3.97E-10	0.00E+00	1.68E-08
2300	458074.7	3769346	1.46E-07	6.91E-09	0.00E+00	1.53E-07	1.46E-07	6.91E-09	0.00E+00	1.53E-07	4.37E-08	1.24E-09	0.00E+00	4.50E-08	1.66E-08	4.01E-10	0.00E+00	1.70E-08
2301	458084.7	3769346	1.48E-07	6.99E-09	0.00E+00	1.55E-07	1.48E-07	6.99E-09	0.00E+00	1.55E-07	4.42E-08	1.26E-09	0.00E+00	4.55E-08	1.67E-08	4.06E-10	0.00E+00	1.72E-08
2302	458094.7	3769346	1.49E-07	7.07E-09	0.00E+00	1.56E-07	1.49E-07	7.07E-09	0.00E+00	1.56E-07	4.47E-08	1.27E-09	0.00E+00	4.60E-08	1.69E-08	4.10E-10	0.00E+00	1.74E-08
2303	458104.7	3769346	1.51E-07	7.16E-09	0.00E+00	1.58E-07	1.51E-07	7.16E-09	0.00E+00	1.58E-07	4.53E-08	1.29E-09	0.00E+00	4.66E-08	1.71E-08	4.15E-10	0.00E+00	1.76E-08
2304	458034.7	3769356	1.37E-07	6.48E-09	0.00E+00	1.43E-07	1.37E-07	6.48E-09	0.00E+00	1.43E-07	4.10E-08	1.17E-09	0.00E+00	4.22E-08	1.55E-08	3.76E-10	0.00E+00	1.59E-08
2305	458044.7	3769356	1.38E-07	6.55E-09	0.00E+00	1.45E-07	1.38E-07	6.55E-09	0.00E+00	1.45E-07	4.14E-08	1.18E-09	0.00E+00	4.26E-08	1.57E-08	3.80E-10	0.00E+00	1.61E-08
2306	458054.7	3769356	1.4E-07	6.62E-09	0.00E+00	1.46E-07	1.40E-07	6.62E-09	0.00E+00	1.46E-07	4.19E-08	1.19E-09	0.00E+00	4.31E-08	1.59E-08	3.84E-10	0.00E+00	1.62E-08
2307	458064.7	3769356	1.41E-07	6.69E-09	0.00E+00	1.48E-07	1.41E-07	6.69E-09	0.00E+00	1.48E-07	4.23E-08	1.20E-09	0.00E+00	4.35E-08	1.60E-08	3.89E-10	0.00E+00	1.64E-08

2308	458074.7	3769356	1.43E-07	6.77E-09	0.00E+00	1.50E-07	1.43E-07	6.77E-09	0.00E+00	1.50E-07	4.28E-08	1.22E-09	0.00E+00	4.40E-08	1.62E-08	3.93E-10	0.00E+00	1.66E-08
2309	458084.7	3769356	1.45E-07	6.85E-09	0.00E+00	1.51E-07	1.45E-07	6.85E-09	0.00E+00	1.51E-07	4.33E-08	1.23E-09	0.00E+00	4.45E-08	1.64E-08	3.97E-10	0.00E+00	1.68E-08
2310	458094.7	3769356	1.46E-07	6.92E-09	0.00E+00	1.53E-07	1.46E-07	6.92E-09	0.00E+00	1.53E-07	4.38E-08	1.24E-09	0.00E+00	4.50E-08	1.66E-08	4.02E-10	0.00E+00	1.70E-08
2311	458104.7	3769356	1.48E-07	7E-09	0.00E+00	1.55E-07	1.48E-07	7.00E-09	0.00E+00	1.55E-07	4.43E-08	1.26E-09	0.00E+00	4.55E-08	1.68E-08	4.06E-10	0.00E+00	1.72E-08
2312	458034.7	3769366	1.34E-07	6.35E-09	0.00E+00	1.40E-07	1.34E-07	6.35E-09	0.00E+00	1.40E-07	4.02E-08	1.14E-09	0.00E+00	4.13E-08	1.52E-08	3.69E-10	0.00E+00	1.56E-08
2313	458044.7	3769366	1.35E-07	6.41E-09	0.00E+00	1.42E-07	1.35E-07	6.41E-09	0.00E+00	1.42E-07	4.06E-08	1.15E-09	0.00E+00	4.17E-08	1.54E-08	3.72E-10	0.00E+00	1.57E-08
2314	458054.7	3769366	1.37E-07	6.48E-09	0.00E+00	1.43E-07	1.37E-07	6.48E-09	0.00E+00	1.43E-07	4.10E-08	1.16E-09	0.00E+00	4.21E-08	1.55E-08	3.76E-10	0.00E+00	1.59E-08
2315	458064.7	3769366	1.38E-07	6.56E-09	0.00E+00	1.45E-07	1.38E-07	6.56E-09	0.00E+00	1.45E-07	4.15E-08	1.18E-09	0.00E+00	4.27E-08	1.57E-08	3.81E-10	0.00E+00	1.61E-08
2316	458074.7	3769366	1.4E-07	6.64E-09	0.00E+00	1.47E-07	1.40E-07	6.64E-09	0.00E+00	1.47E-07	4.20E-08	1.19E-09	0.00E+00	4.32E-08	1.59E-08	3.85E-10	0.00E+00	1.63E-08
2317	458084.7	3769366	1.42E-07	6.71E-09	0.00E+00	1.48E-07	1.42E-07	6.71E-09	0.00E+00	1.48E-07	4.24E-08	1.21E-09	0.00E+00	4.36E-08	1.61E-08	3.89E-10	0.00E+00	1.65E-08
2318	458094.7	3769366	1.43E-07	6.78E-09	0.00E+00	1.50E-07	1.43E-07	6.78E-09	0.00E+00	1.50E-07	4.29E-08	1.22E-09	0.00E+00	4.41E-08	1.62E-08	3.93E-10	0.00E+00	1.66E-08
2319	458104.7	3769366	1.45E-07	6.84E-09	0.00E+00	1.51E-07	1.45E-07	6.84E-09	0.00E+00	1.51E-07	4.33E-08	1.23E-09	0.00E+00	4.45E-08	1.64E-08	3.97E-10	0.00E+00	1.68E-08
2320	458034.7	3769376	1.32E-07	6.23E-09	0.00E+00	1.38E-07	1.32E-07	6.23E-09	0.00E+00	1.38E-07	3.94E-08	1.12E-09	0.00E+00	4.05E-08	1.49E-08	3.62E-10	0.00E+00	1.53E-08
2321	458044.7	3769376	1.33E-07	6.29E-09	0.00E+00	1.39E-07	1.33E-07	6.29E-09	0.00E+00	1.39E-07	3.98E-08	1.13E-09	0.00E+00	4.09E-08	1.51E-08	3.65E-10	0.00E+00	1.54E-08
2322	458054.7	3769376	1.34E-07	6.36E-09	0.00E+00	1.41E-07	1.34E-07	6.36E-09	0.00E+00	1.41E-07	4.02E-08	1.14E-09	0.00E+00	4.13E-08	1.52E-08	3.69E-10	0.00E+00	1.56E-08
2323	458064.7	3769376	1.36E-07	6.43E-09	0.00E+00	1.42E-07	1.36E-07	6.43E-09	0.00E+00	1.42E-07	4.07E-08	1.16E-09	0.00E+00	4.18E-08	1.54E-08	3.73E-10	0.00E+00	1.58E-08
2324	458074.7	3769376	1.37E-07	6.51E-09	0.00E+00	1.44E-07	1.37E-07	6.51E-09	0.00E+00	1.44E-07	4.12E-08	1.17E-09	0.00E+00	4.23E-08	1.56E-08	3.78E-10	0.00E+00	1.60E-08
2325	458084.7	3769376	1.39E-07	6.58E-09	0.00E+00	1.46E-07	1.39E-07	6.58E-09	0.00E+00	1.46E-07	4.16E-08	1.18E-09	0.00E+00	4.28E-08	1.58E-08	3.82E-10	0.00E+00	1.61E-08
2326	458094.7	3769376	1.4E-07	6.64E-09	0.00E+00	1.47E-07	1.40E-07	6.64E-09	0.00E+00	1.47E-07	4.20E-08	1.19E-09	0.00E+00	4.32E-08	1.59E-08	3.86E-10	0.00E+00	1.63E-08
2327	458104.7	3769376	1.42E-07	6.71E-09	0.00E+00	1.48E-07	1.42E-07	6.71E-09	0.00E+00	1.48E-07	4.24E-08	1.21E-09	0.00E+00	4.36E-08	1.61E-08	3.89E-10	0.00E+00	1.65E-08
2328	458034.7	3769386	1.29E-07	6.12E-09	0.00E+00	1.35E-07	1.29E-07	6.12E-09	0.00E+00	1.35E-07	3.87E-08	1.10E-09	0.00E+00	3.98E-08	1.47E-08	3.55E-10	0.00E+00	1.50E-08
2329	458044.7	3769386	1.3E-07	6.17E-09	0.00E+00	1.37E-07	1.30E-07	6.17E-09	0.00E+00	1.37E-07	3.90E-08	1.11E-09	0.00E+00	4.02E-08	1.48E-08	3.58E-10	0.00E+00	1.51E-08
2330	458054.7	3769386	1.32E-07	6.24E-09	0.00E+00	1.38E-07	1.32E-07	6.24E-09	0.00E+00	1.38E-07	3.94E-08	1.12E-09	0.00E+00	4.06E-08	1.49E-08	3.62E-10	0.00E+00	1.53E-08
2331	458064.7	3769386	1.33E-07	6.31E-09	0.00E+00	1.40E-07	1.33E-07	6.31E-09	0.00E+00	1.40E-07	3.99E-08	1.13E-09	0.00E+00	4.10E-08	1.51E-08	3.66E-10	0.00E+00	1.55E-08
2332	458074.7	3769386	1.35E-07	6.38E-09	0.00E+00	1.41E-07	1.35E-07	6.38E-09	0.00E+00	1.41E-07	4.04E-08	1.15E-09	0.00E+00	4.15E-08	1.53E-08	3.71E-10	0.00E+00	1.57E-08
2333	458084.7	3769386	1.36E-07	6.45E-09	0.00E+00	1.43E-07	1.36E-07	6.45E-09	0.00E+00	1.43E-07	4.08E-08	1.16E-09	0.00E+00	4.20E-08	1.55E-08	3.74E-10	0.00E+00	1.58E-08
2334	458094.7	3769386	1.38E-07	6.51E-09	0.00E+00	1.44E-07	1.38E-07	6.51E-09	0.00E+00	1.44E-07	4.12E-08	1.17E-09	0.00E+00	4.24E-08	1.56E-08	3.78E-10	0.00E+00	1.60E-08
2335	458104.7	3769386	1.39E-07	6.58E-09	0.00E+00	1.46E-07	1.39E-07	6.58E-09	0.00E+00	1.46E-07	4.16E-08	1.18E-09	0.00E+00	4.28E-08	1.58E-08	3.82E-10	0.00E+00	1.61E-08
2336	458034.7	3769396	1.27E-07	6.01E-09	0.00E+00	1.33E-07	1.27E-07	6.01E-09	0.00E+00	1.33E-07	3.80E-08	1.08E-09	0.00E+00	3.91E-08	1.44E-08	3.49E-10	0.00E+00	1.47E-08
2337	458044.7	3769396	1.28E-07	6.06E-09	0.00E+00	1.34E-07	1.28E-07	6.06E-09	0.00E+00	1.34E-07	3.83E-08	1.09E-09	0.00E+00	3.94E-08	1.45E-08	3.52E-10	0.00E+00	1.49E-08
2338	458054.7	3769396	1.29E-07	6.12E-09	0.00E+00	1.35E-07	1.29E-07	6.12E-09	0.00E+00	1.35E-07	3.87E-08	1.10E-09	0.00E+00	3.98E-08	1.47E-08	3.55E-10	0.00E+00	1.50E-08
2339	458064.7	3769396	1.31E-07	6.19E-09	0.00E+00	1.37E-07	1.31E-07	6.19E-09	0.00E+00	1.37E-07	3.92E-08	1.11E-09	0.00E+00	4.03E-08	1.48E-08	3.59E-10	0.00E+00	1.52E-08
2340	458074.7	3769396	1.32E-07	6.26E-09	0.00E+00	1.39E-07	1.32E-07	6.26E-09	0.00E+00	1.39E-07	3.96E-08	1.13E-09	0.00E+00	4.07E-08	1.50E-08	3.64E-10	0.00E+00	1.54E-08
2341	458084.7	3769396	1.34E-07	6.33E-09	0.00E+00	1.40E-07	1.34E-07	6.33E-09	0.00E+00	1.40E-07	4.00E-08	1.14E-09	0.00E+00	4.12E-08	1.52E-08	3.67E-10	0.00E+00	1.55E-08
2342	458094.7	3769396	1.35E-07	6.39E-09	0.00E+00	1.41E-07	1.35E-07	6.39E-09	0.00E+00	1.41E-07	4.04E-08	1.15E-09	0.00E+00	4.16E-08	1.53E-08	3.71E-10	0.00E+00	1.57E-08
2343	458104.7	3769396	1.36E-07	6.45E-09	0.00E+00	1.43E-07	1.36E-07	6.45E-09	0.00E+00	1.43E-07	4.08E-08	1.16E-09	0.00E+00	4.20E-08	1.55E-08	3.74E-10	0.00E+00	1.58E-08
2344	458034.7	3769406	1.24E-07	5.89E-09	0.00E+00	1.30E-07	1.24E-07	5.89E-09	0.00E+00	1.30E-07	3.73E-08	1.06E-09	0.00E+00	3.83E-08	1.41E-08	3.42E-10	0.00E+00	1.45E-08
2345	458044.7	3769406	1.26E-07	5.95E-09	0.00E+00	1.32E-07	1.26E-07	5.95E-09	0.00E+00	1.32E-07	3.76E-08	1.07E-09	0.00E+00	3.87E-08	1.42E-08	3.45E-10	0.00E+00	1.46E-08
2346	458054.7	3769406	1.27E-07	6.01E-09	0.00E+00	1.33E-07	1.27E-07	6.01E-09	0.00E+00	1.33E-07	3.80E-08	1.08E-09	0.00E+00	3.91E-08	1.44E-08	3.49E-10	0.00E+00	1.47E-08
2347	458064.7	3769406	1.28E-07	6.07E-09	0.00E+00	1.34E-07	1.28E-07	6.07E-09	0.00E+00	1.34E-07	3.84E-08	1.09E-09	0.00E+00	3.95E-08	1.45E-08	3.52E-10	0.00E+00	1.49E-08
2348	458074.7	3769406	1.3E-07	6.14E-09	0.00E+00	1.36E-07	1.30E-07	6.14E-09	0.00E+00	1.36E-07	3.88E-08	1.10E-09	0.00E+00	3.99E-08	1.47E-08	3.56E-10	0.00E+00	1.51E-08
2349	458084.7	3769406	1.31E-07	6.2E-09	0.00E+00	1.37E-07	1.31E-07	6.20E-09	0.00E+00	1.37E-07	3.92E-08	1.11E-09	0.00E+00	4.03E-08	1.49E-08	3.60E-10	0.00E+00	1.52E-08
2350	458094.7	3769406	1.32E-07	6.26E-09	0.00E+00	1.39E-07	1.32E-07	6.26E-09	0.00E+00	1.39E-07	3.96E-08	1.13E-09	0.00E+00	4.07E-08	1.50E-08	3.64E-10	0.00E+00	1.54E-08
2351	458104.7	3769406	1.34E-07	6.33E-09	0.00E+00	1.40E-07	1.34E-07	6.33E-09	0.00E+00	1.40E-07	4.00E-08	1.14E-09	0.00E+00	4.12E-08	1.52E-08	3.67E-10	0.00E+00	1.55E-08
2352	458034.7	3769416	1.22E-07	5.78E-09	0.00E+00	1.28E-07	1.22E-07	5.78E-09	0.00E+00	1.28E-07	3.66E-08	1.04E-09	0.00E+00	3.76E-08	1.38E-08	3.35E-10	0.00E+00	1.42E-08
2353	458044.7	3769416	1.23E-07	5.84E-09	0.00E+00	1.29E-07	1.23E-07	5.84E-09	0.00E+00	1.29E-07	3.69E-08	1.05E-09	0.00E+00	3.80E-08	1.40E-08	3.39E-10	0.00E+00	1.43E-08
2354	458054.7	3769416	1.25E-07	5.9E-09	0.00E+00	1.30E-07	1.25E-07	5.90E-09	0.00E+00	1.30E-07	3.73E-08	1.06E-09	0.00E+00	3.84E-08	1.41E-08	3.42E-10	0.00E+00	1.45E-08
2355	458064.7	3769416	1.26E-07	5.95E-09	0.00E+00	1.32E-07	1.26E-07	5.95E-09	0.00E+00	1.32E-07	3.77E-08	1.07E-09	0.00E+00	3.87E-08	1.43E-08	3.46E-10	0.00E+00	1.46E-08
2356	458074.7	3769416	1.27E-07	6.01E-09	0.00E+00	1.33E-07	1.27E-07	6.01E-09	0.00E+00	1.33E-07	3.80E-08	1.08E-09	0.00E+00	3.91E-08	1.44E-08	3.49E-10	0.00E+00	1.48E-08
2357	458084.7	3769416	1.28E-07	6.07E-09	0.00E+00	1.34E-07	1.28E-07	6.07E-09	0.00E+00	1.34E-07	3.84E-08	1.09E-09	0.00E+00	3.95E-08	1.46E-08	3.53E-10	0.00E+00	1.49E-08
2358	458094.7	3769416	1.3E-07	6.14E-09	0.00E+00	1.36E-07	1.30E-07	6.14E-09	0.00E+00	1.36E-07	3.88E-08	1.10E-09	0.00E+00	3.99E-08	1.47E-08	3.56E-10	0.00E+00	1.51E-08
2359	458104.7	3769416	1.31E-07	6.21E-09	0.00E+00	1.37E-07	1.31E-07	6.21E-09	0.00E+00	1.37E-07	3.93E-08	1.12E-09	0.00E+00	4.04E-08	1.49E-08	3.60E-10	0.00E+00	1.52E-08
2360	458034.7	3769426	1.2E-07	5.67E-09	0.00E+00	1.25E-07	1.20E-07	5.67E-09	0.00E+00	1.25E-07	3.59E-08	1.02E-09	0.00E+00	3.69E-08	1.36E-08	3.29E-10	0.00E+00	1.39E-08
2361	458044.7	3769426	1.21E-07	5.73E-09	0.00E+00	1.27E-07	1.21E-07	5.73E-09	0.00E+00	1.27E-07	3.63E-08	1.03E-09	0.00E+00	3.73E-08	1.37E-08	3.33E-10	0.00E+00	1.41E-08
2362	458054.7	3769426	1.22E-07	5.79E-09	0.00E+00	1.28E-07	1.22E-07	5.79E-09	0.00E+00	1.28E-07	3.66E-08	1.04E-09	0.00E+00	3.77E-08	1.39E-08	3.36E-10	0.00E+00	1.42E-08
2363	458064.7	3769426	1.23E-07	5.84E-09	0.00E+00	1.29E-07	1.23E-07	5.84E-09	0.00E+00	1.29E-07	3.69E-08	1.05E-09	0.00E+00	3.80E-08	1.40E-08	3.39E-10	0.00E+00	1.43E-08
2364	458074.7	3769426	1.24E-07	5.89E-09	0.00E+00	1.30E-07	1.24E-07	5.89E-09	0.00E+00	1.30E-07	3.73E-08	1.06E-09	0.00E+00	3.83E-08	1.41E-08	3.42E-10	0.00E+00	1.45E-08
2365	458084.7	3769426	1.26E-07	5.95E-09	0.00E+00	1.32E-07	1.26E-07	5.95E-09	0.00E+00	1.32E-07	3.76E-08	1.07E-09	0.00E+00	3.87E-08	1.43E-08	3.45E-10	0.00E+00	1.46E-08
2366	458094.7	3769426	1.27E-07	6.02E-09	0.00E+00	1.33E-07	1.27E-07	6.02E-09	0.00E+00	1.33E-07	3.81E-08	1.08E-09	0.00E+00	3.92E-08	1.44E-08	3.49E-10	0.00E+00	1.48E-08
2367	458104.7	3769426	1.29E-07	6.09E-09	0.00E+00	1.35E-07	1.29E-07	6.09E-09	0.00E+00	1.35E-07	3.85E-08	1.09E-09	0.00E+00	3.96E-08	1.46E-08	3.53E-10	0.00E+00	1.49E-08
2368	458034.7	3769436	1.18E-07	5.57E-09	0.00E+00	1.23E-07	1.18E-07	5.57E-09	0.00E+00	1.23E-07	3.53E-08	1.00E-09	0.00E+00	3.63E-08	1.34E-08	3.24E-10	0.00E+00	1.37E-08
2369	458044.7	3769436	1.19E-07	5.63E-09	0.00E+00	1.25E-07	1.19E-07	5.63E-09	0.00E+00	1.25E-07	3.56E-08	1.01E-09	0.00E+00	3.66E-08	1.35E-08	3.27E-10	0.00E+00	1.38E-08
2370	458054.7	3769436	1.2E-07	5.69E-09	0.00E+00	1.26E-07	1.20E-07	5.69E-09	0.00E+00	1.26E-07	3.60E-08	1.02E-09	0.00E+00	3.70E-08	1.36E-08	3.30E-10	0.00E+00	1.40E-08
2371	458064.7	3769436	1.21E-07	5.74E-09	0.00E+00	1.27E-07	1.21E-07	5.74E-09	0.00E+00	1.27E-07	3.63E-08	1.03E-09	0.00E+00	3.73E-08	1.37E-08	3.33E-10	0.00E+00	1.41E-08
2372	458074.7	3769436	1.22E-07	5.79E-09	0.00E+00	1.28E-07	1.22E-07	5.79E-09	0.00E+00	1.28E-07	3.66E-08	1.04E-09	0.00E+00	3.76E-08	1.39E-08	3.36E-10	0.00E+00	1.42E-08
2373	458084.7	3769436	1.23E-07	5.84E-09	0.00E+00	1.29E-07	1.23E-07	5.84E-09	0.00E+00	1.29E-07	3.70E-08	1.05E-09	0.00E+00	3.80E-08	1.40E-08	3.39E-10	0.00E+00	1.43E-08
2374	458094.7	3769436	1.25E-07	5.91E-09	0.00E+00	1.31E-07	1.25E-07	5.91E-09	0.00E+00	1.31E-07	3.74E-08	1.06E-09	0.00E+00	3.84E-08	1.42E-08	3.43E-10	0.00E+00	1.45E-08
2375	458104.7	3769436	1.26E-07	5.98E-09	0.00E+00	1.32E-07	1.26E-07	5.98E-09	0.00E+00	1.32E-07	3.78E-08	1.07E-09	0.00E+00	3.89E-08	1.43E-08	3.47E-10	0.00E+00	1.47E-08
2376	458034.7	3769446	1.16E-07	5.48E-09	0.00E+00	1.21E-07	1.16E-07	5.48E-09	0.00E+00	1.21E-07	3.47E-08	9.85E-10	0.00E+00	3.56E-08	1.31E-08	3.18E-10	0.00E+00	1.34E-08
2377	458044.7	3769446	1.17E-07	5.54E-09	0.00E+00	1.22E-07	1.17E-07	5.54E-09	0.00E+00	1.22E-07	3.50E-08	9.95E-10	0.00E+00	3.60E-08	1.33E-08	3.21E-10	0.00E+00	1.36E-08
2378	458054.7	3769446	1.18E-07	5.59E-09	0.00E+00	1.24E-07	1.18E-07	5.59E-09	0.00E+00	1.24E-07	3.53E-08	1.00E-09	0.00E+00	3.64E-08	1.34E-08	3.24E-10	0.00E+00	1.37E-08
2379	458064.7	3769446	1.19E-07	5.64E-09	0.00E+00	1.25E-07	1.19E-07	5.64E-09	0.00E+00	1.25E-07	3.57E-08	1.01E-09	0.00E+00	3.67E-08	1.35E-08	3.27E-10	0.00E+00	1.38E-08
2380	458074.7	3769446	1.2E-07	5.68E-09	0.00E+00	1.26E-07	1.20E-07	5.68E-09	0.00E+00	1.26E-07	3.60E-08	1.02E-09	0.00E+00	3.70E-08	1.36E-08	3.30E-10	0.00E+00	1.40E-08
2381	458084.7	3769446	1.21E-07	5.74E-09	0.00E+00	1.27E-07	1.21E-07	5.74E-09	0.00E+00	1.27E-07	3.63E-08	1.03E-09	0.00E+00	3.73E-08	1.38E-08	3.33E-10	0.00E+00	1.41E-08
2382	458094.7	3769446	1.23E-07	5.8E-09	0.00E+00	1.28E-07	1.23E-07	5.80E-09	0.00E+00	1.28E-07	3.67E-08	1.04E-09	0.00E+00	3.78E-08	1.39E-08	3.37E-10	0.00E+00	1.42E-08
2383	458104.7	3769446	1.24E-07	5.87E-09	0.00E+00	1.30E-07	1.24E-07	5.87E-09	0.00E+00	1.30E-07	3.71E-08	1.06E-09	0.00E+00	3.82E-08	1.41E-08	3.41E-10	0.00E+00	1.44E-08
2384	458034.7	3769456	1.14E-07	5.39E-09	0.00E+00	1.19E-07	1.14E-07	5.39E-09	0.00E+00	1.19E-07	3.41E-08	9.68E-10	0.00E+00	3.50E-08	1.29E-08	3.13E-10	0.00E+00	1.32E-08
2385	458044.7	3769456	1.15E-07	5.44E-09	0.00E+00	1.20E-07	1.15E-07	5.44E-09	0.00E+00	1.20E-07	3.44E-08	9.78E-10	0.00E+00	3.54E-08	1.30E-08	3.16E-10	0.00E+00	1.34E-08
2386	458054.7	3769456	1.16E-07	5.49E-09	0.00E+00	1.21E-07	1.16E-07	5.49E-09	0.00E+00	1.21E-07	3.47E-08	9.87E-10	0.00E+00	3.57E-08	1.32E-08	3.19E-10	0.00E+00	1.35E-08
2387	458064.7	3769456	1.17E-07	5.54E-09	0.00E+00	1.23E-07	1.17E-07	5.54E-09	0.00E+00	1.23E-07	3.50E-08	9.96E-10	0.00E+00	3.60E-08	1.33E-08	3.21E-10	0.00E+00	1.36E-08
2388	458074.7	3769456	1.18E-07	5.59E-09	0.00E+00	1.24E-07	1.18E-07	5.59E-09	0.00E+00	1.24E-07	3.53E-08	1.00E-09	0.00E+00	3.63E-08	1.34E-08	3.24E-10	0.00E+00	1.37E-08
2389	458084.7	3769456	1.19E-07	5.64E-09	0.00E+00	1.25E-07	1.19E-07	5.64E-09	0.00E+00	1.25E-07	3.57E-08	1.01E-09	0.00E+00	3.67E-08	1.35E-08	3.27E-10	0.00E+00	1.38E-08
2390	458094.7	3769456	1.2E-07	5.7E-09	0.00E+00	1.26E-07	1.20E-07	5.70E-09	0.00E+00	1.26E-07	3.61E-08	1.03E-09	0.00E+00	3.71E-08	1.37E-08	3.31E-10	0.00E+00	1.40E-08
2391	458104.7	3769456	1.22E-07	5.76E-09	0.00E+00	1.28E-07	1.22E-07	5.76E-09	0.00E+00	1.28E-07	3.65E-08	1.04E-09	0.00E+00	3.75E-08	1.38E-08	3.35E-10	0.00E+00	1.41E-08
2392	458174.7	3769456	1.32E-07	6.25E-09	0.00E+00	1.38E-07	1.32E-07	6.25E-09	0.00E+00	1.38E-07	3.96E-08	1.12E-09	0.00E+00	4.07E-08	1.50E-08	3.63E-10	0.00E+00	1.53E-08
2393	458184.7	3769456	1.34E-07	6.34E-09	0.00E+00	1.40E-07	1.34E-07	6.34E-09	0.00E+00	1.40E-07	4.01E-08	1.14E-09	0.00E+00	4.13E-08	1.52E-08	3.68E-10	0.00E+00	1.56E-08
2394	458194.7	3769456	1.36E-07	6.43E-09	0.00E+00	1.42E-07	1.36E-07	6.43E-09	0.00E+00	1.42E-07	4.07E-08	1.16E-09	0.00E+00	4.19E-08	1.54E-08	3.73E-10	0.00E+00	1.58E-08
2395	458204.7	3769456	1.38E-07	6.51E-09	0.00E+00	1.44E-07	1.38E-07	6.51E-09	0.00E+00	1.44E-07	4.12E-08	1.17E-09	0.00E+00	4.24E-08	1.56E-08	3.78E-10	0.00E+00	1.60E-08
2396	458214.7	3769456	1.39E-07	6.57E-09	0.00E+00	1.45E-07	1.39E-07	6.57E-09	0.00E+00	1.45E-07	4.16E-08	1.18E-09	0.00E+00	4.28E-08	1.58E-08	3.82E-10	0.00E+00	1.61E-08
2397	458224.7	3769456	1.4E-07	6.64E-09	0.00E+00	1.47E-07	1.40E-07	6.64E-09	0.00E+00	1.47E-07	4.20E-08	1.19E-09	0.00E+00	4.32E-08	1.59E-08	3.85E-10	0.00E+00	1.63E-08
2398	458234.7	3769456	1.42E-07	6.71E-09	0.00E+00	1.49E-07	1.42E-07	6.71E-09	0.00E+00	1.49E-07	4.25E-08	1.21E-09	0.00E+00	4.37E-08	1.61E-08	3.90E-10	0.00E+00	1.65E-08
2399	458034.7	3769466	1.12E-07	5.3E-09	0.00E+00	1.17E-07	1.12E-07	5.30E-09	0.00E+00	1.17E-07	3.35E-08	9.52E-10	0.00E+00	3.45E-08	1.27E-08	3.07E-10	0.00E+00	1.30E-08
2400	458044.7	3769466	1.13E-07	5.35E-09	0.00E+00	1.18E-07	1.13E-07	5.35E-09	0.00E+00	1.18E-07	3.38E-08	9.62E-10	0.00E+00	3.48E-08	1.28E-08	3.11E-10	0.00E+00	1.31E-08
2401	458054.7	3769466	1.14E-07	5.4E-09	0.00E+00	1.19E-07	1.14E-07	5.40E-09	0.00E+00	1.19E-07	3.42E-08	9.71E-10	0.00E+00	3.51E-08	1.29E-08	3.13E-10	0.00E+00	1.32E-08
2402	458064.7	3769466	1.15E-07	5.44E-09	0.00E+00	1.20E-07	1.15E-07	5.44E-09	0.00E+00	1.20E-07	3.44E-08	9.79E-10	0.00E+00	3.54E-08	1.30E-08	3.16E-10	0.00E+00	1.34E-08
2403	458074.7	3769466	1.16E-07	5.49E-09	0.00E+00	1.21E-07	1.16E-07	5.49E-09	0.00E+00	1.21E-07	3.47E-08	9.87E-10	0.00E+00	3.57E-08	1.32E-08	3.19E-10	0.00E+00	1.35E-08
2404	458084.7	3769466	1.17E-07	5.54E-09	0.00E+00	1.23E-07	1.17E-07	5.54E-09	0.00E+00	1.23E-07	3.50E-08	9.96E-10	0.00E+00	3.60E-08	1.33E-08	3.22E-10	0.00E+00	1.36E-08
2405	458094.7	3769466	1.18E-07	5.6E-09	0.00E+00	1.24E-07	1.18E-07	5.60E-09	0.00E+00	1.24E-07	3.54E-08	1.01E-09	0.00E+00	3.64E-08	1.34E-08	3.25E-10	0.00E+00	1.37E-08
2406	458104.7	3769466	1.19E-07	5.65E-09	0.00E+00	1.25E-07	1.19E-07	5.65E-09	0.00E+00	1.25E-07	3.58E-08	1.02E-09	0.00E+00	3.68E-08	1.35E-08	3.28E-10	0.00E+00	1.39E-08
2407	458174.7	3769466	1.3E-07	6.14E-09	0.00E+00	1.36E-07	1.30E-07	6.14E-09	0.00E+00	1.36E-07	3.88E-08	1.10E-09	0.00E+00	3.99E-08	1.47E-08	3.56E-10	0.00E+00	1.51E-08
2408	458184.7	3769466	1.31E-07	6.22E-09	0.00E+00	1.38E-07	1.31E-07	6.22E-09	0.00E+00	1.38E-07	3.93E-08	1.12E-09	0.00E+00	4.04E-08	1.49E-08	3.61E-10	0.00E+00	1.53E-08
2409	458194.7	3769466	1.33E-07	6.3E-09	0.00E+00	1.39E-07	1.33E-07	6.30E-09	0.00E+00	1.39E-07	3.99E-08	1.13E-09	0.00E+00	4.10E-08	1.51E-08	3.66E-10	0.00E+00	1.55E-08
2410	458204.7	3769466	1.35E-07	6.38E-09	0.00E+00	1.41E-07	1.35E-07	6.38E-09	0.00E+00	1.41E-07	4.03E-08	1.15E-09	0.00E+00	4.15E-08	1.53E-08	3.70E-10	0.00E+00	1.56E-08
2411	458214.7	3769466	1.36E-07	6.44E-09	0.00E+00	1.42E-07	1.36E-07	6.44E-09	0.00E+00	1.42E-07	4.07E-08	1.16E-09	0.00E+00	4.19E-08	1.54E-08	3.74E-10	0.00E+00	1.58E-08
2412	458224.7	3769466	1.37E-07	6.51E-09	0.00E+00	1.44E-07	1.37E-07	6.51E-09	0.00E+00	1.44E-07	4.12E-08	1.17E-09	0.00E+00	4.23E-08	1.56E-08	3.78E-10	0.00E+00	1.60E-08
2413	458234.7	3769466	1.39E-07	6.58E-09	0.00E+00	1.46E-07	1.39E-07	6.58E-09	0.00E+00	1.46E-07	4.16E-08	1.18E-09	0.00E+00	4.28E-08	1.58E-08	3.82E-10	0.00E+00	1.62E-08
2414	458034.7	3769476	1.1E-07	5.21E-09	0.00E+00	1.15E-07	1.10E-07	5.21E-09	0.00E+00	1.15E-07	3.29E-08	9.37E-10	0.00E+00	3.39E-08	1.25E-08	3.02E-10	0.00E+00	1.28E-08
2415	458044.7	3769476	1.11E-07	5.26E-09	0.00E+00	1.16E-07	1.11E-07	5.26E-09	0.00E+00	1.16E-07	3.33E-08	9.46E-10	0.00E+00	3.42E-08	1.26E-08	3.05E-10	0.00E+00	1.29E-08
2416	458054.7	3769476	1.12E-07	5.31E-09	0.00E+00	1.17E-07	1.12E-07	5.31E-09	0.00E+00	1.17E-07	3.36E-08	9.54E-10	0.00E+00	3.45E-08	1.27E-08	3.08E-10	0.00E+00	1.30E-08
2417	458064.7	3769476	1.13E-07	5.35E-09	0.00E+00	1.18E-07	1.13E-07	5.35E-09	0.00E+00	1.18E-07	3.39E-08	9.62E-10	0.00E+00	3.48E-08	1.28E-08	3.11E-10	0.00E+00	1.31E-08

2418	458074.7	3769476	1.14E-07	5.4E-09	0.00E+00	1.19E-07	1.14E-07	5.40E-09	0.00E+00	1.19E-07	3.41E-08	9.70E-10	0.00E+00	3.51E-08	1.29E-08	3.13E-10	0.00E+00	1.32E-08
2419	458084.7	3769476	1.15E-07	5.44E-09	0.00E+00	1.20E-07	1.15E-07	5.44E-09	0.00E+00	1.20E-07	3.44E-08	9.79E-10	0.00E+00	3.54E-08	1.30E-08	3.16E-10	0.00E+00	1.34E-08
2420	458094.7	3769476	1.16E-07	5.49E-09	0.00E+00	1.22E-07	1.16E-07	5.49E-09	0.00E+00	1.22E-07	3.47E-08	9.88E-10	0.00E+00	3.57E-08	1.32E-08	3.19E-10	0.00E+00	1.35E-08
2421	458104.7	3769476	1.17E-07	5.54E-09	0.00E+00	1.23E-07	1.17E-07	5.54E-09	0.00E+00	1.23E-07	3.51E-08	9.97E-10	0.00E+00	3.61E-08	1.33E-08	3.22E-10	0.00E+00	1.36E-08
2422	458174.7	3769476	1.27E-07	6.02E-09	0.00E+00	1.33E-07	1.27E-07	6.02E-09	0.00E+00	1.33E-07	3.81E-08	1.08E-09	0.00E+00	3.92E-08	1.44E-08	3.49E-10	0.00E+00	1.48E-08
2423	458184.7	3769476	1.29E-07	6.09E-09	0.00E+00	1.35E-07	1.29E-07	6.09E-09	0.00E+00	1.35E-07	3.86E-08	1.10E-09	0.00E+00	3.97E-08	1.46E-08	3.54E-10	0.00E+00	1.50E-08
2424	458194.7	3769476	1.3E-07	6.17E-09	0.00E+00	1.37E-07	1.30E-07	6.17E-09	0.00E+00	1.37E-07	3.90E-08	1.11E-09	0.00E+00	4.01E-08	1.48E-08	3.58E-10	0.00E+00	1.51E-08
2425	458204.7	3769476	1.32E-07	6.24E-09	0.00E+00	1.38E-07	1.32E-07	6.24E-09	0.00E+00	1.38E-07	3.95E-08	1.12E-09	0.00E+00	4.06E-08	1.50E-08	3.62E-10	0.00E+00	1.53E-08
2426	458214.7	3769476	1.33E-07	6.31E-09	0.00E+00	1.40E-07	1.33E-07	6.31E-09	0.00E+00	1.40E-07	3.99E-08	1.14E-09	0.00E+00	4.11E-08	1.51E-08	3.66E-10	0.00E+00	1.55E-08
2427	458224.7	3769476	1.35E-07	6.38E-09	0.00E+00	1.41E-07	1.35E-07	6.38E-09	0.00E+00	1.41E-07	4.04E-08	1.15E-09	0.00E+00	4.15E-08	1.53E-08	3.70E-10	0.00E+00	1.57E-08
2428	458234.7	3769476	1.36E-07	6.46E-09	0.00E+00	1.43E-07	1.36E-07	6.46E-09	0.00E+00	1.43E-07	4.08E-08	1.16E-09	0.00E+00	4.20E-08	1.55E-08	3.75E-10	0.00E+00	1.58E-08
2429	458034.7	3769486	1.08E-07	5.12E-09	0.00E+00	1.13E-07	1.08E-07	5.12E-09	0.00E+00	1.13E-07	3.24E-08	9.21E-10	0.00E+00	3.33E-08	1.23E-08	2.97E-10	0.00E+00	1.26E-08
2430	458044.7	3769486	1.09E-07	5.17E-09	0.00E+00	1.14E-07	1.09E-07	5.17E-09	0.00E+00	1.14E-07	3.27E-08	9.30E-10	0.00E+00	3.37E-08	1.24E-08	3.00E-10	0.00E+00	1.27E-08
2431	458054.7	3769486	1.1E-07	5.22E-09	0.00E+00	1.15E-07	1.10E-07	5.22E-09	0.00E+00	1.15E-07	3.30E-08	9.39E-10	0.00E+00	3.40E-08	1.25E-08	3.03E-10	0.00E+00	1.28E-08
2432	458064.7	3769486	1.11E-07	5.26E-09	0.00E+00	1.16E-07	1.11E-07	5.26E-09	0.00E+00	1.16E-07	3.33E-08	9.46E-10	0.00E+00	3.42E-08	1.26E-08	3.05E-10	0.00E+00	1.29E-08
2433	458074.7	3769486	1.12E-07	5.3E-09	0.00E+00	1.17E-07	1.12E-07	5.30E-09	0.00E+00	1.17E-07	3.36E-08	9.54E-10	0.00E+00	3.45E-08	1.27E-08	3.08E-10	0.00E+00	1.30E-08
2434	458084.7	3769486	1.13E-07	5.35E-09	0.00E+00	1.18E-07	1.13E-07	5.35E-09	0.00E+00	1.18E-07	3.38E-08	9.62E-10	0.00E+00	3.48E-08	1.28E-08	3.10E-10	0.00E+00	1.31E-08
2435	458094.7	3769486	1.14E-07	5.39E-09	0.00E+00	1.19E-07	1.14E-07	5.39E-09	0.00E+00	1.19E-07	3.41E-08	9.70E-10	0.00E+00	3.51E-08	1.29E-08	3.13E-10	0.00E+00	1.32E-08
2436	458104.7	3769486	1.15E-07	5.44E-09	0.00E+00	1.20E-07	1.15E-07	5.44E-09	0.00E+00	1.20E-07	3.44E-08	9.78E-10	0.00E+00	3.54E-08	1.30E-08	3.16E-10	0.00E+00	1.33E-08
2437	458174.7	3769486	1.25E-07	5.91E-09	0.00E+00	1.31E-07	1.25E-07	5.91E-09	0.00E+00	1.31E-07	3.74E-08	1.06E-09	0.00E+00	3.84E-08	1.42E-08	3.43E-10	0.00E+00	1.45E-08
2438	458184.7	3769486	1.26E-07	5.98E-09	0.00E+00	1.32E-07	1.26E-07	5.98E-09	0.00E+00	1.32E-07	3.78E-08	1.07E-09	0.00E+00	3.89E-08	1.43E-08	3.47E-10	0.00E+00	1.47E-08
2439	458194.7	3769486	1.28E-07	6.05E-09	0.00E+00	1.34E-07	1.28E-07	6.05E-09	0.00E+00	1.34E-07	3.82E-08	1.09E-09	0.00E+00	3.93E-08	1.45E-08	3.51E-10	0.00E+00	1.48E-08
2440	458204.7	3769486	1.29E-07	6.12E-09	0.00E+00	1.35E-07	1.29E-07	6.12E-09	0.00E+00	1.35E-07	3.87E-08	1.10E-09	0.00E+00	3.98E-08	1.47E-08	3.55E-10	0.00E+00	1.50E-08
2441	458214.7	3769486	1.31E-07	6.19E-09	0.00E+00	1.37E-07	1.31E-07	6.19E-09	0.00E+00	1.37E-07	3.91E-08	1.11E-09	0.00E+00	4.03E-08	1.48E-08	3.59E-10	0.00E+00	1.52E-08
2442	458224.7	3769486	1.32E-07	6.26E-09	0.00E+00	1.38E-07	1.32E-07	6.26E-09	0.00E+00	1.38E-07	3.96E-08	1.13E-09	0.00E+00	4.07E-08	1.50E-08	3.63E-10	0.00E+00	1.54E-08
2443	458234.7	3769486	1.34E-07	6.33E-09	0.00E+00	1.40E-07	1.34E-07	6.33E-09	0.00E+00	1.40E-07	4.01E-08	1.14E-09	0.00E+00	4.12E-08	1.52E-08	3.68E-10	0.00E+00	1.55E-08
2444	458034.7	3769496	1.06E-07	5.04E-09	0.00E+00	1.12E-07	1.06E-07	5.04E-09	0.00E+00	1.12E-07	3.19E-08	9.06E-10	0.00E+00	3.28E-08	1.21E-08	2.93E-10	0.00E+00	1.24E-08
2445	458044.7	3769496	1.08E-07	5.09E-09	0.00E+00	1.13E-07	1.08E-07	5.09E-09	0.00E+00	1.13E-07	3.22E-08	9.15E-10	0.00E+00	3.31E-08	1.22E-08	2.95E-10	0.00E+00	1.25E-08
2446	458054.7	3769496	1.08E-07	5.13E-09	0.00E+00	1.14E-07	1.08E-07	5.13E-09	0.00E+00	1.14E-07	3.25E-08	9.23E-10	0.00E+00	3.34E-08	1.23E-08	2.98E-10	0.00E+00	1.26E-08
2447	458064.7	3769496	1.09E-07	5.18E-09	0.00E+00	1.14E-07	1.09E-07	5.18E-09	0.00E+00	1.14E-07	3.27E-08	9.31E-10	0.00E+00	3.37E-08	1.24E-08	3.00E-10	0.00E+00	1.27E-08
2448	458074.7	3769496	1.1E-07	5.22E-09	0.00E+00	1.15E-07	1.10E-07	5.22E-09	0.00E+00	1.15E-07	3.30E-08	9.38E-10	0.00E+00	3.39E-08	1.25E-08	3.03E-10	0.00E+00	1.28E-08
2449	458084.7	3769496	1.11E-07	5.26E-09	0.00E+00	1.16E-07	1.11E-07	5.26E-09	0.00E+00	1.16E-07	3.33E-08	9.45E-10	0.00E+00	3.42E-08	1.26E-08	3.05E-10	0.00E+00	1.29E-08
2450	458094.7	3769496	1.12E-07	5.3E-09	0.00E+00	1.17E-07	1.12E-07	5.30E-09	0.00E+00	1.17E-07	3.35E-08	9.52E-10	0.00E+00	3.45E-08	1.27E-08	3.07E-10	0.00E+00	1.30E-08
2451	458104.7	3769496	1.13E-07	5.34E-09	0.00E+00	1.18E-07	1.13E-07	5.34E-09	0.00E+00	1.18E-07	3.38E-08	9.60E-10	0.00E+00	3.47E-08	1.28E-08	3.10E-10	0.00E+00	1.31E-08
2452	458174.7	3769496	1.23E-07	5.8E-09	0.00E+00	1.28E-07	1.23E-07	5.80E-09	0.00E+00	1.28E-07	3.67E-08	1.04E-09	0.00E+00	3.77E-08	1.39E-08	3.37E-10	0.00E+00	1.42E-08
2453	458184.7	3769496	1.24E-07	5.87E-09	0.00E+00	1.30E-07	1.24E-07	5.87E-09	0.00E+00	1.30E-07	3.71E-08	1.06E-09	0.00E+00	3.82E-08	1.41E-08	3.41E-10	0.00E+00	1.44E-08
2454	458194.7	3769496	1.25E-07	5.94E-09	0.00E+00	1.31E-07	1.25E-07	5.94E-09	0.00E+00	1.31E-07	3.75E-08	1.07E-09	0.00E+00	3.86E-08	1.42E-08	3.45E-10	0.00E+00	1.46E-08
2455	458204.7	3769496	1.27E-07	6E-09	0.00E+00	1.33E-07	1.27E-07	6.00E-09	0.00E+00	1.33E-07	3.80E-08	1.08E-09	0.00E+00	3.91E-08	1.44E-08	3.48E-10	0.00E+00	1.47E-08
2456	458214.7	3769496	1.28E-07	6.07E-09	0.00E+00	1.34E-07	1.28E-07	6.07E-09	0.00E+00	1.34E-07	3.84E-08	1.09E-09	0.00E+00	3.95E-08	1.46E-08	3.53E-10	0.00E+00	1.49E-08
2457	458224.7	3769496	1.3E-07	6.14E-09	0.00E+00	1.36E-07	1.30E-07	6.14E-09	0.00E+00	1.36E-07	3.89E-08	1.10E-09	0.00E+00	4.00E-08	1.47E-08	3.57E-10	0.00E+00	1.51E-08
2458	458234.7	3769496	1.31E-07	6.21E-09	0.00E+00	1.37E-07	1.31E-07	6.21E-09	0.00E+00	1.37E-07	3.93E-08	1.12E-09	0.00E+00	4.04E-08	1.49E-08	3.61E-10	0.00E+00	1.53E-08
2459	458034.7	3769506	1.05E-07	4.96E-09	0.00E+00	1.10E-07	1.05E-07	4.96E-09	0.00E+00	1.10E-07	3.14E-08	8.92E-10	0.00E+00	3.23E-08	1.19E-08	2.88E-10	0.00E+00	1.22E-08
2460	458044.7	3769506	1.06E-07	5.01E-09	0.00E+00	1.11E-07	1.06E-07	5.01E-09	0.00E+00	1.11E-07	3.17E-08	9.01E-10	0.00E+00	3.26E-08	1.20E-08	2.91E-10	0.00E+00	1.23E-08
2461	458054.7	3769506	1.07E-07	5.05E-09	0.00E+00	1.12E-07	1.07E-07	5.05E-09	0.00E+00	1.12E-07	3.20E-08	9.08E-10	0.00E+00	3.29E-08	1.21E-08	2.93E-10	0.00E+00	1.24E-08
2462	458064.7	3769506	1.08E-07	5.09E-09	0.00E+00	1.13E-07	1.08E-07	5.09E-09	0.00E+00	1.13E-07	3.22E-08	9.15E-10	0.00E+00	3.31E-08	1.22E-08	2.95E-10	0.00E+00	1.25E-08
2463	458074.7	3769506	1.08E-07	5.13E-09	0.00E+00	1.14E-07	1.08E-07	5.13E-09	0.00E+00	1.14E-07	3.25E-08	9.23E-10	0.00E+00	3.34E-08	1.23E-08	2.98E-10	0.00E+00	1.26E-08
2464	458084.7	3769506	1.09E-07	5.17E-09	0.00E+00	1.14E-07	1.09E-07	5.17E-09	0.00E+00	1.14E-07	3.27E-08	9.29E-10	0.00E+00	3.36E-08	1.24E-08	3.00E-10	0.00E+00	1.27E-08
2465	458094.7	3769506	1.1E-07	5.2E-09	0.00E+00	1.15E-07	1.10E-07	5.20E-09	0.00E+00	1.15E-07	3.29E-08	9.36E-10	0.00E+00	3.38E-08	1.25E-08	3.02E-10	0.00E+00	1.28E-08
2466	458204.7	3769506	1.25E-07	5.89E-09	0.00E+00	1.30E-07	1.25E-07	5.89E-09	0.00E+00	1.30E-07	3.73E-08	1.06E-09	0.00E+00	3.83E-08	1.41E-08	3.42E-10	0.00E+00	1.45E-08
2467	458214.7	3769506	1.26E-07	5.96E-09	0.00E+00	1.32E-07	1.26E-07	5.96E-09	0.00E+00	1.32E-07	3.77E-08	1.07E-09	0.00E+00	3.88E-08	1.43E-08	3.46E-10	0.00E+00	1.46E-08
2468	458224.7	3769506	1.27E-07	6.03E-09	0.00E+00	1.33E-07	1.27E-07	6.03E-09	0.00E+00	1.33E-07	3.82E-08	1.08E-09	0.00E+00	3.92E-08	1.45E-08	3.50E-10	0.00E+00	1.48E-08
2469	458234.7	3769506	1.29E-07	6.1E-09	0.00E+00	1.35E-07	1.29E-07	6.10E-09	0.00E+00	1.35E-07	3.86E-08	1.10E-09	0.00E+00	3.97E-08	1.46E-08	3.54E-10	0.00E+00	1.50E-08
2470	458034.7	3769516	1.03E-07	4.88E-09	0.00E+00	1.08E-07	1.03E-07	4.88E-09	0.00E+00	1.08E-07	3.09E-08	8.78E-10	0.00E+00	3.18E-08	1.17E-08	2.83E-10	0.00E+00	1.20E-08
2471	458044.7	3769516	1.04E-07	4.93E-09	0.00E+00	1.09E-07	1.04E-07	4.93E-09	0.00E+00	1.09E-07	3.12E-08	8.86E-10	0.00E+00	3.21E-08	1.18E-08	2.86E-10	0.00E+00	1.21E-08
2472	458054.7	3769516	1.05E-07	4.97E-09	0.00E+00	1.10E-07	1.05E-07	4.97E-09	0.00E+00	1.10E-07	3.14E-08	8.94E-10	0.00E+00	3.23E-08	1.19E-08	2.89E-10	0.00E+00	1.22E-08
2473	458064.7	3769516	1.06E-07	5.01E-09	0.00E+00	1.11E-07	1.06E-07	5.01E-09	0.00E+00	1.11E-07	3.17E-08	9.01E-10	0.00E+00	3.26E-08	1.20E-08	2.91E-10	0.00E+00	1.23E-08
2474	458074.7	3769516	1.07E-07	5.05E-09	0.00E+00	1.12E-07	1.07E-07	5.05E-09	0.00E+00	1.12E-07	3.19E-08	9.08E-10	0.00E+00	3.28E-08	1.21E-08	2.93E-10	0.00E+00	1.24E-08
2475	458084.7	3769516	1.07E-07	5.08E-09	0.00E+00	1.12E-07	1.07E-07	5.08E-09	0.00E+00	1.12E-07	3.21E-08	9.14E-10	0.00E+00	3.31E-08	1.22E-08	2.95E-10	0.00E+00	1.25E-08
2476	458094.7	3769516	1.08E-07	5.11E-09	0.00E+00	1.13E-07	1.08E-07	5.11E-09	0.00E+00	1.13E-07	3.23E-08	9.19E-10	0.00E+00	3.33E-08	1.22E-08	2.97E-10	0.00E+00	1.25E-08
2477	458214.7	3769516	1.24E-07	5.85E-09	0.00E+00	1.30E-07	1.24E-07	5.85E-09	0.00E+00	1.30E-07	3.70E-08	1.05E-09	0.00E+00	3.81E-08	1.40E-08	3.40E-10	0.00E+00	1.44E-08
2478	458224.7	3769516	1.25E-07	5.92E-09	0.00E+00	1.31E-07	1.25E-07	5.92E-09	0.00E+00	1.31E-07	3.75E-08	1.06E-09	0.00E+00	3.85E-08	1.42E-08	3.44E-10	0.00E+00	1.45E-08
2479	458234.7	3769516	1.26E-07	5.98E-09	0.00E+00	1.32E-07	1.26E-07	5.98E-09	0.00E+00	1.32E-07	3.78E-08	1.08E-09	0.00E+00	3.89E-08	1.43E-08	3.47E-10	0.00E+00	1.47E-08
2480	458034.7	3769526	1.01E-07	4.8E-09	0.00E+00	1.06E-07	1.01E-07	4.80E-09	0.00E+00	1.06E-07	3.03E-08	8.63E-10	0.00E+00	3.12E-08	1.15E-08	2.78E-10	0.00E+00	1.18E-08
2481	458044.7	3769526	1.02E-07	4.84E-09	0.00E+00	1.07E-07	1.02E-07	4.84E-09	0.00E+00	1.07E-07	3.06E-08	8.71E-10	0.00E+00	3.15E-08	1.16E-08	2.81E-10	0.00E+00	1.19E-08
2482	458054.7	3769526	1.03E-07	4.88E-09	0.00E+00	1.08E-07	1.03E-07	4.88E-09	0.00E+00	1.08E-07	3.09E-08	8.78E-10	0.00E+00	3.18E-08	1.17E-08	2.84E-10	0.00E+00	1.20E-08
2483	458064.7	3769526	1.04E-07	4.92E-09	0.00E+00	1.09E-07	1.04E-07	4.92E-09	0.00E+00	1.09E-07	3.11E-08	8.85E-10	0.00E+00	3.20E-08	1.18E-08	2.86E-10	0.00E+00	1.21E-08
2484	458074.7	3769526	1.05E-07	4.96E-09	0.00E+00	1.10E-07	1.05E-07	4.96E-09	0.00E+00	1.10E-07	3.14E-08	8.93E-10	0.00E+00	3.23E-08	1.19E-08	2.88E-10	0.00E+00	1.22E-08
2485	458084.7	3769526	1.06E-07	5E-09	0.00E+00	1.11E-07	1.06E-07	5.00E-09	0.00E+00	1.11E-07	3.16E-08	8.99E-10	0.00E+00	3.25E-08	1.20E-08	2.90E-10	0.00E+00	1.23E-08
2486	458094.7	3769526	1.06E-07	5.02E-09	0.00E+00	1.11E-07	1.06E-07	5.02E-09	0.00E+00	1.11E-07	3.18E-08	9.03E-10	0.00E+00	3.27E-08	1.20E-08	2.92E-10	0.00E+00	1.23E-08
2487	458214.7	3769526	1.21E-07	5.73E-09	0.00E+00	1.27E-07	1.21E-07	5.73E-09	0.00E+00	1.27E-07	3.63E-08	1.03E-09	0.00E+00	3.73E-08	1.37E-08	3.33E-10	0.00E+00	1.41E-08
2488	458224.7	3769526	1.22E-07	5.79E-09	0.00E+00	1.28E-07	1.22E-07	5.79E-09	0.00E+00	1.28E-07	3.67E-08	1.04E-09	0.00E+00	3.77E-08	1.39E-08	3.36E-10	0.00E+00	1.42E-08
2489	458234.7	3769526	1.24E-07	5.85E-09	0.00E+00	1.29E-07	1.24E-07	5.85E-09	0.00E+00	1.29E-07	3.70E-08	1.05E-09	0.00E+00	3.81E-08	1.40E-08	3.40E-10	0.00E+00	1.44E-08
2490	458034.7	3769536	9.96E-08	4.71E-09	0.00E+00	1.04E-07	9.96E-08	4.71E-09	0.00E+00	1.04E-07	2.98E-08	8.48E-10	0.00E+00	3.07E-08	1.13E-08	2.74E-10	0.00E+00	1.16E-08
2491	458044.7	3769536	1E-07	4.76E-09	0.00E+00	1.05E-07	1.00E-07	4.76E-09	0.00E+00	1.05E-07	3.01E-08	8.55E-10	0.00E+00	3.10E-08	1.14E-08	2.76E-10	0.00E+00	1.17E-08
2492	458054.7	3769536	1.01E-07	4.8E-09	0.00E+00	1.06E-07	1.01E-07	4.80E-09	0.00E+00	1.06E-07	3.04E-08	8.63E-10	0.00E+00	3.12E-08	1.15E-08	2.79E-10	0.00E+00	1.18E-08
2493	458064.7	3769536	1.02E-07	4.84E-09	0.00E+00	1.07E-07	1.02E-07	4.84E-09	0.00E+00	1.07E-07	3.06E-08	8.71E-10	0.00E+00	3.15E-08	1.16E-08	2.81E-10	0.00E+00	1.19E-08
2494	458074.7	3769536	1.03E-07	4.88E-09	0.00E+00	1.08E-07	1.03E-07	4.88E-09	0.00E+00	1.08E-07	3.09E-08	8.78E-10	0.00E+00	3.18E-08	1.17E-08	2.84E-10	0.00E+00	1.20E-08
2495	458084.7	3769536	1.04E-07	4.92E-09	0.00E+00	1.09E-07	1.04E-07	4.92E-09	0.00E+00	1.09E-07	3.11E-08	8.84E-10	0.00E+00	3.20E-08	1.18E-08	2.85E-10	0.00E+00	1.21E-08
2496	458094.7	3769536	1.04E-07	4.94E-09	0.00E+00	1.09E-07	1.04E-07	4.94E-09	0.00E+00	1.09E-07	3.12E-08	8.88E-10	0.00E+00	3.21E-08	1.18E-08	2.87E-10	0.00E+00	1.21E-08
2497	458234.7	3769536	1.21E-07	5.73E-09	0.00E+00	1.27E-07	1.21E-07	5.73E-09	0.00E+00	1.27E-07	3.62E-08	1.03E-09	0.00E+00	3.72E-08	1.37E-08	3.32E-10	0.00E+00	1.41E-08
2498	458034.7	3769546	9.79E-08	4.63E-09	0.00E+00	1.03E-07	9.79E-08	4.63E-09	0.00E+00	1.03E-07	2.93E-08	8.33E-10	0.00E+00	3.01E-08	1.11E-08	2.69E-10	0.00E+00	1.14E-08
2499	458044.7	3769546	9.87E-08	4.68E-09	0.00E+00	1.03E-07	9.87E-08	4.68E-09	0.00E+00	1.03E-07	2.96E-08	8.41E-10	0.00E+00	3.04E-08	1.12E-08	2.71E-10	0.00E+00	1.15E-08
2500	458054.7	3769546	9.96E-08	4.72E-09	0.00E+00	1.04E-07	9.96E-08	4.72E-09	0.00E+00	1.04E-07	2.98E-08	8.48E-10	0.00E+00	3.07E-08	1.13E-08	2.74E-10	0.00E+00	1.16E-08
2501	458064.7	3769546	1.01E-07	4.76E-09	0.00E+00	1.05E-07	1.01E-07	4.76E-09	0.00E+00	1.05E-07	3.01E-08	8.56E-10	0.00E+00	3.10E-08	1.14E-08	2.76E-10	0.00E+00	1.17E-08
2502	458074.7	3769546	1.02E-07	4.81E-09	0.00E+00	1.06E-07	1.02E-07	4.81E-09	0.00E+00	1.06E-07	3.04E-08	8.64E-10	0.00E+00	3.13E-08	1.15E-08	2.79E-10	0.00E+00	1.18E-08
2503	458084.7	3769546	1.02E-07	4.84E-09	0.00E+00	1.07E-07	1.02E-07	4.84E-09	0.00E+00	1.07E-07	3.06E-08	8.70E-10	0.00E+00	3.15E-08	1.16E-08	2.81E-10	0.00E+00	1.19E-08
2504	458094.7	3769546	1.03E-07	4.85E-09	0.00E+00	1.07E-07	1.03E-07	4.85E-09	0.00E+00	1.07E-07	3.07E-08	8.73E-10	0.00E+00	3.16E-08	1.16E-08	2.82E-10	0.00E+00	1.19E-08
2505	458234.7	3769546	1.18E-07	5.6E-09	0.00E+00	1.24E-07	1.18E-07	5.60E-09	0.00E+00	1.24E-07	3.54E-08	1.01E-09	0.00E+00	3.64E-08	1.34E-08	3.25E-10	0.00E+00	1.38E-08
2506	458034.7	3769556	9.62E-08	4.56E-09	0.00E+00	1.01E-07	9.62E-08	4.56E-09	0.00E+00	1.01E-07	2.88E-08	8.19E-10	0.00E+00	2.96E-08	1.09E-08	2.64E-10	0.00E+00	1.12E-08
2507	458044.7	3769556	9.69E-08	4.59E-09	0.00E+00	1.02E-07	9.69E-08	4.59E-09	0.00E+00	1.02E-07	2.90E-08	8.25E-10	0.00E+00	2.99E-08	1.10E-08	2.66E-10	0.00E+00	1.13E-08
2508	458054.7	3769556	9.77E-08	4.63E-09	0.00E+00	1.02E-07	9.77E-08	4.63E-09	0.00E+00	1.02E-07	2.93E-08	8.32E-10	0.00E+00	3.01E-08	1.11E-08	2.69E-10	0.00E+00	1.14E-08
2509	458064.7	3769556	9.85E-08	4.67E-09	0.00E+00	1.03E-07	9.85E-08	4.67E-09	0.00E+00	1.03E-07	2.95E-08	8.39E-10	0.00E+00	3.04E-08	1.12E-08	2.71E-10	0.00E+00	1.15E-08
2510	458074.7	3769556	9.94E-08	4.71E-09	0.00E+00	1.04E-07	9.94E-08	4.71E-09	0.00E+00	1.04E-07	2.98E-08	8.46E-10	0.00E+00	3.06E-08	1.13E-08	2.73E-10	0.00E+00	1.15E-08
2511	458084.7	3769556	1E-07	4.74E-09	0.00E+00	1.05E-07	1.00E-07	4.74E-09	0.00E+00	1.05E-07	3.00E-08	8.52E-10	0.00E+00	3.08E-08	1.14E-08	2.75E-10	0.00E+00	1.16E-08
2512	458094.7	3769556	1.01E-07	4.76E-09	0.00E+00	1.05E-07	1.01E-07	4.76E-09	0.00E+00	1.05E-07	3.01E-08	8.56E-10	0.00E+00	3.10E-08	1.14E-08	2.76E-10	0.00E+00	1.17E-08
2513	458234.7	3769556	1.16E-07	5.48E-09	0.00E+00	1.21E-07	1.16E-07	5.48E-09	0.00E+00	1.21E-07	3.47E-08	9.85E-10	0.00E+00	3.57E-08	1.31E-08	3.18E-10	0.00E+00	1.34E-08
2514	458034.7	3769566	9.46E-08	4.48E-09	0.00E+00	9.91E-08	9.46E-08	4.48E-09	0.00E+00	9.91E-08	2.83E-08	8.05E-10	0.00E+00	2.91E-08	1.07E-08	2.60E-10	0.00E+00	1.10E-08
2515	458044.7	3769566	9.52E-08	4.51E-09	0.00E+00	9.97E-08	9.52E-08	4.51E-09	0.00E+00	9.97E-08	2.85E-08	8.10E-10	0.00E+00	2.93E-08	1.08E-08	2.62E-10	0.00E+00	1.11E-08
2516	458054.7	3769566	9.58E-08	4.54E-09	0.00E+00	1.00E-07	9.58E-08	4.54E-09	0.00E+00	1.00E-07	2.87E-08	8.16E-10	0.00E+00	2.95E-08	1.09E-08	2.63E-10	0.00E+00	1.11E-08
2517	458064.7	3769566	9.66E-08	4.57E-09	0.00E+00	1.01E-07	9.66E-08	4.57E-09	0.00E+00	1.01E-07	2.89E-08	8.22E-10	0.00E+00	2.97E-08	1.10E-08	2.65E-10	0.00E+00	1.12E-08
2518	458074.7	3769566	9.73E-08	4.61E-09	0.00E+00	1.02E-07	9.73E-08	4.61E-09	0.00E+00	1.02E-07	2.91E-08	8.28E-10	0.00E+00	3.00E-08	1.10E-08	2.67E-10	0.00E+00	1.13E-08
2519	458084.7	3769566	9.8E-08	4.64E-09	0.00E+00	1.03E-07	9.80E-08	4.64E-09	0.00E+00	1.03E-07	2.93E-08	8.34E-10	0.00E+00	3.02E-08	1.11E-08	2.69E-10	0.00E+00	1.14E-08
2520	458094.7	3769566	9.86E-08	4.67E-09	0.00E+00	1.03E-07	9.86E-08	4.67E-09	0.00E+00	1.03E-07	2.95E-08	8.39E-10	0.00E+00	3.04E-08	1.12E-08	2.71E-10	0.00E+00	1.15E-08
2521	458234.7	3769566	1.13E-07	5.36E-09	0.00E+00	1.19E-07	1.13E-07	5.36E-09	0.00E+00	1.19E-07	3.39E-08	9.64E-10	0.00E+00	3.49E-08	1.28E-08	3.11E-10	0.00E+00	1.32E-08
2522	458034.7	3769576	9.3E-08	4.4E-09	0.00E+00	9.74E-08	9.30E-08	4.40E-09	0.00E+00	9.74E-08	2.79E-08	7.92E-10	0.00E+00	2.87E-08	1.06E-08	2.56E-10	0.00E+00	1.08E-08
2523	458044.7	3769576	9.35E-08	4.43E-09	0.00E+00	9.79E-08	9.35E-08	4.43E-09	0.00E+00	9.79E-08	2.80E-08	7.96E-10	0.00E+00	2.88E-08	1.06E-08	2.57E-10	0.00E+00	1.09E-08
2524	458054.7	3769576	9.4E-08	4.45E-09	0.00E+00	9.84E-08	9.40E-08	4.45E-09	0.00E+00	9.84E-08	2.82E-08	8.00E-10	0.00E+00	2.90E-08	1.07E-08	2.58E-10	0.00E+00	1.09E-08
2525	458064.7	3769576	9.46E-08	4.48E-09	0.00E+00	9.91E-08	9.46E-08	4.48E-09	0.00E+00	9.91E-08	2.83E-08	8.06E-10	0.00E+00	2.91E-08	1.07E-08	2.60E-10	0.00E+00	1.10E-08
2526	458074.7	3769576	9.53E-08	4.51E-09	0.00E+00	9.98E-08	9.53E-08	4.51E-09	0.00E+00	9.98E-08	2.85E-08	8.11E-10	0.00E+00	2.94E-08	1.08E-08	2.62E-10	0.00E+00	1.11E-08
2527	458084.7	3769576	9.6E-08	4.54E-09	0.00E+00	1.01E-07	9.60E-08	4.54E-09	0.00E+00	1.01E-07	2.87E-08	8.17E-10	0.00E+00	2.96E-08	1.09E-08	2.64E-10	0.00E+00	1.12E-08

2528	458094.7	3769576	9.66E-08	4.58E-09	0.00E+00	1.01E-07		9.66E-08	4.58E-09	0.00E+00	1.01E-07		2.89E-08	8.23E-10	0.00E+00	2.98E-08		1.10E-08	2.66E-10	0.00E+00	1.12E-08
2529	458234.7	3769576	1.11E-07	5.24E-09	0.00E+00	1.16E-07		1.11E-07	5.24E-09	0.00E+00	1.16E-07		3.32E-08	9.43E-10	0.00E+00	3.41E-08		1.26E-08	3.04E-10	0.00E+00	1.29E-08
2530	458234.7	3769586	1.08E-07	5.14E-09	0.00E+00	1.14E-07		1.08E-07	5.14E-09	0.00E+00	1.14E-07		3.25E-08	9.23E-10	0.00E+00	3.34E-08		1.23E-08	2.98E-10	0.00E+00	1.26E-08

			UnMitigated			T2			T2L3			T4		
			2.64E-03	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.91E-04	2.43E-05	0.00E+00	3.00E-04	7.86E-06	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	457789.6	3768636	1.27E-03	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
2	457781	3768639	1.22E-03	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
3	457772.3	3768643	1.17E-03	6.00E-05	0.00E+00	1.17E-03	6.00E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
4	457763.6	3768647	1.13E-03	5.78E-05	0.00E+00	1.13E-03	5.78E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
5	457754.9	3768650	1.09E-03	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
6	457746.2	3768654	1.04E-03	5.35E-05	0.00E+00	1.04E-03	5.35E-05	0.00E+00	3.13E-04	9.62E-06	0.00E+00	1.18E-04	3.11E-06	0.00E+00
7	457737.5	3768657	1.00E-03	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.24E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
8	457728.8	3768661	9.63E-04	4.94E-05	0.00E+00	9.63E-04	4.94E-05	0.00E+00	2.89E-04	8.88E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
9	457886.5	3768635	1.55E-03	7.93E-05	0.00E+00	1.55E-03	7.93E-05	0.00E+00	4.63E-04	1.43E-05	0.00E+00	1.75E-04	4.60E-06	0.00E+00
10	457877.8	3768639	1.50E-03	7.67E-05	0.00E+00	1.50E-03	7.67E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
11	457869	3768643	1.45E-03	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
12	457860.3	3768646	1.40E-03	7.17E-05	0.00E+00	1.40E-03	7.17E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.16E-06	0.00E+00
13	457851.5	3768650	1.35E-03	6.91E-05	0.00E+00	1.35E-03	6.91E-05	0.00E+00	4.04E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
14	457842.8	3768653	1.30E-03	6.67E-05	0.00E+00	1.30E-03	6.67E-05	0.00E+00	3.90E-04	1.20E-05	0.00E+00	1.48E-04	3.87E-06	0.00E+00
15	457834	3768657	1.25E-03	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
16	457825.3	3768661	1.21E-03	6.20E-05	0.00E+00	1.21E-03	6.20E-05	0.00E+00	3.62E-04	1.11E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
17	457816.5	3768664	1.16E-03	5.97E-05	0.00E+00	1.16E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
18	457807.8	3768668	1.12E-03	5.74E-05	0.00E+00	1.12E-03	5.74E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
19	457799	3768672	1.08E-03	5.53E-05	0.00E+00	1.08E-03	5.53E-05	0.00E+00	3.23E-04	9.94E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
20	457790.3	3768675	1.04E-03	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.56E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
21	457781.5	3768679	9.98E-04	5.11E-05	0.00E+00	9.98E-04	5.11E-05	0.00E+00	2.99E-04	9.20E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
22	457772.8	3768683	9.59E-04	4.92E-05	0.00E+00	9.59E-04	4.92E-05	0.00E+00	2.87E-04	8.84E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
23	457764	3768686	9.22E-04	4.73E-05	0.00E+00	9.22E-04	4.73E-05	0.00E+00	2.76E-04	8.50E-06	0.00E+00	1.05E-04	2.74E-06	0.00E+00
24	457755.3	3768690	8.87E-04	4.55E-05	0.00E+00	8.87E-04	4.55E-05	0.00E+00	2.66E-04	8.18E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
25	457746.5	3768694	8.54E-04	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.87E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
26	457737.8	3768697	8.25E-04	4.23E-05	0.00E+00	8.25E-04	4.23E-05	0.00E+00	2.47E-04	7.60E-06	0.00E+00	9.36E-05	2.45E-06	0.00E+00
27	457729	3768701	7.97E-04	4.09E-05	0.00E+00	7.97E-04	4.09E-05	0.00E+00	2.39E-04	7.35E-06	0.00E+00	9.04E-05	2.37E-06	0.00E+00
28	457984.5	3768634	1.75E-03	8.98E-05	0.00E+00	1.75E-03	8.98E-05	0.00E+00	5.25E-04	1.61E-05	0.00E+00	1.99E-04	5.21E-06	0.00E+00
29	457975.6	3768638	1.71E-03	8.77E-05	0.00E+00	1.71E-03	8.77E-05	0.00E+00	5.12E-04	1.58E-05	0.00E+00	1.94E-04	5.09E-06	0.00E+00
30	457966.8	3768642	1.67E-03	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	5.00E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
31	457958	3768645	1.63E-03	8.33E-05	0.00E+00	1.63E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.84E-06	0.00E+00
32	457949.2	3768649	1.58E-03	8.11E-05	0.00E+00	1.58E-03	8.11E-05	0.00E+00	4.74E-04	1.46E-05	0.00E+00	1.79E-04	4.71E-06	0.00E+00
33	457940.4	3768653	1.54E-03	7.88E-05	0.00E+00	1.54E-03	7.88E-05	0.00E+00	4.61E-04	1.42E-05	0.00E+00	1.74E-04	4.58E-06	0.00E+00
34	457931.6	3768656	1.49E-03	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00
35	457922.8	3768660	1.45E-03	7.43E-05	0.00E+00	1.45E-03	7.43E-05	0.00E+00	4.34E-04	1.34E-05	0.00E+00	1.65E-04	4.32E-06	0.00E+00
36	457914	3768664	1.41E-03	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.21E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
37	457905.2	3768667	1.36E-03	6.99E-05	0.00E+00	1.36E-03	6.99E-05	0.00E+00	4.08E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
38	457896.4	3768671	1.32E-03	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.22E-05	0.00E+00	1.50E-04	3.92E-06	0.00E+00
39	457887.6	3768675	1.27E-03	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
40	457878.8	3768678	1.23E-03	6.31E-05	0.00E+00	1.23E-03	6.31E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.40E-04	3.66E-06	0.00E+00
41	457870	3768682	1.19E-03	6.09E-05	0.00E+00	1.19E-03	6.09E-05	0.00E+00	3.56E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00
42	457861.2	3768686	1.15E-03	5.89E-05	0.00E+00	1.15E-03	5.89E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.42E-06	0.00E+00
43	457852.4	3768689	1.11E-03	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
44	457843.6	3768693	1.07E-03	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.87E-06	0.00E+00	1.21E-04	3.19E-06	0.00E+00
45	457834.8	3768697	1.03E-03	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
46	457826	3768700	9.96E-04	5.11E-05	0.00E+00	9.96E-04	5.11E-05	0.00E+00	2.98E-04	9.18E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
47	457817.2	3768704	9.62E-04	4.93E-05	0.00E+00	9.62E-04	4.93E-05	0.00E+00	2.88E-04	8.87E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
48	457808.4	3768708	9.29E-04	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
49	457799.6	3768712	8.94E-04	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
50	457790.8	3768715	8.61E-04	4.41E-05	0.00E+00	8.61E-04	4.41E-05	0.00E+00	2.58E-04	7.93E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
51	457782	3768719	8.30E-04	4.25E-05	0.00E+00	8.30E-04	4.25E-05	0.00E+00	2.49E-04	7.65E-06	0.00E+00	9.41E-05	2.47E-06	0.00E+00
52	457773.2	3768723	8.00E-04	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.39E-04	7.37E-06	0.00E+00	9.07E-05	2.38E-06	0.00E+00
53	457764.4	3768726	7.70E-04	3.95E-05	0.00E+00	7.70E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
54	457755.6	3768730	7.42E-04	3.80E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
55	457746.8	3768734	7.15E-04	3.67E-05	0.00E+00	7.15E-04	3.67E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
56	457738	3768737	6.89E-04	3.53E-05	0.00E+00	6.89E-04	3.53E-05	0.00E+00	2.06E-04	6.35E-06	0.00E+00	7.82E-05	2.05E-06	0.00E+00
57	457729.2	3768741	6.64E-04	3.41E-05	0.00E+00	6.64E-04	3.41E-05	0.00E+00	1.99E-04	6.13E-06	0.00E+00	7.54E-05	1.98E-06	0.00E+00
58	458172.7	3768448	2.64E-03	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.91E-04	2.43E-05	0.00E+00	3.00E-04	7.86E-06	0.00E+00
59	458169.2	3768457	2.63E-03	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.88E-04	2.42E-05	0.00E+00	2.98E-04	7.83E-06	0.00E+00
60	458165.6	3768466	2.62E-03	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.84E-04	2.41E-05	0.00E+00	2.97E-04	7.79E-06	0.00E+00
61	458162	3768474	2.60E-03	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.79E-04	2.40E-05	0.00E+00	2.95E-04	7.74E-06	0.00E+00
62	458158.4	3768483	2.58E-03	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.72E-04	2.38E-05	0.00E+00	2.93E-04	7.67E-06	0.00E+00
63	458154.8	3768492	2.55E-03	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.65E-04	2.35E-05	0.00E+00	2.90E-04	7.60E-06	0.00E+00
64	458151.2	3768501	2.53E-03	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.57E-04	2.33E-05	0.00E+00	2.87E-04	7.52E-06	0.00E+00
65	458147.6	3768510	2.50E-03	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.47E-04	2.30E-05	0.00E+00	2.83E-04	7.43E-06	0.00E+00
66	458144	3768519	2.46E-03	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.33E-06	0.00E+00
67	458140.4	3768528	2.42E-03	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.26E-04	2.24E-05	0.00E+00	2.75E-04	7.22E-06	0.00E+00
68	458136.8	3768537	2.38E-03	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.14E-04	2.20E-05	0.00E+00	2.71E-04	7.10E-06	0.00E+00
69	458074.4	3768637	1.82E-03	9.32E-05	0.00E+00	1.82E-03	9.32E-05	0.00E+00	5.44E-04	1.68E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
70	458065.5	3768640	1.79E-03	9.18E-05	0.00E+00	1.79E-03	9.18E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
71	458056.7	3768644	1.76E-03	9.04E-05	0.00E+00	1.76E-03	9.04E-05	0.00E+00	5.28E-04	1.62E-05	0.00E+00	2.00E-04	5.24E-06	0.00E+00
72	458047.8	3768648	1.73E-03	8.88E-05	0.00E+00	1.73E-03	8.88E-05	0.00E+00	5.19E-04	1.60E-05	0.00E+00	1.97E-04	5.16E-06	0.00E+00
73	458039	3768651	1.70E-03	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
74	458030.1	3768655	1.67E-03	8.54E-05	0.00E+00	1.67E-03	8.54E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
75	458021.3	3768659	1.63E-03	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.88E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
76	458012.5	3768663	1.59E-03	8.18E-05	0.00E+00	1.59E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
77	458003.6	3768666	1.56E-03	7.99E-05	0.00E+00	1.56E-03	7.99E-05	0.00E+00	4.67E-04	1.44E-05	0.00E+00	1.77E-04	4.64E-06	0.00E+00
78	457994.8	3768670	1.52E-03	7.81E-05	0.00E+00	1.52E-03	7.81E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
79	457985.9	3768674	1.49E-03	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.42E-06	0.00E+00
80	457977.1	3768677	1.45E-03	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.34E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
81	457968.2	3768681	1.41E-03	7.22E-05	0.00E+00	1.41E-03	7.22E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
82	457959.4	3768685	1.37E-03	7.01E-05	0.00E+00	1.37E-03	7.01E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
83	457950.5	3768688	1.33E-03	6.81E-05	0.00E+00	1.33E-03	6.81E-05	0.00E+00	3.98E-04	1.22E-05	0.00E+00	1.51E-04	3.95E-06	0.00E+00
84	457941.7	3768692	1.29E-03	6.61E-05	0.00E+00	1.29E-03	6.61E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
85	457932.8	3768696	1.25E-03	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
86	457924	3768700	1.21E-03	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
87	457915.1	3768703	1.18E-03	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
88	457906.3	3768707	1.14E-03	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00

89	457897.4	3768711	1.10E-03	5.64E-05	0.00E+00	1.10E-03	5.64E-05	0.00E+00	3.30E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
90	457888.6	3768714	1.06E-03	5.45E-05	0.00E+00	1.06E-03	5.45E-05	0.00E+00	3.18E-04	9.80E-06	0.00E+00	1.21E-04	3.16E-06	0.00E+00
91	457879.7	3768718	1.03E-03	5.27E-05	0.00E+00	1.03E-03	5.27E-05	0.00E+00	3.08E-04	9.47E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
92	457870.9	3768722	9.92E-04	5.09E-05	0.00E+00	9.92E-04	5.09E-05	0.00E+00	2.97E-04	9.14E-06	0.00E+00	1.13E-04	2.95E-06	0.00E+00
93	457862.1	3768725	9.57E-04	4.91E-05	0.00E+00	9.57E-04	4.91E-05	0.00E+00	2.87E-04	8.83E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
94	457853.2	3768729	9.24E-04	4.74E-05	0.00E+00	9.24E-04	4.74E-05	0.00E+00	2.77E-04	8.51E-06	0.00E+00	1.05E-04	2.75E-06	0.00E+00
95	457844.4	3768733	8.91E-04	4.57E-05	0.00E+00	8.91E-04	4.57E-05	0.00E+00	2.67E-04	8.21E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
96	457835.5	3768737	8.59E-04	4.41E-05	0.00E+00	8.59E-04	4.41E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.75E-05	2.56E-06	0.00E+00
97	457826.7	3768740	8.29E-04	4.25E-05	0.00E+00	8.29E-04	4.25E-05	0.00E+00	2.48E-04	7.64E-06	0.00E+00	9.40E-05	2.47E-06	0.00E+00
98	457817.8	3768744	7.99E-04	4.10E-05	0.00E+00	7.99E-04	4.10E-05	0.00E+00	2.39E-04	7.37E-06	0.00E+00	9.07E-05	2.38E-06	0.00E+00
99	457809	3768748	7.71E-04	3.95E-05	0.00E+00	7.71E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
100	457800.1	3768751	7.44E-04	3.82E-05	0.00E+00	7.44E-04	3.82E-05	0.00E+00	2.23E-04	6.86E-06	0.00E+00	8.44E-05	2.21E-06	0.00E+00
101	457791.3	3768755	7.18E-04	3.68E-05	0.00E+00	7.18E-04	3.68E-05	0.00E+00	2.15E-04	6.62E-06	0.00E+00	8.15E-05	2.14E-06	0.00E+00
102	457782.4	3768759	6.93E-04	3.55E-05	0.00E+00	6.93E-04	3.55E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
103	457773.6	3768762	6.69E-04	3.43E-05	0.00E+00	6.69E-04	3.43E-05	0.00E+00	2.00E-04	6.17E-06	0.00E+00	7.59E-05	1.99E-06	0.00E+00
104	457764.7	3768766	6.47E-04	3.32E-05	0.00E+00	6.47E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.34E-05	1.93E-06	0.00E+00
105	457755.9	3768770	6.27E-04	3.21E-05	0.00E+00	6.27E-04	3.21E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.11E-05	1.86E-06	0.00E+00
106	457747	3768774	6.06E-04	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.81E-04	5.58E-06	0.00E+00	6.87E-05	1.80E-06	0.00E+00
107	457738.2	3768777	5.85E-04	3.00E-05	0.00E+00	5.85E-04	3.00E-05	0.00E+00	1.75E-04	5.39E-06	0.00E+00	6.64E-05	1.74E-06	0.00E+00
108	457729.3	3768781	5.66E-04	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.70E-04	5.22E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
109	458212.3	3768448	2.44E-03	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.30E-04	2.25E-05	0.00E+00	2.76E-04	7.25E-06	0.00E+00
110	458208.7	3768457	2.43E-03	1.25E-04	0.00E+00	2.43E-03	1.25E-04	0.00E+00	7.29E-04	2.24E-05	0.00E+00	2.76E-04	7.24E-06	0.00E+00
111	458205.1	3768466	2.43E-03	1.24E-04	0.00E+00	2.43E-03	1.24E-04	0.00E+00	7.27E-04	2.24E-05	0.00E+00	2.76E-04	7.23E-06	0.00E+00
112	458201.5	3768475	2.42E-03	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.25E-04	2.23E-05	0.00E+00	2.75E-04	7.20E-06	0.00E+00
113	458197.9	3768484	2.41E-03	1.23E-04	0.00E+00	2.41E-03	1.23E-04	0.00E+00	7.21E-04	2.22E-05	0.00E+00	2.73E-04	7.17E-06	0.00E+00
114	458194.3	3768493	2.39E-03	1.23E-04	0.00E+00	2.39E-03	1.23E-04	0.00E+00	7.17E-04	2.21E-05	0.00E+00	2.72E-04	7.12E-06	0.00E+00
115	458190.7	3768502	2.38E-03	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.07E-06	0.00E+00
116	458187.1	3768511	2.35E-03	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.05E-04	2.17E-05	0.00E+00	2.67E-04	7.00E-06	0.00E+00
117	458183.5	3768520	2.33E-03	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.93E-06	0.00E+00
118	458179.9	3768529	2.30E-03	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.89E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
119	458176.3	3768538	2.27E-03	1.16E-04	0.00E+00	2.27E-03	1.16E-04	0.00E+00	6.80E-04	2.09E-05	0.00E+00	2.58E-04	6.76E-06	0.00E+00
120	458172.7	3768547	2.24E-03	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.71E-04	2.06E-05	0.00E+00	2.54E-04	6.66E-06	0.00E+00
121	458169.1	3768555	2.21E-03	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00
122	458165.4	3768564	2.17E-03	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.50E-04	2.00E-05	0.00E+00	2.46E-04	6.45E-06	0.00E+00
123	458161.8	3768573	2.13E-03	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.38E-04	1.96E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
124	458158.2	3768582	2.09E-03	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.26E-04	1.93E-05	0.00E+00	2.37E-04	6.22E-06	0.00E+00
125	458154.6	3768591	2.05E-03	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.13E-04	1.89E-05	0.00E+00	2.32E-04	6.09E-06	0.00E+00
126	458151	3768600	2.00E-03	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	6.00E-04	1.85E-05	0.00E+00	2.27E-04	5.97E-06	0.00E+00
127	458147.4	3768609	1.96E-03	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
128	458143.8	3768618	1.91E-03	9.81E-05	0.00E+00	1.91E-03	9.81E-05	0.00E+00	5.73E-04	1.76E-05	0.00E+00	2.17E-04	5.70E-06	0.00E+00
129	458140.2	3768627	1.87E-03	9.57E-05	0.00E+00	1.87E-03	9.57E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
130	458093.8	3768669	1.63E-03	8.37E-05	0.00E+00	1.63E-03	8.37E-05	0.00E+00	4.89E-04	1.51E-05	0.00E+00	1.85E-04	4.86E-06	0.00E+00
131	458084.9	3768672	1.61E-03	8.24E-05	0.00E+00	1.61E-03	8.24E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
132	458076.1	3768676	1.58E-03	8.10E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
133	458067.2	3768680	1.55E-03	7.95E-05	0.00E+00	1.55E-03	7.95E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
134	458058.3	3768683	1.52E-03	7.80E-05	0.00E+00	1.52E-03	7.80E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
135	458049.4	3768687	1.49E-03	7.64E-05	0.00E+00	1.49E-03	7.64E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
136	458040.5	3768691	1.46E-03	7.48E-05	0.00E+00	1.46E-03	7.48E-05	0.00E+00	4.37E-04	1.34E-05	0.00E+00	1.65E-04	4.34E-06	0.00E+00
137	458031.6	3768695	1.43E-03	7.31E-05	0.00E+00	1.43E-03	7.31E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
138	458022.7	3768698	1.39E-03	7.14E-05	0.00E+00	1.39E-03	7.14E-05	0.00E+00	4.17E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
139	458013.9	3768702	1.36E-03	6.97E-05	0.00E+00	1.36E-03	6.97E-05	0.00E+00	4.07E-04	1.25E-05	0.00E+00	1.54E-04	4.04E-06	0.00E+00
140	458005	3768706	1.32E-03	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
141	457996.1	3768709	1.29E-03	6.61E-05	0.00E+00	1.29E-03	6.61E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
142	457987.2	3768713	1.25E-03	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
143	457978.3	3768717	1.22E-03	6.25E-05	0.00E+00	1.22E-03	6.25E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.63E-06	0.00E+00
144	457969.4	3768721	1.19E-03	6.08E-05	0.00E+00	1.19E-03	6.08E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.34E-04	3.53E-06	0.00E+00
145	457960.5	3768724	1.15E-03	5.90E-05	0.00E+00	1.15E-03	5.90E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.42E-06	0.00E+00
146	457951.6	3768728	1.12E-03	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
147	457942.8	3768732	1.08E-03	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.98E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
148	457933.9	3768735	1.05E-03	5.37E-05	0.00E+00	1.05E-03	5.37E-05	0.00E+00	3.14E-04	9.66E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
149	457925	3768739	1.02E-03	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.04E-04	9.36E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
150	457916.1	3768743	9.84E-04	5.05E-05	0.00E+00	9.84E-04	5.05E-05	0.00E+00	2.95E-04	9.07E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
151	457907.2	3768747	9.53E-04	4.89E-05	0.00E+00	9.53E-04	4.89E-05	0.00E+00	2.86E-04	8.79E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
152	457898.3	3768750	9.22E-04	4.73E-05	0.00E+00	9.22E-04	4.73E-05	0.00E+00	2.76E-04	8.50E-06	0.00E+00	1.05E-04	2.74E-06	0.00E+00
153	457889.4	3768754	8.92E-04	4.57E-05	0.00E+00	8.92E-04	4.57E-05	0.00E+00	2.67E-04	8.22E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
154	457880.6	3768758	8.63E-04	4.42E-05	0.00E+00	8.63E-04	4.42E-05	0.00E+00	2.58E-04	7.95E-06	0.00E+00	9.79E-05	2.57E-06	0.00E+00
155	457871.7	3768761	8.35E-04	4.28E-05	0.00E+00	8.35E-04	4.28E-05	0.00E+00	2.50E-04	7.70E-06	0.00E+00	9.47E-05	2.48E-06	0.00E+00
156	457862.8	3768765	8.07E-04	4.14E-05	0.00E+00	8.07E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.15E-05	2.40E-06	0.00E+00
157	457853.9	3768769	7.78E-04	3.99E-05	0.00E+00	7.78E-04	3.99E-05	0.00E+00	2.33E-04	7.18E-06	0.00E+00	8.83E-05	2.32E-06	0.00E+00
158	457845	3768773	7.50E-04	3.85E-05	0.00E+00	7.50E-04	3.85E-05	0.00E+00	2.25E-04	6.92E-06	0.00E+00	8.51E-05	2.23E-06	0.00E+00
159	457836.1	3768776	7.24E-04	3.71E-05	0.00E+00	7.24E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.21E-05	2.15E-06	0.00E+00
160	457827.2	3768780	6.99E-04	3.58E-05	0.00E+00	6.99E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.93E-05	2.08E-06	0.00E+00
161	457818.3	3768784	6.76E-04	3.46E-05	0.00E+00	6.76E-04	3.46E-05	0.00E+00	2.02E-04	6.23E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
162	457809.5	3768787	6.54E-04	3.35E-05	0.00E+00	6.54E-04	3.35E-05	0.00E+00	1.96E-04	6.03E-06	0.00E+00	7.42E-05	1.95E-06	0.00E+00
163	457800.6	3768791	6.31E-04	3.24E-05	0.00E+00	6.31E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.16E-05	1.88E-06	0.00E+00
164	457791.7	3768795	6.10E-04	3.13E-05	0.00E+00	6.10E-04	3.13E-05	0.00E+00	1.83E-04	5.62E-06	0.00E+00	6.92E-05	1.82E-06	0.00E+00
165	457782.8	3768799	5.90E-04	3.02E-05	0.00E+00	5.90E-04	3.02E-05	0.00E+00	1.77E-04	5.43E-06	0.00E+00	6.69E-05	1.75E-06	0.00E+00
166	457773.9	3768802	5.70E-04	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
167	457765	3768806	5.51E-04	2.83E-05	0.00E+00	5.51E-04	2.83E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
168	457756.1	3768810	5.33E-04	2.73E-05	0.00E+00	5.33E-04	2.73E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.05E-05	1.59E-06	0.00E+00
169	457747.3	3768813	5.17E-04	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
170	457738.4	3768817	5.01E-04	2.57E-05	0.00E+00	5.01E-04	2.57E-05	0.00E+00	1.50E-04	4.62E-06	0.00E+00	5.68E-05	1.49E-06	0.00E+00
171	457729.5	3768821	4.85E-04	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.51E-05	1.44E-06	0.00E+00
172	458250.2	3768453	2.25E-03	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.74E-04	2.07E-05	0.00E+00	2.55E-04	6.70E-06	0.00E+00
173	458246.6	3768462	2.25E-03	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.70E-06	0.00E+00
174	458243.1	3768471	2.25E-03	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.74E-04	2.08E-05	0.00E+00	2.55E-04	6.70E-06	0.00E+00
175	458239.5	3768480	2.25E-03	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.73E-04	2.07E-05	0.00E+00	2.55E-04	6.69E-06	0.00E+00
176	458236	3768488	2.24E-03	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.71E-04	2.07E-05	0.00E+00	2.54E-04	6.67E-06	0.00E+00
177	458232.4	3768497	2.23E-03	1.14E-04	0.00E+00	2.23E-03	1.14E-04	0.00E+00	6.68E-04	2.06E-05	0.00E+00	2.53E-04	6.64E-06	0.00E+00
178	458228.9	3768506	2.22E-03	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.65E-04	2.05E-05	0.00E+00	2.52E-04	6.61E-06	0.00E+00
179	458225.3	3768515	2.21E-03	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00

180	458221.8	3768524	2.19E-03	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.55E-04	2.02E-05	0.00E+00	2.48E-04	6.51E-06	0.00E+00
181	458218.2	3768532	2.17E-03	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.50E-04	2.00E-05	0.00E+00	2.46E-04	6.45E-06	0.00E+00
182	458214.7	3768541	2.15E-03	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.43E-04	1.98E-05	0.00E+00	2.44E-04	6.39E-06	0.00E+00
183	458211.1	3768550	2.12E-03	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
184	458207.6	3768559	2.10E-03	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
185	458204	3768567	2.07E-03	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
186	458200.5	3768576	2.04E-03	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.31E-04	6.07E-06	0.00E+00
187	458196.9	3768585	2.01E-03	1.03E-04	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.01E-04	1.85E-05	0.00E+00	2.28E-04	5.98E-06	0.00E+00
188	458193.3	3768594	1.97E-03	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.88E-06	0.00E+00
189	458189.8	3768603	1.94E-03	9.94E-05	0.00E+00	1.94E-03	9.94E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
190	458186.2	3768611	1.90E-03	9.76E-05	0.00E+00	1.90E-03	9.76E-05	0.00E+00	5.70E-04	1.75E-05	0.00E+00	2.16E-04	5.66E-06	0.00E+00
191	458182.7	3768620	1.87E-03	9.57E-05	0.00E+00	1.87E-03	9.57E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.55E-06	0.00E+00
192	458179.1	3768629	1.83E-03	9.37E-05	0.00E+00	1.83E-03	9.37E-05	0.00E+00	5.47E-04	1.68E-05	0.00E+00	2.07E-04	5.44E-06	0.00E+00
193	458175.6	3768638	1.79E-03	9.17E-05	0.00E+00	1.79E-03	9.17E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
194	458172	3768647	1.75E-03	8.96E-05	0.00E+00	1.75E-03	8.96E-05	0.00E+00	5.24E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
195	458168.5	3768655	1.71E-03	8.75E-05	0.00E+00	1.71E-03	8.75E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.94E-04	5.08E-06	0.00E+00
196	458164.9	3768664	1.67E-03	8.54E-05	0.00E+00	1.67E-03	8.54E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
197	458161.4	3768673	1.62E-03	8.33E-05	0.00E+00	1.62E-03	8.33E-05	0.00E+00	4.86E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
198	458149.1	3768685	1.56E-03	8.01E-05	0.00E+00	1.56E-03	8.01E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
199	458096.6	3768707	1.43E-03	7.32E-05	0.00E+00	1.43E-03	7.32E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
200	458087.8	3768711	1.40E-03	7.19E-05	0.00E+00	1.40E-03	7.19E-05	0.00E+00	4.20E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
201	458079.1	3768715	1.37E-03	7.05E-05	0.00E+00	1.37E-03	7.05E-05	0.00E+00	4.12E-04	1.27E-05	0.00E+00	1.56E-04	4.09E-06	0.00E+00
202	458070.3	3768718	1.35E-03	6.90E-05	0.00E+00	1.35E-03	6.90E-05	0.00E+00	4.03E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
203	458061.6	3768722	1.32E-03	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.22E-05	0.00E+00	1.50E-04	3.92E-06	0.00E+00
204	458052.8	3768726	1.29E-03	6.62E-05	0.00E+00	1.29E-03	6.62E-05	0.00E+00	3.87E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
205	458044.1	3768729	1.26E-03	6.47E-05	0.00E+00	1.26E-03	6.47E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
206	458035.3	3768733	1.23E-03	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
207	458026.6	3768737	1.20E-03	6.16E-05	0.00E+00	1.20E-03	6.16E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.58E-06	0.00E+00
208	458017.8	3768740	1.17E-03	6.00E-05	0.00E+00	1.17E-03	6.00E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
209	458009.1	3768744	1.14E-03	5.84E-05	0.00E+00	1.14E-03	5.84E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
210	458000.3	3768748	1.11E-03	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
211	457991.6	3768751	1.08E-03	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.23E-04	9.95E-06	0.00E+00	1.23E-04	3.21E-06	0.00E+00
212	457982.8	3768755	1.05E-03	5.38E-05	0.00E+00	1.05E-03	5.38E-05	0.00E+00	3.14E-04	9.68E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
213	457974.1	3768759	1.02E-03	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.05E-04	9.40E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
214	457965.3	3768762	9.90E-04	5.07E-05	0.00E+00	9.90E-04	5.07E-05	0.00E+00	2.96E-04	9.12E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
215	457956.6	3768766	9.60E-04	4.92E-05	0.00E+00	9.60E-04	4.92E-05	0.00E+00	2.88E-04	8.85E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
216	457947.8	3768770	9.31E-04	4.77E-05	0.00E+00	9.31E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
217	457939.1	3768773	9.02E-04	4.62E-05	0.00E+00	9.02E-04	4.62E-05	0.00E+00	2.70E-04	8.31E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
218	457930.3	3768777	8.74E-04	4.48E-05	0.00E+00	8.74E-04	4.48E-05	0.00E+00	2.62E-04	8.05E-06	0.00E+00	9.91E-05	2.60E-06	0.00E+00
219	457921.6	3768781	8.46E-04	4.34E-05	0.00E+00	8.46E-04	4.34E-05	0.00E+00	2.53E-04	7.80E-06	0.00E+00	9.60E-05	2.52E-06	0.00E+00
220	457912.8	3768784	8.19E-04	4.20E-05	0.00E+00	8.19E-04	4.20E-05	0.00E+00	2.45E-04	7.55E-06	0.00E+00	9.29E-05	2.44E-06	0.00E+00
221	457904.1	3768788	7.93E-04	4.06E-05	0.00E+00	7.93E-04	4.06E-05	0.00E+00	2.37E-04	7.31E-06	0.00E+00	8.99E-05	2.36E-06	0.00E+00
222	457895.3	3768792	7.67E-04	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
223	457886.6	3768795	7.42E-04	3.80E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
224	457877.8	3768799	7.17E-04	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
225	457869.1	3768803	6.94E-04	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.87E-05	2.06E-06	0.00E+00
226	457860.3	3768806	6.71E-04	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
227	457851.6	3768810	6.49E-04	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.36E-05	1.93E-06	0.00E+00
228	457842.8	3768813	6.28E-04	3.22E-05	0.00E+00	6.28E-04	3.22E-05	0.00E+00	1.88E-04	5.79E-06	0.00E+00	7.12E-05	1.87E-06	0.00E+00
229	457834.1	3768817	6.08E-04	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
230	457825.3	3768821	5.88E-04	3.02E-05	0.00E+00	5.88E-04	3.02E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
231	457816.6	3768824	5.69E-04	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
232	457807.8	3768828	5.51E-04	2.82E-05	0.00E+00	5.51E-04	2.82E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
233	457799.1	3768832	5.35E-04	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
234	457790.3	3768835	5.19E-04	2.66E-05	0.00E+00	5.19E-04	2.66E-05	0.00E+00	1.55E-04	4.79E-06	0.00E+00	5.89E-05	1.54E-06	0.00E+00
235	457781.6	3768839	5.04E-04	2.58E-05	0.00E+00	5.04E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
236	457772.8	3768843	4.88E-04	2.50E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
237	457764.1	3768846	4.74E-04	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
238	457755.3	3768850	4.61E-04	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
239	457746.6	3768854	4.48E-04	2.30E-05	0.00E+00	4.48E-04	2.30E-05	0.00E+00	1.34E-04	4.13E-06	0.00E+00	5.09E-05	1.33E-06	0.00E+00
240	457737.8	3768857	4.35E-04	2.23E-05	0.00E+00	4.35E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
241	457729.1	3768861	4.23E-04	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
242	458289.8	3768454	2.08E-03	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.22E-04	1.92E-05	0.00E+00	2.36E-04	6.18E-06	0.00E+00
243	458286.2	3768463	2.08E-03	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
244	458282.6	3768471	2.09E-03	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.25E-04	1.92E-05	0.00E+00	2.37E-04	6.21E-06	0.00E+00
245	458279	3768480	2.09E-03	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.25E-04	1.93E-05	0.00E+00	2.37E-04	6.21E-06	0.00E+00
246	458275.5	3768489	2.09E-03	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.25E-04	1.92E-05	0.00E+00	2.37E-04	6.21E-06	0.00E+00
247	458271.9	3768498	2.08E-03	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
248	458268.3	3768507	2.08E-03	1.06E-04	0.00E+00	2.08E-03	1.06E-04	0.00E+00	6.22E-04	1.91E-05	0.00E+00	2.36E-04	6.18E-06	0.00E+00
249	458264.8	3768516	2.07E-03	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.19E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
250	458261.2	3768524	2.06E-03	1.05E-04	0.00E+00	2.06E-03	1.05E-04	0.00E+00	6.16E-04	1.90E-05	0.00E+00	2.33E-04	6.12E-06	0.00E+00
251	458257.6	3768533	2.05E-03	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.13E-04	1.89E-05	0.00E+00	2.32E-04	6.09E-06	0.00E+00
252	458254.1	3768542	2.03E-03	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.08E-04	1.87E-05	0.00E+00	2.30E-04	6.04E-06	0.00E+00
253	458250.5	3768551	2.01E-03	1.03E-04	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.03E-04	1.86E-05	0.00E+00	2.28E-04	5.99E-06	0.00E+00
254	458246.9	3768560	1.99E-03	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.94E-06	0.00E+00
255	458243.4	3768569	1.97E-03	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
256	458239.8	3768577	1.95E-03	1.00E-04	0.00E+00	1.95E-03	1.00E-04	0.00E+00	5.84E-04	1.80E-05	0.00E+00	2.21E-04	5.81E-06	0.00E+00
257	458236.2	3768586	1.93E-03	9.87E-05	0.00E+00	1.93E-03	9.87E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.19E-04	5.73E-06	0.00E+00
258	458232.7	3768595	1.90E-03	9.74E-05	0.00E+00	1.90E-03	9.74E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.16E-04	5.65E-06	0.00E+00
259	458229.1	3768604	1.87E-03	9.60E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
260	458225.5	3768613	1.84E-03	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
261	458222	3768622	1.81E-03	9.29E-05	0.00E+00	1.81E-03	9.29E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.39E-06	0.00E+00
262	458218.4	3768630	1.78E-03	9.12E-05	0.00E+00	1.78E-03	9.12E-05	0.00E+00	5.33E-04	1.64E-05	0.00E+00	2.02E-04	5.30E-06	0.00E+00
263	458214.8	3768639	1.75E-03	8.95E-05	0.00E+00	1.75E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
264	458211.3	3768648	1.71E-03	8.78E-05	0.00E+00	1.71E-03	8.78E-05	0.00E+00	5.13E-04	1.58E-05	0.00E+00	1.94E-04	5.10E-06	0.00E+00
265	458207.7	3768657	1.68E-03	8.60E-05	0.00E+00	1.68E-03	8.60E-05	0.00E+00	5.02E-04	1.55E-05	0.00E+00	1.90E-04	4.99E-06	0.00E+00
266	458204.1	3768666	1.64E-03	8.41E-05	0.00E+00	1.64E-03	8.41E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
267	458200.6	3768675	1.60E-03	8.23E-05	0.00E+00	1.60E-03	8.23E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
268	458197	3768683	1.57E-03	8.04E-05	0.00E+00	1.57E-03	8.04E-05	0.00E+00	4.69E-04	1.44E-05	0.00E+00	1.78E-04	4.66E-06	0.00E+00
269	458193.4	3768692	1.53E-03	7.84E-05	0.00E+00	1.53E-03	7.84E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.74E-04	4.55E-06	0.00E+00
270	458189.9	3768701	1.49E-03	7.65E-05	0.00E+00	1.49E-03	7.65E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00

271	458177.5	3768714	1.44E-03	7.37E-05	0.00E+00	1.44E-03	7.37E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.28E-06	0.00E+00
272	458168.7	3768717	1.42E-03	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.22E-06	0.00E+00
273	458159.9	3768721	1.40E-03	7.18E-05	0.00E+00	1.40E-03	7.18E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
274	458151.1	3768725	1.38E-03	7.07E-05	0.00E+00	1.38E-03	7.07E-05	0.00E+00	4.13E-04	1.27E-05	0.00E+00	1.57E-04	4.11E-06	0.00E+00
275	458142.3	3768728	1.36E-03	6.97E-05	0.00E+00	1.36E-03	6.97E-05	0.00E+00	4.07E-04	1.25E-05	0.00E+00	1.54E-04	4.04E-06	0.00E+00
276	458098.4	3768747	1.24E-03	6.36E-05	0.00E+00	1.24E-03	6.36E-05	0.00E+00	3.72E-04	1.14E-05	0.00E+00	1.41E-04	3.69E-06	0.00E+00
277	458089.6	3768750	1.22E-03	6.23E-05	0.00E+00	1.22E-03	6.23E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
278	458080.8	3768754	1.19E-03	6.10E-05	0.00E+00	1.19E-03	6.10E-05	0.00E+00	3.56E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
279	458072	3768758	1.16E-03	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
280	458063.2	3768761	1.14E-03	5.82E-05	0.00E+00	1.14E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
281	458054.4	3768765	1.11E-03	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
282	458045.7	3768769	1.08E-03	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.24E-04	9.97E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
283	458036.9	3768772	1.05E-03	5.40E-05	0.00E+00	1.05E-03	5.40E-05	0.00E+00	3.16E-04	9.71E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
284	458028.1	3768776	1.03E-03	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.46E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
285	458019.3	3768780	9.99E-04	5.12E-05	0.00E+00	9.99E-04	5.12E-05	0.00E+00	2.99E-04	9.21E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
286	458010.5	3768783	9.72E-04	4.98E-05	0.00E+00	9.72E-04	4.98E-05	0.00E+00	2.91E-04	8.96E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
287	458001.7	3768787	9.45E-04	4.85E-05	0.00E+00	9.45E-04	4.85E-05	0.00E+00	2.83E-04	8.72E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
288	457992.9	3768791	9.18E-04	4.71E-05	0.00E+00	9.18E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
289	457984.1	3768794	8.92E-04	4.57E-05	0.00E+00	8.92E-04	4.57E-05	0.00E+00	2.67E-04	8.22E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
290	457975.3	3768798	8.67E-04	4.45E-05	0.00E+00	8.67E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.84E-05	2.58E-06	0.00E+00
291	457966.5	3768802	8.43E-04	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
292	457957.8	3768805	8.18E-04	4.19E-05	0.00E+00	8.18E-04	4.19E-05	0.00E+00	2.45E-04	7.54E-06	0.00E+00	9.28E-05	2.43E-06	0.00E+00
293	457949	3768809	7.92E-04	4.06E-05	0.00E+00	7.92E-04	4.06E-05	0.00E+00	2.37E-04	7.30E-06	0.00E+00	8.98E-05	2.36E-06	0.00E+00
294	457940.2	3768813	7.66E-04	3.93E-05	0.00E+00	7.66E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
295	457931.4	3768816	7.42E-04	3.80E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
296	457922.6	3768820	7.19E-04	3.68E-05	0.00E+00	7.19E-04	3.68E-05	0.00E+00	2.15E-04	6.62E-06	0.00E+00	8.15E-05	2.14E-06	0.00E+00
297	457913.8	3768824	6.97E-04	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.91E-05	2.07E-06	0.00E+00
298	457905	3768827	6.77E-04	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.68E-05	2.01E-06	0.00E+00
299	457896.2	3768831	6.55E-04	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
300	457887.4	3768835	6.34E-04	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.20E-05	1.89E-06	0.00E+00
301	457878.7	3768839	6.15E-04	3.15E-05	0.00E+00	6.15E-04	3.15E-05	0.00E+00	1.84E-04	5.66E-06	0.00E+00	6.97E-05	1.83E-06	0.00E+00
302	457869.9	3768842	5.96E-04	3.05E-05	0.00E+00	5.96E-04	3.05E-05	0.00E+00	1.78E-04	5.49E-06	0.00E+00	6.76E-05	1.77E-06	0.00E+00
303	457861.1	3768846	5.77E-04	2.96E-05	0.00E+00	5.77E-04	2.96E-05	0.00E+00	1.73E-04	5.32E-06	0.00E+00	6.55E-05	1.72E-06	0.00E+00
304	457852.3	3768850	5.59E-04	2.86E-05	0.00E+00	5.59E-04	2.86E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
305	457843.5	3768853	5.41E-04	2.78E-05	0.00E+00	5.41E-04	2.78E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
306	457834.7	3768857	5.24E-04	2.69E-05	0.00E+00	5.24E-04	2.69E-05	0.00E+00	1.57E-04	4.83E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
307	457825.9	3768861	5.08E-04	2.61E-05	0.00E+00	5.08E-04	2.61E-05	0.00E+00	1.52E-04	4.69E-06	0.00E+00	5.77E-05	1.51E-06	0.00E+00
308	457817.1	3768864	4.93E-04	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
309	457808.3	3768868	4.78E-04	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.42E-05	1.42E-06	0.00E+00
310	457799.5	3768872	4.64E-04	2.38E-05	0.00E+00	4.64E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.26E-05	1.38E-06	0.00E+00
311	457790.8	3768875	4.50E-04	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.11E-05	1.34E-06	0.00E+00
312	457782	3768879	4.37E-04	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
313	457773.2	3768883	4.25E-04	2.18E-05	0.00E+00	4.25E-04	2.18E-05	0.00E+00	1.27E-04	3.92E-06	0.00E+00	4.82E-05	1.26E-06	0.00E+00
314	457764.4	3768886	4.13E-04	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
315	457755.6	3768890	4.02E-04	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
316	457746.8	3768894	3.91E-04	2.01E-05	0.00E+00	3.91E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
317	457738	3768897	3.81E-04	1.96E-05	0.00E+00	3.81E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.13E-06	0.00E+00
318	457729.2	3768901	3.72E-04	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
319	458329.4	3768454	1.92E-03	9.84E-05	0.00E+00	1.92E-03	9.84E-05	0.00E+00	5.75E-04	1.77E-05	0.00E+00	2.18E-04	5.71E-06	0.00E+00
320	458325.8	3768463	1.93E-03	9.89E-05	0.00E+00	1.93E-03	9.89E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.74E-06	0.00E+00
321	458322.2	3768472	1.94E-03	9.92E-05	0.00E+00	1.94E-03	9.92E-05	0.00E+00	5.80E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
322	458318.6	3768481	1.94E-03	9.94E-05	0.00E+00	1.94E-03	9.94E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
323	458315	3768490	1.94E-03	9.96E-05	0.00E+00	1.94E-03	9.96E-05	0.00E+00	5.82E-04	1.79E-05	0.00E+00	2.20E-04	5.78E-06	0.00E+00
324	458311.5	3768499	1.94E-03	9.96E-05	0.00E+00	1.94E-03	9.96E-05	0.00E+00	5.82E-04	1.79E-05	0.00E+00	2.20E-04	5.78E-06	0.00E+00
325	458307.9	3768507	1.94E-03	9.95E-05	0.00E+00	1.94E-03	9.95E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
326	458304.3	3768516	1.94E-03	9.93E-05	0.00E+00	1.94E-03	9.93E-05	0.00E+00	5.80E-04	1.79E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
327	458300.7	3768525	0.001931	9.9E-05	0.00E+00	1.93E-03	9.90E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.75E-06	0.00E+00
328	458297.1	3768534	0.001924	9.86E-05	0.00E+00	1.92E-03	9.86E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.73E-06	0.00E+00
329	458293.6	3768543	0.001915	9.82E-05	0.00E+00	1.91E-03	9.82E-05	0.00E+00	5.74E-04	1.77E-05	0.00E+00	2.17E-04	5.70E-06	0.00E+00
330	458290	3768552	0.001904	9.76E-05	0.00E+00	1.90E-03	9.76E-05	0.00E+00	5.70E-04	1.75E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
331	458286.4	3768561	0.001891	9.69E-05	0.00E+00	1.89E-03	9.69E-05	0.00E+00	5.66E-04	1.74E-05	0.00E+00	2.14E-04	5.63E-06	0.00E+00
332	458282.8	3768570	0.001875	9.61E-05	0.00E+00	1.88E-03	9.61E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
333	458279.2	3768578	0.001858	9.53E-05	0.00E+00	1.86E-03	9.53E-05	0.00E+00	5.57E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
334	458275.6	3768587	0.00184	9.43E-05	0.00E+00	1.84E-03	9.43E-05	0.00E+00	5.51E-04	1.70E-05	0.00E+00	2.09E-04	5.47E-06	0.00E+00
335	458272.1	3768596	0.00182	9.33E-05	0.00E+00	1.82E-03	9.33E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
336	458268.5	3768605	0.001798	9.22E-05	0.00E+00	1.80E-03	9.22E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.35E-06	0.00E+00
337	458264.9	3768614	0.001774	9.1E-05	0.00E+00	1.77E-03	9.10E-05	0.00E+00	5.31E-04	1.64E-05	0.00E+00	2.01E-04	5.28E-06	0.00E+00
338	458261.3	3768623	0.00175	8.97E-05	0.00E+00	1.75E-03	8.97E-05	0.00E+00	5.24E-04	1.61E-05	0.00E+00	1.99E-04	5.21E-06	0.00E+00
339	458257.7	3768632	0.001724	8.84E-05	0.00E+00	1.72E-03	8.84E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.96E-04	5.13E-06	0.00E+00
340	458254.1	3768640	0.001697	8.7E-05	0.00E+00	1.70E-03	8.70E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.92E-04	5.05E-06	0.00E+00
341	458250.6	3768649	0.001668	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	5.00E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
342	458247	3768658	0.001639	8.4E-05	0.00E+00	1.64E-03	8.40E-05	0.00E+00	4.91E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
343	458243.4	3768667	0.001608	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.82E-04	4.79E-06	0.00E+00
344	458239.8	3768676	0.001577	8.09E-05	0.00E+00	1.58E-03	8.09E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
345	458236.2	3768685	0.001545	7.92E-05	0.00E+00	1.55E-03	7.92E-05	0.00E+00	4.63E-04	1.42E-05	0.00E+00	1.75E-04	4.60E-06	0.00E+00
346	458232.7	3768694	0.001513	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
347	458229.1	3768703	0.00148	7.59E-05	0.00E+00	1.48E-03	7.59E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.40E-06	0.00E+00
348	458225.5	3768711	0.001446	7.41E-05	0.00E+00	1.45E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
349	458221.9	3768720	0.001412	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
350	458218.3	3768729	0.001378	7.06E-05	0.00E+00	1.38E-03	7.06E-05	0.00E+00	4.13E-04	1.27E-05	0.00E+00	1.56E-04	4.10E-06	0.00E+00
351	458205.9	3768742	0.001328	6.81E-05	0.00E+00	1.33E-03	6.81E-05	0.00E+00	3.98E-04	1.22E-05	0.00E+00	1.51E-04	3.95E-06	0.00E+00
352	458197.1	3768745	0.001312	6.72E-05	0.00E+00	1.31E-03	6.72E-05	0.00E+00	3.93E-04	1.21E-05	0.00E+00	1.49E-04	3.90E-06	0.00E+00
353	458188.3	3768749	0.001294	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.87E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
354	458179.4	3768753	0.001275	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.82E-04	1.17E-05	0.00E+00	1.45E-04	3.79E-06	0.00E+00
355	458170.6	3768756	0.001255	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
356	458161.8	3768760	0.001235	6.33E-05	0.00E+00	1.24E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
357	458153	3768764	0.001215	6.23E-05	0.00E+00	1.22E-03	6.23E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
358	458144.1	3768768	0.001195	6.12E-05	0.00E+00	1.19E-03	6.12E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.36E-04	3.55E-06	0.00E+00
359	458100	3768786	0.001078	5.53E-05	0.00E+00	1.08E-03	5.53E-05	0.00E+00	3.23E-04	9.94E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
360	458091.2	3768790	0.001055	5.41E-05	0.00E+00	1.05E-03	5.41E-05	0.00E+00	3.16E-04	9.72E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
361	458082.4	3768793	0.001032	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.51E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00

362	458073.5	3768797	0.001007	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
363	458064.7	3768801	0.000982	5.03E-05	0.00E+00	9.82E-04	5.03E-05	0.00E+00	2.94E-04	9.05E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
364	458055.9	3768804	0.000956	4.9E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
365	458047.1	3768808	0.000931	4.77E-05	0.00E+00	9.31E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
366	458038.2	3768812	0.000907	4.65E-05	0.00E+00	9.07E-04	4.65E-05	0.00E+00	2.72E-04	8.36E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
367	458029.4	3768816	0.000883	4.53E-05	0.00E+00	8.83E-04	4.53E-05	0.00E+00	2.64E-04	8.14E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
368	458020.6	3768819	0.00086	4.41E-05	0.00E+00	8.60E-04	4.41E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.75E-05	2.56E-06	0.00E+00
369	458011.8	3768823	0.000836	4.28E-05	0.00E+00	8.36E-04	4.28E-05	0.00E+00	2.50E-04	7.70E-06	0.00E+00	9.48E-05	2.49E-06	0.00E+00
370	458002.9	3768827	0.000812	4.16E-05	0.00E+00	8.12E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.21E-05	2.42E-06	0.00E+00
371	457994.1	3768830	0.000788	4.04E-05	0.00E+00	7.88E-04	4.04E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.94E-05	2.35E-06	0.00E+00
372	457985.3	3768834	0.000765	3.92E-05	0.00E+00	7.65E-04	3.92E-05	0.00E+00	2.29E-04	7.05E-06	0.00E+00	8.68E-05	2.28E-06	0.00E+00
373	457976.5	3768838	0.000742	3.81E-05	0.00E+00	7.42E-04	3.81E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
374	457967.6	3768841	0.00072	3.69E-05	0.00E+00	7.20E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.17E-05	2.14E-06	0.00E+00
375	457958.8	3768845	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
376	457950	3768849	0.000677	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.68E-05	2.01E-06	0.00E+00
377	457941.2	3768852	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
378	457932.3	3768856	0.000636	3.26E-05	0.00E+00	6.36E-04	3.26E-05	0.00E+00	1.90E-04	5.86E-06	0.00E+00	7.22E-05	1.89E-06	0.00E+00
379	457923.5	3768860	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
380	457914.7	3768863	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.78E-05	1.78E-06	0.00E+00
381	457905.9	3768867	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
382	457897	3768871	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
383	457888.2	3768875	0.000544	2.79E-05	0.00E+00	5.44E-04	2.79E-05	0.00E+00	1.63E-04	5.02E-06	0.00E+00	6.18E-05	1.62E-06	0.00E+00
384	457879.4	3768878	0.000528	2.71E-05	0.00E+00	5.28E-04	2.71E-05	0.00E+00	1.58E-04	4.87E-06	0.00E+00	5.99E-05	1.57E-06	0.00E+00
385	457870.6	3768882	0.000512	2.62E-05	0.00E+00	5.12E-04	2.62E-05	0.00E+00	1.53E-04	4.72E-06	0.00E+00	5.80E-05	1.52E-06	0.00E+00
386	457861.7	3768886	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
387	457852.9	3768889	0.000483	2.48E-05	0.00E+00	4.83E-04	2.48E-05	0.00E+00	1.45E-04	4.45E-06	0.00E+00	5.48E-05	1.44E-06	0.00E+00
388	457844.1	3768893	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
389	457835.3	3768897	0.000456	2.34E-05	0.00E+00	4.56E-04	2.34E-05	0.00E+00	1.37E-04	4.20E-06	0.00E+00	5.17E-05	1.36E-06	0.00E+00
390	457826.4	3768900	0.000442	2.27E-05	0.00E+00	4.42E-04	2.27E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.32E-06	0.00E+00
391	457817.6	3768904	0.000429	2.2E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.28E-04	3.95E-06	0.00E+00	4.86E-05	1.28E-06	0.00E+00
392	457808.8	3768908	0.000416	2.13E-05	0.00E+00	4.16E-04	2.13E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.72E-05	1.24E-06	0.00E+00
393	457800	3768911	0.000405	2.08E-05	0.00E+00	4.05E-04	2.08E-05	0.00E+00	1.21E-04	3.74E-06	0.00E+00	4.60E-05	1.21E-06	0.00E+00
394	457791.1	3768915	0.000395	2.02E-05	0.00E+00	3.95E-04	2.02E-05	0.00E+00	1.18E-04	3.64E-06	0.00E+00	4.48E-05	1.18E-06	0.00E+00
395	457782.3	3768919	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.15E-06	0.00E+00
396	457773.5	3768922	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.25E-05	1.12E-06	0.00E+00
397	457764.7	3768926	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.08E-06	0.00E+00
398	457755.8	3768930	0.000355	1.82E-05	0.00E+00	3.55E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.03E-05	1.06E-06	0.00E+00
399	457747	3768934	0.000346	1.77E-05	0.00E+00	3.46E-04	1.77E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
400	457738.2	3768937	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.00E-06	0.00E+00
401	457729.4	3768941	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.89E-05	3.04E-06	0.00E+00	3.74E-05	9.82E-07	0.00E+00
402	458369	3768455	0.001774	9.1E-05	0.00E+00	1.77E-03	9.10E-05	0.00E+00	5.31E-04	1.64E-05	0.00E+00	2.01E-04	5.28E-06	0.00E+00
403	458365.4	3768463	0.001784	9.15E-05	0.00E+00	1.78E-03	9.15E-05	0.00E+00	5.34E-04	1.64E-05	0.00E+00	2.02E-04	5.31E-06	0.00E+00
404	458361.8	3768472	0.001793	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.34E-06	0.00E+00
405	458358.2	3768481	0.001801	9.23E-05	0.00E+00	1.80E-03	9.23E-05	0.00E+00	5.39E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
406	458354.6	3768490	0.001807	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
407	458351.1	3768499	0.00181	9.28E-05	0.00E+00	1.81E-03	9.28E-05	0.00E+00	5.42E-04	1.67E-05	0.00E+00	2.05E-04	5.39E-06	0.00E+00
408	458347.5	3768508	0.001812	9.29E-05	0.00E+00	1.81E-03	9.29E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.39E-06	0.00E+00
409	458343.9	3768517	0.001812	9.29E-05	0.00E+00	1.81E-03	9.29E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.39E-06	0.00E+00
410	458340.3	3768526	0.00181	9.28E-05	0.00E+00	1.81E-03	9.28E-05	0.00E+00	5.42E-04	1.67E-05	0.00E+00	2.05E-04	5.39E-06	0.00E+00
411	458336.7	3768535	0.001807	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
412	458333.1	3768544	0.001802	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
413	458329.5	3768553	0.001796	9.21E-05	0.00E+00	1.80E-03	9.21E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.34E-06	0.00E+00
414	458325.9	3768561	0.001787	9.16E-05	0.00E+00	1.79E-03	9.16E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
415	458322.3	3768570	0.001777	9.11E-05	0.00E+00	1.78E-03	9.11E-05	0.00E+00	5.32E-04	1.64E-05	0.00E+00	2.02E-04	5.29E-06	0.00E+00
416	458318.7	3768579	0.001765	9.05E-05	0.00E+00	1.77E-03	9.05E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
417	458315.1	3768588	0.001751	8.98E-05	0.00E+00	1.75E-03	8.98E-05	0.00E+00	5.25E-04	1.61E-05	0.00E+00	1.99E-04	5.21E-06	0.00E+00
418	458311.5	3768597	0.001736	8.9E-05	0.00E+00	1.74E-03	8.90E-05	0.00E+00	5.20E-04	1.60E-05	0.00E+00	1.97E-04	5.17E-06	0.00E+00
419	458307.9	3768606	0.00172	8.82E-05	0.00E+00	1.72E-03	8.82E-05	0.00E+00	5.15E-04	1.59E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
420	458304.3	3768615	0.001702	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.10E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
421	458300.7	3768624	0.001683	8.63E-05	0.00E+00	1.68E-03	8.63E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
422	458297.1	3768633	0.001662	8.52E-05	0.00E+00	1.66E-03	8.52E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
423	458293.5	3768642	0.00164	8.41E-05	0.00E+00	1.64E-03	8.41E-05	0.00E+00	4.91E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
424	458289.9	3768650	0.001617	8.29E-05	0.00E+00	1.62E-03	8.29E-05	0.00E+00	4.84E-04	1.49E-05	0.00E+00	1.83E-04	4.81E-06	0.00E+00
425	458286.3	3768659	0.001593	8.17E-05	0.00E+00	1.59E-03	8.17E-05	0.00E+00	4.77E-04	1.47E-05	0.00E+00	1.81E-04	4.74E-06	0.00E+00
426	458282.7	3768668	0.001568	8.04E-05	0.00E+00	1.57E-03	8.04E-05	0.00E+00	4.69E-04	1.44E-05	0.00E+00	1.78E-04	4.66E-06	0.00E+00
427	458279.2	3768677	0.001541	7.9E-05	0.00E+00	1.54E-03	7.90E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
428	458275.6	3768686	0.001514	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
429	458272	3768695	0.001487	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.42E-06	0.00E+00
430	458268.4	3768704	0.001458	7.48E-05	0.00E+00	1.46E-03	7.48E-05	0.00E+00	4.37E-04	1.34E-05	0.00E+00	1.65E-04	4.34E-06	0.00E+00
431	458264.8	3768713	0.001429	7.33E-05	0.00E+00	1.43E-03	7.33E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
432	458261.2	3768722	0.001399	7.17E-05	0.00E+00	1.40E-03	7.17E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.16E-06	0.00E+00
433	458257.6	3768731	0.001368	7.01E-05	0.00E+00	1.37E-03	7.01E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
434	458254	3768739	0.001337	6.86E-05	0.00E+00	1.34E-03	6.86E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
435	458250.4	3768748	0.001307	6.7E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.91E-04	1.20E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
436	458246.8	3768757	0.001276	6.54E-05	0.00E+00	1.28E-03	6.54E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
437	458234.3	3768770	0.00123	6.31E-05	0.00E+00	1.23E-03	6.31E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.40E-04	3.66E-06	0.00E+00
438	458225.5	3768774	0.001215	6.23E-05	0.00E+00	1.21E-03	6.23E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
439	458216.6	3768777	0.001199	6.15E-05	0.00E+00	1.20E-03	6.15E-05	0.00E+00	3.59E-04	1.10E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
440	458207.8	3768781	0.001182	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
441	458198.9	3768785	0.001164	5.97E-05	0.00E+00	1.16E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
442	458190.1	3768788	0.001146	5.87E-05	0.00E+00	1.15E-03	5.87E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
443	458181.2	3768792	0.001127	5.78E-05	0.00E+00	1.13E-03	5.78E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
444	458172.3	3768796	0.001107	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
445	458163.5	3768799	0.001087	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.24E-06	0.00E+00
446	458154.6	3768803	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.19E-04	9.83E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
447	458145.8	3768807	0.001046	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.64E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
448	458101.5	3768825	0.000936	4.8E-05	0.00E+00	9.36E-04	4.80E-05	0.00E+00	2.80E-04	8.63E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
449	458092.6	3768829	0.000914	4.68E-05	0.00E+00	9.14E-04	4.68E-05	0.00E+00	2.74E-04	8.42E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
450	458083.8	3768833	0.000891	4.57E-05	0.00E+00	8.91E-04	4.57E-05	0.00E+00	2.67E-04	8.22E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
451	458074.9	3768836	0.000869	4.45E-05	0.00E+00	8.69E-04	4.45E-05	0.00E+00	2.60E-04	8.01E-06	0.00E+00	9.86E-05	2.59E-06	0.00E+00
452	458066.1	3768840	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.80E-06	0.00E+00	9.60E-05	2.52E-06	0.00E+00

453	458057.2	3768844	0.000824	4.23E-05	0.00E+00	8.24E-04	4.23E-05	0.00E+00	2.47E-04	7.60E-06	0.00E+00	9.35E-05	2.45E-06	0.00E+00
454	458048.3	3768848	0.000802	4.11E-05	0.00E+00	8.02E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.10E-05	2.39E-06	0.00E+00
455	458039.5	3768851	0.000781	4E-05	0.00E+00	7.81E-04	4.00E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.86E-05	2.32E-06	0.00E+00
456	458030.6	3768855	0.000759	3.89E-05	0.00E+00	7.59E-04	3.89E-05	0.00E+00	2.27E-04	6.99E-06	0.00E+00	8.61E-05	2.26E-06	0.00E+00
457	458021.8	3768859	0.000737	3.78E-05	0.00E+00	7.37E-04	3.78E-05	0.00E+00	2.21E-04	6.80E-06	0.00E+00	8.36E-05	2.19E-06	0.00E+00
458	458012.9	3768862	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
459	458004	3768866	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.91E-05	2.08E-06	0.00E+00
460	457995.2	3768870	0.000678	3.47E-05	0.00E+00	6.78E-04	3.47E-05	0.00E+00	2.03E-04	6.25E-06	0.00E+00	7.69E-05	2.02E-06	0.00E+00
461	457986.3	3768874	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.06E-06	0.00E+00	7.46E-05	1.96E-06	0.00E+00
462	457977.5	3768877	0.000637	3.27E-05	0.00E+00	6.37E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.23E-05	1.90E-06	0.00E+00
463	457968.6	3768881	0.000618	3.17E-05	0.00E+00	6.18E-04	3.17E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
464	457959.8	3768885	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.79E-05	1.78E-06	0.00E+00
465	457950.9	3768888	0.000582	2.98E-05	0.00E+00	5.82E-04	2.98E-05	0.00E+00	1.74E-04	5.36E-06	0.00E+00	6.60E-05	1.73E-06	0.00E+00
466	457942	3768892	0.000565	2.9E-05	0.00E+00	5.65E-04	2.90E-05	0.00E+00	1.69E-04	5.21E-06	0.00E+00	6.41E-05	1.68E-06	0.00E+00
467	457933.2	3768896	0.000549	2.82E-05	0.00E+00	5.49E-04	2.82E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
468	457924.3	3768899	0.000533	2.73E-05	0.00E+00	5.33E-04	2.73E-05	0.00E+00	1.60E-04	4.91E-06	0.00E+00	6.05E-05	1.59E-06	0.00E+00
469	457915.5	3768903	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
470	457906.6	3768907	0.000502	2.58E-05	0.00E+00	5.02E-04	2.58E-05	0.00E+00	1.51E-04	4.63E-06	0.00E+00	5.70E-05	1.50E-06	0.00E+00
471	457897.8	3768911	0.000488	2.5E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
472	457888.9	3768914	0.000474	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
473	457880	3768918	0.00046	2.36E-05	0.00E+00	4.60E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.22E-05	1.37E-06	0.00E+00
474	457871.2	3768922	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.07E-05	1.33E-06	0.00E+00
475	457862.3	3768925	0.000434	2.23E-05	0.00E+00	4.34E-04	2.23E-05	0.00E+00	1.30E-04	4.00E-06	0.00E+00	4.92E-05	1.29E-06	0.00E+00
476	457853.5	3768929	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
477	457844.6	3768933	0.00041	2.1E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
478	457835.8	3768936	0.000399	2.04E-05	0.00E+00	3.99E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.52E-05	1.19E-06	0.00E+00
479	457826.9	3768940	0.000388	1.99E-05	0.00E+00	3.88E-04	1.99E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.40E-05	1.15E-06	0.00E+00
480	457818	3768944	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
481	457809.2	3768948	0.000367	1.88E-05	0.00E+00	3.67E-04	1.88E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00
482	457800.3	3768951	0.000358	1.83E-05	0.00E+00	3.58E-04	1.83E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.07E-06	0.00E+00
483	457791.5	3768955	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.04E-04	3.22E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
484	457782.6	3768959	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.14E-06	0.00E+00	3.86E-05	1.01E-06	0.00E+00
485	457773.8	3768962	0.000332	1.7E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.94E-05	3.06E-06	0.00E+00	3.76E-05	9.87E-07	0.00E+00
486	457764.9	3768966	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.70E-05	2.99E-06	0.00E+00	3.67E-05	9.64E-07	0.00E+00
487	457756	3768970	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.47E-05	2.91E-06	0.00E+00	3.59E-05	9.41E-07	0.00E+00
488	457747.2	3768973	0.000309	1.58E-05	0.00E+00	3.09E-04	1.58E-05	0.00E+00	9.25E-05	2.85E-06	0.00E+00	3.51E-05	9.19E-07	0.00E+00
489	457738.3	3768977	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.04E-05	2.78E-06	0.00E+00	3.43E-05	8.98E-07	0.00E+00
490	457729.5	3768981	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.84E-05	2.72E-06	0.00E+00	3.35E-05	8.79E-07	0.00E+00
491	458408.7	3768455	0.001643	8.42E-05	0.00E+00	1.64E-03	8.42E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.89E-06	0.00E+00
492	458405.1	3768464	0.001654	8.48E-05	0.00E+00	1.65E-03	8.48E-05	0.00E+00	4.96E-04	1.53E-05	0.00E+00	1.88E-04	4.92E-06	0.00E+00
493	458401.5	3768473	0.001665	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.99E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
494	458397.9	3768482	0.001674	8.58E-05	0.00E+00	1.67E-03	8.58E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
495	458394.3	3768491	0.001682	8.62E-05	0.00E+00	1.68E-03	8.62E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.00E-06	0.00E+00
496	458390.7	3768500	0.001688	8.65E-05	0.00E+00	1.69E-03	8.65E-05	0.00E+00	5.05E-04	1.56E-05	0.00E+00	1.91E-04	5.02E-06	0.00E+00
497	458387.1	3768508	0.001692	8.67E-05	0.00E+00	1.69E-03	8.67E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
498	458383.5	3768517	0.001694	8.69E-05	0.00E+00	1.69E-03	8.69E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.04E-06	0.00E+00
499	458379.9	3768526	0.001696	8.69E-05	0.00E+00	1.70E-03	8.69E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.92E-04	5.05E-06	0.00E+00
500	458376.3	3768535	0.001696	8.69E-05	0.00E+00	1.70E-03	8.69E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.92E-04	5.05E-06	0.00E+00
501	458372.6	3768544	0.001694	8.69E-05	0.00E+00	1.69E-03	8.69E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.04E-06	0.00E+00
502	458369	3768553	0.001691	8.67E-05	0.00E+00	1.69E-03	8.67E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
503	458365.4	3768562	0.001687	8.65E-05	0.00E+00	1.69E-03	8.65E-05	0.00E+00	5.05E-04	1.55E-05	0.00E+00	1.91E-04	5.02E-06	0.00E+00
504	458361.8	3768571	0.00168	8.61E-05	0.00E+00	1.68E-03	8.61E-05	0.00E+00	5.03E-04	1.55E-05	0.00E+00	1.91E-04	5.00E-06	0.00E+00
505	458358.2	3768580	0.001672	8.57E-05	0.00E+00	1.67E-03	8.57E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
506	458354.6	3768589	0.001663	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
507	458351	3768598	0.001653	8.47E-05	0.00E+00	1.65E-03	8.47E-05	0.00E+00	4.95E-04	1.52E-05	0.00E+00	1.87E-04	4.92E-06	0.00E+00
508	458347.4	3768607	0.001641	8.41E-05	0.00E+00	1.64E-03	8.41E-05	0.00E+00	4.91E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
509	458343.8	3768616	0.001627	8.34E-05	0.00E+00	1.63E-03	8.34E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.85E-04	4.84E-06	0.00E+00
510	458340.2	3768625	0.001612	8.27E-05	0.00E+00	1.61E-03	8.27E-05	0.00E+00	4.83E-04	1.49E-05	0.00E+00	1.83E-04	4.80E-06	0.00E+00
511	458336.6	3768633	0.001596	8.18E-05	0.00E+00	1.60E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
512	458333	3768642	0.001579	8.1E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
513	458329.4	3768651	0.001561	8E-05	0.00E+00	1.56E-03	8.00E-05	0.00E+00	4.67E-04	1.44E-05	0.00E+00	1.77E-04	4.64E-06	0.00E+00
514	458325.8	3768660	0.001541	7.9E-05	0.00E+00	1.54E-03	7.90E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
515	458322.2	3768669	0.00152	7.79E-05	0.00E+00	1.52E-03	7.79E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
516	458318.5	3768678	0.001499	7.68E-05	0.00E+00	1.50E-03	7.68E-05	0.00E+00	4.49E-04	1.38E-05	0.00E+00	1.70E-04	4.46E-06	0.00E+00
517	458314.9	3768687	0.001476	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.67E-04	4.39E-06	0.00E+00
518	458311.3	3768696	0.001453	7.45E-05	0.00E+00	1.45E-03	7.45E-05	0.00E+00	4.35E-04	1.34E-05	0.00E+00	1.65E-04	4.32E-06	0.00E+00
519	458307.7	3768705	0.001429	7.32E-05	0.00E+00	1.43E-03	7.32E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
520	458304.1	3768714	0.001404	7.2E-05	0.00E+00	1.40E-03	7.20E-05	0.00E+00	4.20E-04	1.29E-05	0.00E+00	1.59E-04	4.18E-06	0.00E+00
521	458300.5	3768723	0.001378	7.06E-05	0.00E+00	1.38E-03	7.06E-05	0.00E+00	4.13E-04	1.27E-05	0.00E+00	1.56E-04	4.10E-06	0.00E+00
522	458296.9	3768732	0.001352	6.93E-05	0.00E+00	1.35E-03	6.93E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.02E-06	0.00E+00
523	458293.3	3768741	0.001325	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
524	458289.7	3768750	0.001298	6.65E-05	0.00E+00	1.30E-03	6.65E-05	0.00E+00	3.89E-04	1.20E-05	0.00E+00	1.47E-04	3.86E-06	0.00E+00
525	458286.1	3768759	0.00127	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
526	458282.5	3768767	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
527	458278.9	3768776	0.001214	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
528	458275.3	3768785	0.001185	6.08E-05	0.00E+00	1.19E-03	6.08E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.34E-04	3.53E-06	0.00E+00
529	458262.8	3768798	0.001142	5.86E-05	0.00E+00	1.14E-03	5.86E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.30E-04	3.40E-06	0.00E+00
530	458253.9	3768802	0.001129	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
531	458245	3768805	0.001114	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.26E-04	3.32E-06	0.00E+00
532	458236.1	3768809	0.001099	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
533	458227.2	3768813	0.001083	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.98E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
534	458218.3	3768817	0.001066	5.46E-05	0.00E+00	1.07E-03	5.46E-05	0.00E+00	3.19E-04	9.82E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
535	458209.4	3768820	0.001048	5.37E-05	0.00E+00	1.05E-03	5.37E-05	0.00E+00	3.14E-04	9.66E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
536	458200.6	3768824	0.001029	5.28E-05	0.00E+00	1.03E-03	5.28E-05	0.00E+00	3.08E-04	9.49E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
537	458191.7	3768828	0.001012	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.32E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
538	458182.8	3768831	0.000994	5.09E-05	0.00E+00	9.94E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
539	458173.9	3768835	0.000975	0.00005	0.00E+00	9.75E-04	5.00E-05	0.00E+00	2.92E-04	8.99E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
540	458165	3768839	0.000956	4.9E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
541	458156.1	3768843	0.000937	4.8E-05	0.00E+00	9.37E-04	4.80E-05	0.00E+00	2.81E-04	8.63E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
542	458147.2	3768846	0.000917	4.7E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
543	458102.8	3768865	0.000816	4.18E-05	0.00E+00	8.16E-04	4.18E-05	0.00E+00	2.44E-04	7.52E-06	0.00E+00	9.25E-05	2.43E-06	0.00E+00

544	458093.9	3768869	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
545	458085	3768872	0.000776	3.98E-05	0.00E+00	7.76E-04	3.98E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
546	458076.2	3768876	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
547	458067.3	3768880	0.000736	3.77E-05	0.00E+00	7.36E-04	3.77E-05	0.00E+00	2.20E-04	6.79E-06	0.00E+00	8.35E-05	2.19E-06	0.00E+00
548	458058.4	3768883	0.000716	3.67E-05	0.00E+00	7.16E-04	3.67E-05	0.00E+00	2.15E-04	6.60E-06	0.00E+00	8.13E-05	2.13E-06	0.00E+00
549	458049.5	3768887	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
550	458040.6	3768891	0.000677	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.68E-05	2.01E-06	0.00E+00
551	458031.7	3768895	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
552	458022.8	3768898	0.00064	3.28E-05	0.00E+00	6.40E-04	3.28E-05	0.00E+00	1.92E-04	5.90E-06	0.00E+00	7.26E-05	1.90E-06	0.00E+00
553	458013.9	3768902	0.000622	3.19E-05	0.00E+00	6.22E-04	3.19E-05	0.00E+00	1.86E-04	5.73E-06	0.00E+00	7.06E-05	1.85E-06	0.00E+00
554	458005.1	3768906	0.000604	3.1E-05	0.00E+00	6.04E-04	3.10E-05	0.00E+00	1.81E-04	5.57E-06	0.00E+00	6.85E-05	1.80E-06	0.00E+00
555	457996.2	3768909	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.65E-05	1.75E-06	0.00E+00
556	457987.3	3768913	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
557	457978.4	3768917	0.000553	2.83E-05	0.00E+00	5.53E-04	2.83E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.27E-05	1.65E-06	0.00E+00
558	457969.5	3768921	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
559	457960.6	3768924	0.000521	2.67E-05	0.00E+00	5.21E-04	2.67E-05	0.00E+00	1.56E-04	4.80E-06	0.00E+00	5.91E-05	1.55E-06	0.00E+00
560	457951.7	3768928	0.000506	2.59E-05	0.00E+00	5.06E-04	2.59E-05	0.00E+00	1.52E-04	4.66E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
561	457942.9	3768932	0.000491	2.52E-05	0.00E+00	4.91E-04	2.52E-05	0.00E+00	1.47E-04	4.53E-06	0.00E+00	5.57E-05	1.46E-06	0.00E+00
562	457934	3768935	0.000477	2.44E-05	0.00E+00	4.77E-04	2.44E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
563	457925.1	3768939	0.000463	2.37E-05	0.00E+00	4.63E-04	2.37E-05	0.00E+00	1.39E-04	4.27E-06	0.00E+00	5.26E-05	1.38E-06	0.00E+00
564	457916.2	3768943	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.11E-05	1.34E-06	0.00E+00
565	457907.3	3768947	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
566	457898.4	3768950	0.000425	2.18E-05	0.00E+00	4.25E-04	2.18E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.82E-05	1.26E-06	0.00E+00
567	457889.5	3768954	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
568	457880.6	3768958	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.71E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
569	457871.8	3768961	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.45E-05	1.17E-06	0.00E+00
570	457862.9	3768965	0.000381	1.95E-05	0.00E+00	3.81E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
571	457854	3768969	0.000371	1.9E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.20E-05	1.10E-06	0.00E+00
572	457845.1	3768973	0.00036	1.85E-05	0.00E+00	3.60E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
573	457836.2	3768976	0.000351	1.8E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.24E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
574	457827.3	3768980	0.000343	1.76E-05	0.00E+00	3.43E-04	1.76E-05	0.00E+00	1.03E-04	3.16E-06	0.00E+00	3.89E-05	1.02E-06	0.00E+00
575	457818.4	3768984	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.97E-07	0.00E+00
576	457809.6	3768987	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.79E-05	3.01E-06	0.00E+00	3.71E-05	9.73E-07	0.00E+00
577	457800.7	3768991	0.000319	1.63E-05	0.00E+00	3.19E-04	1.63E-05	0.00E+00	9.55E-05	2.94E-06	0.00E+00	3.62E-05	9.49E-07	0.00E+00
578	457791.8	3768995	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.31E-05	2.87E-06	0.00E+00	3.53E-05	9.25E-07	0.00E+00
579	457782.9	3768999	0.000303	1.56E-05	0.00E+00	3.03E-04	1.56E-05	0.00E+00	9.09E-05	2.80E-06	0.00E+00	3.44E-05	9.03E-07	0.00E+00
580	457774	3769002	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.88E-05	2.73E-06	0.00E+00	3.36E-05	8.83E-07	0.00E+00
581	457765.1	3769006	0.00029	1.49E-05	0.00E+00	2.90E-04	1.49E-05	0.00E+00	8.70E-05	2.68E-06	0.00E+00	3.30E-05	8.64E-07	0.00E+00
582	457756.2	3769010	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.52E-05	2.62E-06	0.00E+00	3.23E-05	8.47E-07	0.00E+00
583	457747.3	3769013	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.35E-05	2.57E-06	0.00E+00	3.16E-05	8.29E-07	0.00E+00
584	457738.5	3769017	0.000273	1.4E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.51E-06	0.00E+00	3.10E-05	8.12E-07	0.00E+00
585	457729.6	3769021	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.01E-05	2.46E-06	0.00E+00	3.03E-05	7.96E-07	0.00E+00
586	457992.7	3767772	0.000709	3.64E-05	0.00E+00	7.09E-04	3.64E-05	0.00E+00	2.12E-04	6.54E-06	0.00E+00	8.05E-05	2.11E-06	0.00E+00
587	457996.5	3767781	0.000719	3.69E-05	0.00E+00	7.19E-04	3.69E-05	0.00E+00	2.15E-04	6.63E-06	0.00E+00	8.16E-05	2.14E-06	0.00E+00
588	458000.4	3767790	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
589	458004.2	3767799	0.000741	3.8E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00
590	458008	3767808	0.000753	3.86E-05	0.00E+00	7.53E-04	3.86E-05	0.00E+00	2.26E-04	6.94E-06	0.00E+00	8.55E-05	2.24E-06	0.00E+00
591	458011.9	3767817	0.000767	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
592	458015.7	3767826	0.000781	4.01E-05	0.00E+00	7.81E-04	4.01E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
593	457991	3767709	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00
594	458000.1	3767713	0.000615	3.15E-05	0.00E+00	6.15E-04	3.15E-05	0.00E+00	1.84E-04	5.67E-06	0.00E+00	6.97E-05	1.83E-06	0.00E+00
595	458013.1	3767725	0.000613	3.14E-05	0.00E+00	6.13E-04	3.14E-05	0.00E+00	1.84E-04	5.65E-06	0.00E+00	6.95E-05	1.82E-06	0.00E+00
596	458017	3767735	0.000619	3.17E-05	0.00E+00	6.19E-04	3.17E-05	0.00E+00	1.85E-04	5.71E-06	0.00E+00	7.03E-05	1.84E-06	0.00E+00
597	458020.8	3767744	0.000626	3.21E-05	0.00E+00	6.26E-04	3.21E-05	0.00E+00	1.88E-04	5.77E-06	0.00E+00	7.10E-05	1.86E-06	0.00E+00
598	458024.7	3767753	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.84E-06	0.00E+00	7.19E-05	1.89E-06	0.00E+00
599	458028.5	3767762	0.000642	3.29E-05	0.00E+00	6.42E-04	3.29E-05	0.00E+00	1.92E-04	5.92E-06	0.00E+00	7.28E-05	1.91E-06	0.00E+00
600	458032.4	3767771	0.00065	3.33E-05	0.00E+00	6.50E-04	3.33E-05	0.00E+00	1.95E-04	6.00E-06	0.00E+00	7.38E-05	1.94E-06	0.00E+00
601	458036.2	3767780	0.00066	3.38E-05	0.00E+00	6.60E-04	3.38E-05	0.00E+00	1.98E-04	6.08E-06	0.00E+00	7.49E-05	1.96E-06	0.00E+00
602	458040.1	3767789	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
603	458043.9	3767798	0.000682	3.5E-05	0.00E+00	6.82E-04	3.50E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.74E-05	2.03E-06	0.00E+00
604	458047.8	3767807	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.87E-05	2.07E-06	0.00E+00
605	458051.6	3767816	0.000707	3.62E-05	0.00E+00	7.07E-04	3.62E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
606	458055.5	3767825	0.000721	3.7E-05	0.00E+00	7.21E-04	3.70E-05	0.00E+00	2.16E-04	6.65E-06	0.00E+00	8.18E-05	2.15E-06	0.00E+00
607	457708.6	3767553	0.001026	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.46E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
608	457717.7	3767557	0.001007	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
609	457726.8	3767561	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.11E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
610	457736	3767565	0.00097	4.97E-05	0.00E+00	9.70E-04	4.97E-05	0.00E+00	2.90E-04	8.94E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
611	457745.1	3767568	0.000951	4.88E-05	0.00E+00	9.51E-04	4.88E-05	0.00E+00	2.85E-04	8.77E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
612	457754.2	3767572	0.000933	4.78E-05	0.00E+00	9.33E-04	4.78E-05	0.00E+00	2.79E-04	8.60E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
613	457991.7	3767669	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
614	458000.8	3767673	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.48E-05	1.70E-06	0.00E+00
615	458010	3767677	0.000563	2.89E-05	0.00E+00	5.63E-04	2.89E-05	0.00E+00	1.69E-04	5.19E-06	0.00E+00	6.39E-05	1.68E-06	0.00E+00
616	458019.1	3767680	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.67E-04	5.12E-06	0.00E+00	6.31E-05	1.65E-06	0.00E+00
617	458028.2	3767684	0.000549	2.81E-05	0.00E+00	5.49E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
618	458041.2	3767697	0.000547	2.8E-05	0.00E+00	5.47E-04	2.80E-05	0.00E+00	1.64E-04	5.04E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
619	458045.1	3767706	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
620	458048.9	3767715	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
621	458052.8	3767724	0.000564	2.89E-05	0.00E+00	5.64E-04	2.89E-05	0.00E+00	1.69E-04	5.20E-06	0.00E+00	6.39E-05	1.68E-06	0.00E+00
622	458056.7	3767733	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
623	458060.5	3767742	0.000577	2.96E-05	0.00E+00	5.77E-04	2.96E-05	0.00E+00	1.73E-04	5.32E-06	0.00E+00	6.55E-05	1.72E-06	0.00E+00
624	458064.4	3767752	0.000584	3E-05	0.00E+00	5.84E-04	3.00E-05	0.00E+00	1.75E-04	5.39E-06	0.00E+00	6.63E-05	1.74E-06	0.00E+00
625	458068.2	3767761	0.000593	3.04E-05	0.00E+00	5.93E-04	3.04E-05	0.00E+00	1.78E-04	5.46E-06	0.00E+00	6.72E-05	1.76E-06	0.00E+00
626	458072.1	3767770	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.82E-05	1.79E-06	0.00E+00
627	458076	3767779	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.63E-06	0.00E+00	6.93E-05	1.82E-06	0.00E+00
628	458079.8	3767788	0.000621	3.19E-05	0.00E+00	6.21E-04	3.19E-05	0.00E+00	1.86E-04	5.73E-06	0.00E+00	7.05E-05	1.85E-06	0.00E+00
629	458083.7	3767797	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
630	458087.5	3767806	0.000644	3.3E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00
631	458091.4	3767815	0.000657	3.37E-05	0.00E+00	6.57E-04	3.37E-05	0.00E+00	1.97E-04	6.06E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
632	458095.3	3767824	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	1.99E-06	0.00E+00
633	457699.4	3767550	0.001045	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.63E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
634	457689.5	3767550	0.001076	5.51E-05	0.00E+00	1.08E-03	5.51E-05	0.00E+00	3.22E-04	9.92E-06	0.00E+00	1.22E-04	3.20E-06	0.00E+00

635	457679.5	3767550	0.001107	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.29E-06	0.00E+00
636	457669.6	3767550	0.001139	5.84E-05	0.00E+00	1.14E-03	5.84E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
637	457659.7	3767550	0.001172	6.01E-05	0.00E+00	1.17E-03	6.01E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
638	457649.7	3767550	0.001205	6.18E-05	0.00E+00	1.20E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.58E-06	0.00E+00
639	457639.8	3767550	0.001238	6.35E-05	0.00E+00	1.24E-03	6.35E-05	0.00E+00	3.71E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
640	457629.8	3767550	0.001272	6.52E-05	0.00E+00	1.27E-03	6.52E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
641	457619.9	3767550	0.001307	6.7E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.91E-04	1.20E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
642	457609.9	3767550	0.001341	6.88E-05	0.00E+00	1.34E-03	6.88E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	3.99E-06	0.00E+00
643	457600	3767550	0.001376	7.06E-05	0.00E+00	1.38E-03	7.06E-05	0.00E+00	4.12E-04	1.27E-05	0.00E+00	1.56E-04	4.10E-06	0.00E+00
644	457590	3767550	0.001412	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
645	457580.1	3767550	0.001447	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
646	457570.1	3767550	0.001483	7.6E-05	0.00E+00	1.48E-03	7.60E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
647	457560.2	3767550	0.001518	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
648	457550.2	3767550	0.001553	7.96E-05	0.00E+00	1.55E-03	7.96E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
649	457540.3	3767550	0.001588	8.14E-05	0.00E+00	1.59E-03	8.14E-05	0.00E+00	4.76E-04	1.46E-05	0.00E+00	1.80E-04	4.73E-06	0.00E+00
650	457530.3	3767550	0.001623	8.32E-05	0.00E+00	1.62E-03	8.32E-05	0.00E+00	4.86E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
651	457520.4	3767550	0.001657	8.49E-05	0.00E+00	1.66E-03	8.49E-05	0.00E+00	4.96E-04	1.53E-05	0.00E+00	1.88E-04	4.93E-06	0.00E+00
652	457510.4	3767550	0.00169	8.67E-05	0.00E+00	1.69E-03	8.67E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
653	457500.5	3767550	0.001723	8.83E-05	0.00E+00	1.72E-03	8.83E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.95E-04	5.13E-06	0.00E+00
654	457490.5	3767550	0.001755	9E-05	0.00E+00	1.75E-03	9.00E-05	0.00E+00	5.26E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
655	457480.6	3767550	0.001786	9.16E-05	0.00E+00	1.79E-03	9.16E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.31E-06	0.00E+00
656	457470.6	3767550	0.001816	9.31E-05	0.00E+00	1.82E-03	9.31E-05	0.00E+00	5.44E-04	1.67E-05	0.00E+00	2.06E-04	5.40E-06	0.00E+00
657	457460.7	3767550	0.001845	9.46E-05	0.00E+00	1.84E-03	9.46E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
658	457450.7	3767550	0.001872	9.6E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
659	457440.8	3767550	0.001899	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
660	457430.8	3767550	0.001924	9.86E-05	0.00E+00	1.92E-03	9.86E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.72E-06	0.00E+00
661	457420.9	3767550	0.001947	9.98E-05	0.00E+00	1.95E-03	9.98E-05	0.00E+00	5.83E-04	1.79E-05	0.00E+00	2.21E-04	5.79E-06	0.00E+00
662	457410.9	3767550	0.001969	0.000101	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.90E-04	1.81E-05	0.00E+00	2.23E-04	5.86E-06	0.00E+00
663	457401	3767550	0.001989	0.000102	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.96E-04	1.83E-05	0.00E+00	2.26E-04	5.92E-06	0.00E+00
664	457391	3767550	0.002008	0.000103	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.01E-04	1.85E-05	0.00E+00	2.28E-04	5.97E-06	0.00E+00
665	457381.1	3767550	0.002024	0.000104	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.87E-05	0.00E+00	2.30E-04	6.02E-06	0.00E+00
666	457371.1	3767550	0.002039	0.000105	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.31E-04	6.07E-06	0.00E+00
667	457361.2	3767550	0.002052	0.000105	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.14E-04	1.89E-05	0.00E+00	2.33E-04	6.11E-06	0.00E+00
668	457351.2	3767550	0.002062	0.000106	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
669	457341.3	3767550	0.002071	0.000106	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
670	457331.3	3767550	0.002078	0.000107	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.22E-04	1.92E-05	0.00E+00	2.36E-04	6.18E-06	0.00E+00
671	457321.4	3767550	0.002083	0.000107	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
672	457708.5	3767513	0.000942	4.83E-05	0.00E+00	9.42E-04	4.83E-05	0.00E+00	2.82E-04	8.69E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
673	457717.7	3767517	0.000926	4.75E-05	0.00E+00	9.26E-04	4.75E-05	0.00E+00	2.77E-04	8.53E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
674	457726.8	3767521	0.000909	4.66E-05	0.00E+00	9.09E-04	4.66E-05	0.00E+00	2.72E-04	8.38E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
675	457736	3767525	0.000893	4.58E-05	0.00E+00	8.93E-04	4.58E-05	0.00E+00	2.68E-04	8.23E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
676	457745.1	3767528	0.000877	4.5E-05	0.00E+00	8.77E-04	4.50E-05	0.00E+00	2.63E-04	8.08E-06	0.00E+00	9.95E-05	2.61E-06	0.00E+00
677	457754.3	3767532	0.000861	4.41E-05	0.00E+00	8.61E-04	4.41E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
678	457763.4	3767536	0.000845	4.33E-05	0.00E+00	8.45E-04	4.33E-05	0.00E+00	2.53E-04	7.79E-06	0.00E+00	9.59E-05	2.52E-06	0.00E+00
679	457772.6	3767540	0.00083	4.25E-05	0.00E+00	8.30E-04	4.25E-05	0.00E+00	2.49E-04	7.65E-06	0.00E+00	9.41E-05	2.47E-06	0.00E+00
680	457781.7	3767543	0.000814	4.17E-05	0.00E+00	8.14E-04	4.17E-05	0.00E+00	2.44E-04	7.51E-06	0.00E+00	9.24E-05	2.42E-06	0.00E+00
681	457790.9	3767547	0.000799	4.1E-05	0.00E+00	7.99E-04	4.10E-05	0.00E+00	2.39E-04	7.37E-06	0.00E+00	9.07E-05	2.38E-06	0.00E+00
682	457800.1	3767551	0.000784	4.02E-05	0.00E+00	7.84E-04	4.02E-05	0.00E+00	2.35E-04	7.23E-06	0.00E+00	8.90E-05	2.33E-06	0.00E+00
683	457809.2	3767555	0.000769	3.94E-05	0.00E+00	7.69E-04	3.94E-05	0.00E+00	2.30E-04	7.09E-06	0.00E+00	8.73E-05	2.29E-06	0.00E+00
684	457818.4	3767558	0.000755	3.87E-05	0.00E+00	7.55E-04	3.87E-05	0.00E+00	2.26E-04	6.96E-06	0.00E+00	8.56E-05	2.25E-06	0.00E+00
685	457827.5	3767562	0.000741	3.8E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00
686	457836.7	3767566	0.000727	3.73E-05	0.00E+00	7.27E-04	3.73E-05	0.00E+00	2.18E-04	6.70E-06	0.00E+00	8.25E-05	2.16E-06	0.00E+00
687	457845.8	3767570	0.000713	3.66E-05	0.00E+00	7.13E-04	3.66E-05	0.00E+00	2.14E-04	6.58E-06	0.00E+00	8.09E-05	2.12E-06	0.00E+00
688	457855	3767573	0.0007	3.59E-05	0.00E+00	7.00E-04	3.59E-05	0.00E+00	2.10E-04	6.45E-06	0.00E+00	7.94E-05	2.08E-06	0.00E+00
689	457864.1	3767577	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.80E-05	2.05E-06	0.00E+00
690	457992.2	3767630	0.000542	2.78E-05	0.00E+00	5.42E-04	2.78E-05	0.00E+00	1.62E-04	5.00E-06	0.00E+00	6.15E-05	1.61E-06	0.00E+00
691	458001.4	3767633	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
692	458010.5	3767637	0.000527	2.7E-05	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.86E-06	0.00E+00	5.98E-05	1.57E-06	0.00E+00
693	458019.7	3767641	0.00052	2.67E-05	0.00E+00	5.20E-04	2.67E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.90E-05	1.55E-06	0.00E+00
694	458028.8	3767644	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
695	458038	3767648	0.000506	2.6E-05	0.00E+00	5.06E-04	2.60E-05	0.00E+00	1.52E-04	4.67E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
696	458047.1	3767652	0.0005	2.56E-05	0.00E+00	5.00E-04	2.56E-05	0.00E+00	1.50E-04	4.61E-06	0.00E+00	5.67E-05	1.49E-06	0.00E+00
697	458056.3	3767656	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.61E-05	1.47E-06	0.00E+00
698	458069.3	3767669	0.000492	2.52E-05	0.00E+00	4.92E-04	2.52E-05	0.00E+00	1.47E-04	4.54E-06	0.00E+00	5.58E-05	1.46E-06	0.00E+00
699	458073.2	3767678	0.000496	2.54E-05	0.00E+00	4.96E-04	2.54E-05	0.00E+00	1.49E-04	4.57E-06	0.00E+00	5.63E-05	1.48E-06	0.00E+00
700	458077.1	3767687	0.000501	2.57E-05	0.00E+00	5.01E-04	2.57E-05	0.00E+00	1.50E-04	4.62E-06	0.00E+00	5.68E-05	1.49E-06	0.00E+00
701	458080.9	3767696	0.000506	2.59E-05	0.00E+00	5.06E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.74E-05	1.50E-06	0.00E+00
702	458084.8	3767705	0.000511	2.62E-05	0.00E+00	5.11E-04	2.62E-05	0.00E+00	1.53E-04	4.71E-06	0.00E+00	5.80E-05	1.52E-06	0.00E+00
703	458088.7	3767714	0.000516	2.65E-05	0.00E+00	5.16E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
704	458092.5	3767723	0.000522	2.68E-05	0.00E+00	5.22E-04	2.68E-05	0.00E+00	1.56E-04	4.82E-06	0.00E+00	5.93E-05	1.55E-06	0.00E+00
705	457699.4	3767510	0.000959	4.91E-05	0.00E+00	9.59E-04	4.91E-05	0.00E+00	2.87E-04	8.84E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
706	457689.4	3767510	0.000985	5.05E-05	0.00E+00	9.85E-04	5.05E-05	0.00E+00	2.95E-04	9.08E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
707	457679.5	3767510	0.001012	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.33E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
708	457669.5	3767510	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
709	457659.6	3767510	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.20E-04	9.84E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
710	457649.6	3767510	0.001096	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
711	457639.7	3767510	0.001124	5.76E-05	0.00E+00	1.12E-03	5.76E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
712	457629.7	3767510	0.001153	5.91E-05	0.00E+00	1.15E-03	5.91E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.43E-06	0.00E+00
713	457619.8	3767510	0.001183	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
714	457609.8	3767510	0.001213	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
715	457599.9	3767510	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
716	457589.9	3767510	0.001274	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
717	457580	3767510	0.001304	6.69E-05	0.00E+00	1.30E-03	6.69E-05	0.00E+00	3.91E-04	1.20E-05	0.00E+00	1.48E-04	3.88E-06	0.00E+00
718	457570	3767510	0.001335	6.84E-05	0.00E+00	1.33E-03	6.84E-05	0.00E+00	4.00E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
719	457560.1	3767510	0.001365	7E-05	0.00E+00	1.37E-03	7.00E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
720	457550.1	3767510	0.001395	7.15E-05	0.00E+00	1.40E-03	7.15E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.58E-04	4.15E-06	0.00E+00
721	457540.2	3767510	0.001426	7.31E-05	0.00E+00	1.43E-03	7.31E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
722	457530.3	3767510	0.001455	7.46E-05	0.00E+00	1.46E-03	7.46E-05	0.00E+00	4.36E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
723	457520.3	3767510	0.001485	7.61E-05	0.00E+00	1.48E-03	7.61E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.68E-04	4.42E-06	0.00E+00
724	457510.4	3767510	0.001514	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
725	457500.4	3767510	0.001542	7.91E-05	0.00E+00	1.54E-03	7.91E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00

726	457490.5	3767510	0.00157	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
727	457480.5	3767510	0.001598	8.19E-05	0.00E+00	1.60E-03	8.19E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
728	457470.6	3767510	0.001624	8.33E-05	0.00E+00	1.62E-03	8.33E-05	0.00E+00	4.86E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
729	457460.6	3767510	0.001649	8.46E-05	0.00E+00	1.65E-03	8.46E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.91E-06	0.00E+00
730	457450.7	3767510	0.001674	8.58E-05	0.00E+00	1.67E-03	8.58E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
731	457440.7	3767510	0.001698	8.7E-05	0.00E+00	1.70E-03	8.70E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.93E-04	5.05E-06	0.00E+00
732	457430.8	3767510	0.00172	8.82E-05	0.00E+00	1.72E-03	8.82E-05	0.00E+00	5.15E-04	1.59E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
733	457420.8	3767510	0.001741	8.93E-05	0.00E+00	1.74E-03	8.93E-05	0.00E+00	5.22E-04	1.61E-05	0.00E+00	1.98E-04	5.18E-06	0.00E+00
734	457410.9	3767510	0.001761	9.03E-05	0.00E+00	1.76E-03	9.03E-05	0.00E+00	5.28E-04	1.62E-05	0.00E+00	2.00E-04	5.24E-06	0.00E+00
735	457400.9	3767510	0.00178	9.13E-05	0.00E+00	1.78E-03	9.13E-05	0.00E+00	5.33E-04	1.64E-05	0.00E+00	2.02E-04	5.30E-06	0.00E+00
736	457391	3767510	0.001798	9.22E-05	0.00E+00	1.80E-03	9.22E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.35E-06	0.00E+00
737	457381	3767510	0.001814	9.3E-05	0.00E+00	1.81E-03	9.30E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.40E-06	0.00E+00
738	457371.1	3767510	0.001828	9.37E-05	0.00E+00	1.83E-03	9.37E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.07E-04	5.44E-06	0.00E+00
739	457361.1	3767510	0.001841	9.44E-05	0.00E+00	1.84E-03	9.44E-05	0.00E+00	5.51E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
740	457351.2	3767510	0.001853	9.5E-05	0.00E+00	1.85E-03	9.50E-05	0.00E+00	5.55E-04	1.71E-05	0.00E+00	2.10E-04	5.51E-06	0.00E+00
741	457341.2	3767510	0.001863	9.55E-05	0.00E+00	1.86E-03	9.55E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
742	457331.3	3767510	0.001871	9.59E-05	0.00E+00	1.87E-03	9.59E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
743	457321.3	3767510	0.001877	9.62E-05	0.00E+00	1.88E-03	9.62E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
744	457708.5	3767473	0.000868	4.45E-05	0.00E+00	8.68E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.85E-05	2.58E-06	0.00E+00
745	457717.7	3767477	0.000854	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.87E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
746	457726.8	3767481	0.00084	4.31E-05	0.00E+00	8.40E-04	4.31E-05	0.00E+00	2.52E-04	7.74E-06	0.00E+00	9.53E-05	2.50E-06	0.00E+00
747	457736	3767485	0.000826	4.23E-05	0.00E+00	8.26E-04	4.23E-05	0.00E+00	2.47E-04	7.61E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
748	457745.2	3767488	0.000812	4.16E-05	0.00E+00	8.12E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.21E-05	2.41E-06	0.00E+00
749	457754.3	3767492	0.000798	4.09E-05	0.00E+00	7.98E-04	4.09E-05	0.00E+00	2.39E-04	7.35E-06	0.00E+00	9.05E-05	2.37E-06	0.00E+00
750	457763.5	3767496	0.000784	4.02E-05	0.00E+00	7.84E-04	4.02E-05	0.00E+00	2.35E-04	7.22E-06	0.00E+00	8.89E-05	2.33E-06	0.00E+00
751	457772.7	3767500	0.00077	3.95E-05	0.00E+00	7.70E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
752	457781.8	3767503	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.27E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
753	457791	3767507	0.000743	3.81E-05	0.00E+00	7.43E-04	3.81E-05	0.00E+00	2.23E-04	6.85E-06	0.00E+00	8.43E-05	2.21E-06	0.00E+00
754	457800.2	3767511	0.00073	3.74E-05	0.00E+00	7.30E-04	3.74E-05	0.00E+00	2.19E-04	6.73E-06	0.00E+00	8.28E-05	2.17E-06	0.00E+00
755	457809.3	3767515	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
756	457818.5	3767518	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.99E-05	2.10E-06	0.00E+00
757	457827.7	3767522	0.000692	3.55E-05	0.00E+00	6.92E-04	3.55E-05	0.00E+00	2.07E-04	6.38E-06	0.00E+00	7.85E-05	2.06E-06	0.00E+00
758	457836.8	3767526	0.00068	3.48E-05	0.00E+00	6.80E-04	3.48E-05	0.00E+00	2.04E-04	6.26E-06	0.00E+00	7.71E-05	2.02E-06	0.00E+00
759	457846	3767530	0.000667	3.42E-05	0.00E+00	6.67E-04	3.42E-05	0.00E+00	2.00E-04	6.15E-06	0.00E+00	7.57E-05	1.99E-06	0.00E+00
760	457855.2	3767533	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
761	457864.3	3767537	0.000644	3.3E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00
762	457873.5	3767541	0.000633	3.24E-05	0.00E+00	6.33E-04	3.24E-05	0.00E+00	1.90E-04	5.83E-06	0.00E+00	7.18E-05	1.88E-06	0.00E+00
763	457882.7	3767545	0.000622	3.19E-05	0.00E+00	6.22E-04	3.19E-05	0.00E+00	1.86E-04	5.73E-06	0.00E+00	7.05E-05	1.85E-06	0.00E+00
764	457891.9	3767548	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.63E-06	0.00E+00	6.93E-05	1.82E-06	0.00E+00
765	457901	3767552	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.81E-05	1.79E-06	0.00E+00
766	457910.2	3767556	0.00059	3.03E-05	0.00E+00	5.90E-04	3.03E-05	0.00E+00	1.77E-04	5.44E-06	0.00E+00	6.70E-05	1.76E-06	0.00E+00
767	457919.4	3767560	0.00058	2.97E-05	0.00E+00	5.80E-04	2.97E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.58E-05	1.73E-06	0.00E+00
768	457928.5	3767563	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
769	457937.7	3767567	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
770	457946.9	3767571	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
771	457956	3767575	0.000543	2.79E-05	0.00E+00	5.43E-04	2.79E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
772	457965.2	3767578	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
773	458047.7	3767612	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
774	458056.9	3767616	0.000464	2.38E-05	0.00E+00	4.64E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.26E-05	1.38E-06	0.00E+00
775	458066	3767620	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
776	458075.2	3767624	0.000453	2.32E-05	0.00E+00	4.53E-04	2.32E-05	0.00E+00	1.36E-04	4.17E-06	0.00E+00	5.14E-05	1.35E-06	0.00E+00
777	458084.4	3767627	0.000448	2.29E-05	0.00E+00	4.48E-04	2.29E-05	0.00E+00	1.34E-04	4.13E-06	0.00E+00	5.08E-05	1.33E-06	0.00E+00
778	457699.3	3767470	0.000882	4.52E-05	0.00E+00	8.82E-04	4.52E-05	0.00E+00	2.64E-04	8.13E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
779	457689.4	3767470	0.000905	4.64E-05	0.00E+00	9.05E-04	4.64E-05	0.00E+00	2.71E-04	8.34E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
780	457679.4	3767470	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
781	457669.5	3767470	0.000952	4.88E-05	0.00E+00	9.52E-04	4.88E-05	0.00E+00	2.85E-04	8.78E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
782	457659.5	3767470	0.000977	5.01E-05	0.00E+00	9.77E-04	5.01E-05	0.00E+00	2.93E-04	9.00E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
783	457649.6	3767470	0.001002	5.13E-05	0.00E+00	1.00E-03	5.13E-05	0.00E+00	3.00E-04	9.23E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
784	457639.6	3767470	0.001027	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.46E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
785	457629.7	3767470	0.001052	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.70E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
786	457619.7	3767470	0.001078	5.52E-05	0.00E+00	1.08E-03	5.52E-05	0.00E+00	3.23E-04	9.93E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
787	457609.8	3767470	0.001104	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.28E-06	0.00E+00
788	457599.8	3767470	0.00113	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
789	457589.9	3767470	0.001156	5.93E-05	0.00E+00	1.16E-03	5.93E-05	0.00E+00	3.46E-04	1.07E-05	0.00E+00	1.31E-04	3.44E-06	0.00E+00
790	457579.9	3767470	0.001182	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
791	457570	3767470	0.001209	6.2E-05	0.00E+00	1.21E-03	6.20E-05	0.00E+00	3.62E-04	1.11E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
792	457560	3767470	0.001235	6.33E-05	0.00E+00	1.24E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
793	457550.1	3767470	0.001262	6.47E-05	0.00E+00	1.26E-03	6.47E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
794	457540.1	3767470	0.001288	6.6E-05	0.00E+00	1.29E-03	6.60E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.83E-06	0.00E+00
795	457530.2	3767470	0.001314	6.74E-05	0.00E+00	1.31E-03	6.74E-05	0.00E+00	3.94E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
796	457520.2	3767470	0.00134	6.87E-05	0.00E+00	1.34E-03	6.87E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.99E-06	0.00E+00
797	457510.3	3767470	0.001365	7E-05	0.00E+00	1.36E-03	7.00E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
798	457500.3	3767470	0.00139	7.13E-05	0.00E+00	1.39E-03	7.13E-05	0.00E+00	4.16E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
799	457490.4	3767470	0.001414	7.25E-05	0.00E+00	1.41E-03	7.25E-05	0.00E+00	4.24E-04	1.30E-05	0.00E+00	1.60E-04	4.21E-06	0.00E+00
800	457480.4	3767470	0.001438	7.37E-05	0.00E+00	1.44E-03	7.37E-05	0.00E+00	4.31E-04	1.33E-05	0.00E+00	1.63E-04	4.28E-06	0.00E+00
801	457470.5	3767470	0.001462	7.49E-05	0.00E+00	1.46E-03	7.49E-05	0.00E+00	4.38E-04	1.35E-05	0.00E+00	1.66E-04	4.35E-06	0.00E+00
802	457460.5	3767470	0.001484	7.61E-05	0.00E+00	1.48E-03	7.61E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.68E-04	4.42E-06	0.00E+00
803	457450.6	3767470	0.001506	7.72E-05	0.00E+00	1.51E-03	7.72E-05	0.00E+00	4.51E-04	1.39E-05	0.00E+00	1.71E-04	4.48E-06	0.00E+00
804	457440.6	3767470	0.001527	7.83E-05	0.00E+00	1.53E-03	7.83E-05	0.00E+00	4.57E-04	1.41E-05	0.00E+00	1.73E-04	4.54E-06	0.00E+00
805	457430.7	3767470	0.001548	7.93E-05	0.00E+00	1.55E-03	7.93E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
806	457420.8	3767470	0.001567	8.03E-05	0.00E+00	1.57E-03	8.03E-05	0.00E+00	4.69E-04	1.44E-05	0.00E+00	1.78E-04	4.66E-06	0.00E+00
807	457410.8	3767470	0.001585	8.13E-05	0.00E+00	1.59E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
808	457400.9	3767470	0.001603	8.22E-05	0.00E+00	1.60E-03	8.22E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
809	457390.9	3767470	0.001619	8.3E-05	0.00E+00	1.62E-03	8.30E-05	0.00E+00	4.85E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
810	457381	3767470	0.001634	8.38E-05	0.00E+00	1.63E-03	8.38E-05	0.00E+00	4.89E-04	1.51E-05	0.00E+00	1.85E-04	4.86E-06	0.00E+00
811	457371	3767470	0.001648	8.45E-05	0.00E+00	1.65E-03	8.45E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.90E-06	0.00E+00
812	457361.1	3767470	0.001661	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
813	457351.1	3767470	0.001672	8.57E-05	0.00E+00	1.67E-03	8.57E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
814	457341.2	3767470	0.001682	8.62E-05	0.00E+00	1.68E-03	8.62E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
815	457331.2	3767470	0.001691	8.67E-05	0.00E+00	1.69E-03	8.67E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
816	457321.3	3767470	0.001698	8.71E-05	0.00E+00	1.70E-03	8.71E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.05E-06	0.00E+00

817	457745.2	3767448	0.000754	3.87E-05	0.00E+00	7.54E-04	3.87E-05	0.00E+00	2.26E-04	6.95E-06	0.00E+00	8.55E-05	2.24E-06	0.00E+00
818	457754.4	3767452	0.000742	3.8E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
819	457763.5	3767456	0.00073	3.74E-05	0.00E+00	7.30E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.28E-05	2.17E-06	0.00E+00
820	457772.7	3767460	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
821	457781.9	3767463	0.000705	3.62E-05	0.00E+00	7.05E-04	3.62E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
822	457791.1	3767467	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.87E-05	2.06E-06	0.00E+00
823	457800.3	3767471	0.000682	3.5E-05	0.00E+00	6.82E-04	3.50E-05	0.00E+00	2.04E-04	6.29E-06	0.00E+00	7.74E-05	2.03E-06	0.00E+00
824	457809.4	3767475	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	1.99E-06	0.00E+00
825	457818.6	3767478	0.000659	3.38E-05	0.00E+00	6.59E-04	3.38E-05	0.00E+00	1.97E-04	6.08E-06	0.00E+00	7.48E-05	1.96E-06	0.00E+00
826	457827.8	3767482	0.000648	3.32E-05	0.00E+00	6.48E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
827	457837	3767486	0.000637	3.27E-05	0.00E+00	6.37E-04	3.27E-05	0.00E+00	1.91E-04	5.87E-06	0.00E+00	7.23E-05	1.90E-06	0.00E+00
828	457846.2	3767490	0.000626	3.21E-05	0.00E+00	6.26E-04	3.21E-05	0.00E+00	1.88E-04	5.77E-06	0.00E+00	7.11E-05	1.86E-06	0.00E+00
829	457855.4	3767494	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.68E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
830	457864.5	3767497	0.000605	3.1E-05	0.00E+00	6.05E-04	3.10E-05	0.00E+00	1.81E-04	5.58E-06	0.00E+00	6.87E-05	1.80E-06	0.00E+00
831	457873.7	3767501	0.000595	3.05E-05	0.00E+00	5.95E-04	3.05E-05	0.00E+00	1.78E-04	5.48E-06	0.00E+00	6.75E-05	1.77E-06	0.00E+00
832	457882.9	3767505	0.000585	3E-05	0.00E+00	5.85E-04	3.00E-05	0.00E+00	1.75E-04	5.39E-06	0.00E+00	6.64E-05	1.74E-06	0.00E+00
833	457892.1	3767509	0.000575	2.95E-05	0.00E+00	5.75E-04	2.95E-05	0.00E+00	1.72E-04	5.30E-06	0.00E+00	6.53E-05	1.71E-06	0.00E+00
834	457901.3	3767512	0.000566	2.9E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.69E-04	5.21E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
835	457910.5	3767516	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.67E-04	5.13E-06	0.00E+00	6.31E-05	1.66E-06	0.00E+00
836	457919.6	3767520	0.000547	2.81E-05	0.00E+00	5.47E-04	2.81E-05	0.00E+00	1.64E-04	5.05E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
837	457928.8	3767524	0.000539	2.76E-05	0.00E+00	5.39E-04	2.76E-05	0.00E+00	1.61E-04	4.96E-06	0.00E+00	6.11E-05	1.60E-06	0.00E+00
838	457938	3767527	0.00053	2.72E-05	0.00E+00	5.30E-04	2.72E-05	0.00E+00	1.59E-04	4.88E-06	0.00E+00	6.01E-05	1.58E-06	0.00E+00
839	457947.2	3767531	0.000521	2.67E-05	0.00E+00	5.21E-04	2.67E-05	0.00E+00	1.56E-04	4.81E-06	0.00E+00	5.92E-05	1.55E-06	0.00E+00
840	457956.4	3767535	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
841	457965.5	3767539	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
842	457974.7	3767542	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
843	457983.9	3767546	0.00049	2.51E-05	0.00E+00	4.90E-04	2.51E-05	0.00E+00	1.47E-04	4.52E-06	0.00E+00	5.56E-05	1.46E-06	0.00E+00
844	457993.1	3767550	0.000483	2.47E-05	0.00E+00	4.83E-04	2.47E-05	0.00E+00	1.45E-04	4.45E-06	0.00E+00	5.48E-05	1.44E-06	0.00E+00
845	458002.3	3767554	0.000476	2.44E-05	0.00E+00	4.76E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.40E-05	1.42E-06	0.00E+00
846	458011.5	3767557	0.000469	2.4E-05	0.00E+00	4.69E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.32E-05	1.39E-06	0.00E+00
847	458020.6	3767561	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.38E-06	0.00E+00
848	458029.8	3767565	0.000456	2.34E-05	0.00E+00	4.56E-04	2.34E-05	0.00E+00	1.37E-04	4.20E-06	0.00E+00	5.17E-05	1.36E-06	0.00E+00
849	458039	3767569	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.14E-06	0.00E+00	5.10E-05	1.34E-06	0.00E+00
850	458048.2	3767572	0.000444	2.27E-05	0.00E+00	4.44E-04	2.27E-05	0.00E+00	1.33E-04	4.09E-06	0.00E+00	5.03E-05	1.32E-06	0.00E+00
851	458057.4	3767576	0.000438	2.25E-05	0.00E+00	4.38E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.97E-05	1.30E-06	0.00E+00
852	457846.3	3767450	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
853	457855.5	3767454	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.74E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
854	457864.7	3767457	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
855	457873.9	3767461	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.36E-05	1.67E-06	0.00E+00
856	457883.1	3767465	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
857	457892.3	3767469	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
858	457901.5	3767472	0.000534	2.74E-05	0.00E+00	5.34E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.06E-05	1.59E-06	0.00E+00
859	457910.7	3767476	0.000526	2.7E-05	0.00E+00	5.26E-04	2.70E-05	0.00E+00	1.57E-04	4.85E-06	0.00E+00	5.97E-05	1.56E-06	0.00E+00
860	457919.9	3767480	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
861	457929.1	3767484	0.000509	2.61E-05	0.00E+00	5.09E-04	2.61E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
862	457938.3	3767487	0.000501	2.57E-05	0.00E+00	5.01E-04	2.57E-05	0.00E+00	1.50E-04	4.62E-06	0.00E+00	5.69E-05	1.49E-06	0.00E+00
863	457947.5	3767491	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
864	457956.7	3767495	0.000486	2.49E-05	0.00E+00	4.86E-04	2.49E-05	0.00E+00	1.46E-04	4.48E-06	0.00E+00	5.52E-05	1.45E-06	0.00E+00
865	457965.8	3767499	0.000479	2.45E-05	0.00E+00	4.79E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
866	457975	3767503	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.35E-05	1.40E-06	0.00E+00
867	457984.2	3767506	0.000465	2.38E-05	0.00E+00	4.65E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.27E-05	1.38E-06	0.00E+00
868	457993.4	3767510	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.19E-05	1.36E-06	0.00E+00
869	458002.6	3767514	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
870	458011.8	3767518	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.05E-05	1.32E-06	0.00E+00
871	458021	3767521	0.000438	2.25E-05	0.00E+00	4.38E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.97E-05	1.30E-06	0.00E+00
872	458030.2	3767525	0.000432	2.22E-05	0.00E+00	4.32E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.91E-05	1.29E-06	0.00E+00
873	458039.4	3767529	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.93E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
874	458048.6	3767533	0.000421	2.16E-05	0.00E+00	4.21E-04	2.16E-05	0.00E+00	1.26E-04	3.88E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
875	458057.8	3767536	0.000415	2.13E-05	0.00E+00	4.15E-04	2.13E-05	0.00E+00	1.24E-04	3.83E-06	0.00E+00	4.71E-05	1.24E-06	0.00E+00
876	458067	3767540	0.00041	2.1E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
877	458076.2	3767544	0.000405	2.08E-05	0.00E+00	4.05E-04	2.08E-05	0.00E+00	1.21E-04	3.73E-06	0.00E+00	4.59E-05	1.20E-06	0.00E+00
878	458085.4	3767548	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
879	458094.6	3767551	0.000395	2.03E-05	0.00E+00	3.95E-04	2.03E-05	0.00E+00	1.18E-04	3.64E-06	0.00E+00	4.48E-05	1.18E-06	0.00E+00
880	458122.2	3767563	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.14E-06	0.00E+00
881	458131.4	3767567	0.000377	1.94E-05	0.00E+00	3.77E-04	1.94E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
882	458140.5	3767570	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
883	457947.7	3767451	0.000469	2.4E-05	0.00E+00	4.69E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.32E-05	1.39E-06	0.00E+00
884	457956.9	3767455	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00
885	457966.1	3767459	0.000455	2.33E-05	0.00E+00	4.55E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
886	457975.3	3767463	0.000448	2.3E-05	0.00E+00	4.48E-04	2.30E-05	0.00E+00	1.34E-04	4.13E-06	0.00E+00	5.08E-05	1.33E-06	0.00E+00
887	457984.5	3767466	0.000442	2.26E-05	0.00E+00	4.42E-04	2.26E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
888	457993.7	3767470	0.000435	2.23E-05	0.00E+00	4.35E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
889	458002.9	3767474	0.000429	2.2E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
890	458012.1	3767478	0.000423	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
891	458021.3	3767482	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.85E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
892	458030.5	3767485	0.000411	2.11E-05	0.00E+00	4.11E-04	2.11E-05	0.00E+00	1.23E-04	3.79E-06	0.00E+00	4.67E-05	1.22E-06	0.00E+00
893	458039.8	3767489	0.000406	2.08E-05	0.00E+00	4.06E-04	2.08E-05	0.00E+00	1.22E-04	3.74E-06	0.00E+00	4.60E-05	1.21E-06	0.00E+00
894	458049	3767493	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
895	458058.2	3767497	0.000395	2.03E-05	0.00E+00	3.95E-04	2.03E-05	0.00E+00	1.18E-04	3.64E-06	0.00E+00	4.48E-05	1.18E-06	0.00E+00
896	458067.4	3767500	0.00039	2E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
897	458076.6	3767504	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.15E-06	0.00E+00
898	458085.8	3767508	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
899	458095	3767512	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
900	458122.6	3767523	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
901	458131.8	3767527	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.07E-04	3.31E-06	0.00E+00	4.07E-05	1.07E-06	0.00E+00
902	458141	3767531	0.000355	1.82E-05	0.00E+00	3.55E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.02E-05	1.06E-06	0.00E+00
903	458150.2	3767534	0.000351	1.8E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
904	458159.4	3767538	0.000347	1.78E-05	0.00E+00	3.47E-04	1.78E-05	0.00E+00	1.04E-04	3.20E-06	0.00E+00	3.94E-05	1.03E-06	0.00E+00
905	458168.6	3767542	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
906	458181.7	3767555	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
907	458185.6	3767564	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00

908	458189.5	3767573	0.000346	1.78E-05	0.00E+00	3.46E-04	1.78E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.93E-05	1.03E-06	0.00E+00
909	457708.1	3767313	0.00065	3.33E-05	0.00E+00	6.50E-04	3.33E-05	0.00E+00	1.95E-04	5.99E-06	0.00E+00	7.38E-05	1.93E-06	0.00E+00
910	457717.2	3767317	0.000642	3.29E-05	0.00E+00	6.42E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.28E-05	1.91E-06	0.00E+00
911	457726.2	3767321	0.000633	3.25E-05	0.00E+00	6.33E-04	3.25E-05	0.00E+00	1.90E-04	5.84E-06	0.00E+00	7.18E-05	1.88E-06	0.00E+00
912	457735.3	3767324	0.000625	3.2E-05	0.00E+00	6.25E-04	3.20E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.09E-05	1.86E-06	0.00E+00
913	457744.3	3767328	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
914	457753.4	3767332	0.000608	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
915	457762.4	3767336	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
916	457771.5	3767339	0.000591	3.03E-05	0.00E+00	5.91E-04	3.03E-05	0.00E+00	1.77E-04	5.45E-06	0.00E+00	6.70E-05	1.76E-06	0.00E+00
917	458052.1	3767454	0.000381	1.95E-05	0.00E+00	3.81E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
918	458061.1	3767458	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
919	458070.2	3767462	0.000371	1.9E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
920	458079.2	3767465	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.16E-05	1.09E-06	0.00E+00
921	458088.3	3767469	0.000362	1.86E-05	0.00E+00	3.62E-04	1.86E-05	0.00E+00	1.08E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
922	458097.3	3767473	0.000358	1.83E-05	0.00E+00	3.58E-04	1.83E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.06E-06	0.00E+00
923	458124.5	3767484	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
924	458133.5	3767487	0.000341	1.75E-05	0.00E+00	3.41E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.87E-05	1.02E-06	0.00E+00
925	458142.6	3767491	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.00E-06	0.00E+00
926	458151.6	3767495	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.94E-07	0.00E+00
927	458160.7	3767499	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.90E-05	3.05E-06	0.00E+00	3.75E-05	9.83E-07	0.00E+00
928	458169.7	3767502	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.80E-05	3.01E-06	0.00E+00	3.71E-05	9.73E-07	0.00E+00
929	458178.8	3767506	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.70E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
930	458187.8	3767510	0.000321	1.64E-05	0.00E+00	3.21E-04	1.64E-05	0.00E+00	9.60E-05	2.95E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
931	458196.9	3767513	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.51E-05	2.93E-06	0.00E+00	3.60E-05	9.45E-07	0.00E+00
932	458209.8	3767526	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.47E-05	2.91E-06	0.00E+00	3.59E-05	9.40E-07	0.00E+00
933	458213.6	3767535	0.000318	1.63E-05	0.00E+00	3.18E-04	1.63E-05	0.00E+00	9.52E-05	2.93E-06	0.00E+00	3.60E-05	9.45E-07	0.00E+00
934	458217.4	3767544	0.00032	1.64E-05	0.00E+00	3.20E-04	1.64E-05	0.00E+00	9.57E-05	2.95E-06	0.00E+00	3.63E-05	9.51E-07	0.00E+00
935	458221.2	3767553	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.63E-05	2.96E-06	0.00E+00	3.65E-05	9.57E-07	0.00E+00
936	458225.1	3767562	0.000323	1.66E-05	0.00E+00	3.23E-04	1.66E-05	0.00E+00	9.69E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
937	458228.9	3767571	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.75E-05	3.00E-06	0.00E+00	3.69E-05	9.69E-07	0.00E+00
938	457699.1	3767310	0.000659	3.38E-05	0.00E+00	6.59E-04	3.38E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
939	457689.1	3767310	0.000673	3.45E-05	0.00E+00	6.73E-04	3.45E-05	0.00E+00	2.01E-04	6.20E-06	0.00E+00	7.63E-05	2.00E-06	0.00E+00
940	457679.2	3767310	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.33E-06	0.00E+00	7.79E-05	2.04E-06	0.00E+00
941	457669.2	3767310	0.000701	3.59E-05	0.00E+00	7.01E-04	3.59E-05	0.00E+00	2.10E-04	6.46E-06	0.00E+00	7.96E-05	2.09E-06	0.00E+00
942	457659.3	3767310	0.000716	3.67E-05	0.00E+00	7.16E-04	3.67E-05	0.00E+00	2.14E-04	6.60E-06	0.00E+00	8.12E-05	2.13E-06	0.00E+00
943	457649.3	3767310	0.000731	3.75E-05	0.00E+00	7.31E-04	3.75E-05	0.00E+00	2.19E-04	6.73E-06	0.00E+00	8.29E-05	2.17E-06	0.00E+00
944	457639.4	3767310	0.000746	3.82E-05	0.00E+00	7.46E-04	3.82E-05	0.00E+00	2.23E-04	6.87E-06	0.00E+00	8.46E-05	2.22E-06	0.00E+00
945	457629.4	3767310	0.000761	3.9E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
946	457619.5	3767310	0.000776	3.98E-05	0.00E+00	7.76E-04	3.98E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
947	457609.5	3767310	0.000791	4.06E-05	0.00E+00	7.91E-04	4.06E-05	0.00E+00	2.37E-04	7.30E-06	0.00E+00	8.98E-05	2.36E-06	0.00E+00
948	457599.6	3767310	0.000807	4.14E-05	0.00E+00	8.07E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
949	457589.6	3767310	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
950	457579.7	3767310	0.000839	4.3E-05	0.00E+00	8.39E-04	4.30E-05	0.00E+00	2.51E-04	7.73E-06	0.00E+00	9.51E-05	2.50E-06	0.00E+00
951	457569.7	3767310	0.000854	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.88E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
952	457559.8	3767310	0.00087	4.46E-05	0.00E+00	8.70E-04	4.46E-05	0.00E+00	2.61E-04	8.02E-06	0.00E+00	9.87E-05	2.59E-06	0.00E+00
953	457549.8	3767310	0.000886	4.54E-05	0.00E+00	8.86E-04	4.54E-05	0.00E+00	2.65E-04	8.17E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
954	457539.9	3767310	0.000902	4.62E-05	0.00E+00	9.02E-04	4.62E-05	0.00E+00	2.70E-04	8.32E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
955	457529.9	3767310	0.000918	4.71E-05	0.00E+00	9.18E-04	4.71E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
956	457520	3767310	0.000934	4.79E-05	0.00E+00	9.34E-04	4.79E-05	0.00E+00	2.80E-04	8.61E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
957	457510	3767310	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
958	457500.1	3767310	0.000964	4.94E-05	0.00E+00	9.64E-04	4.94E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
959	457490.1	3767310	0.00098	5.02E-05	0.00E+00	9.80E-04	5.02E-05	0.00E+00	2.93E-04	9.03E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
960	457480.2	3767310	0.000995	5.1E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
961	457470.2	3767310	0.001009	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.30E-06	0.00E+00	1.15E-04	3.00E-06	0.00E+00
962	457460.3	3767310	0.001024	5.25E-05	0.00E+00	1.02E-03	5.25E-05	0.00E+00	3.07E-04	9.44E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
963	457450.3	3767310	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
964	457440.4	3767310	0.001052	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.70E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
965	457430.4	3767310	0.001066	5.46E-05	0.00E+00	1.07E-03	5.46E-05	0.00E+00	3.19E-04	9.82E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
966	457420.5	3767310	0.001079	5.53E-05	0.00E+00	1.08E-03	5.53E-05	0.00E+00	3.23E-04	9.95E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
967	457410.6	3767310	0.001092	5.6E-05	0.00E+00	1.09E-03	5.60E-05	0.00E+00	3.27E-04	1.01E-05	0.00E+00	1.24E-04	3.25E-06	0.00E+00
968	457400.6	3767310	0.001104	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.29E-06	0.00E+00
969	457390.7	3767310	0.001116	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
970	457380.7	3767310	0.001128	5.78E-05	0.00E+00	1.13E-03	5.78E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
971	457370.8	3767310	0.001138	5.84E-05	0.00E+00	1.14E-03	5.84E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
972	457360.8	3767310	0.001149	5.89E-05	0.00E+00	1.15E-03	5.89E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.42E-06	0.00E+00
973	457350.9	3767310	0.001158	5.94E-05	0.00E+00	1.16E-03	5.94E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.31E-04	3.45E-06	0.00E+00
974	457340.9	3767310	0.001168	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
975	457331	3767310	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
976	457708.1	3767273	0.000609	3.12E-05	0.00E+00	6.09E-04	3.12E-05	0.00E+00	1.82E-04	5.62E-06	0.00E+00	6.91E-05	1.81E-06	0.00E+00
977	457717.1	3767277	0.000602	3.08E-05	0.00E+00	6.02E-04	3.08E-05	0.00E+00	1.80E-04	5.55E-06	0.00E+00	6.83E-05	1.79E-06	0.00E+00
978	457726.2	3767281	0.000594	3.05E-05	0.00E+00	5.94E-04	3.05E-05	0.00E+00	1.78E-04	5.48E-06	0.00E+00	6.74E-05	1.77E-06	0.00E+00
979	457735.3	3767284	0.000586	3.01E-05	0.00E+00	5.86E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.65E-05	1.74E-06	0.00E+00
980	457744.3	3767288	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
981	457753.4	3767292	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.27E-06	0.00E+00	6.48E-05	1.70E-06	0.00E+00
982	457762.5	3767296	0.000564	2.89E-05	0.00E+00	5.64E-04	2.89E-05	0.00E+00	1.69E-04	5.20E-06	0.00E+00	6.40E-05	1.68E-06	0.00E+00
983	457771.6	3767299	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.67E-04	5.13E-06	0.00E+00	6.31E-05	1.65E-06	0.00E+00
984	457780.6	3767303	0.000549	2.81E-05	0.00E+00	5.49E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
985	457789.7	3767307	0.000541	2.77E-05	0.00E+00	5.41E-04	2.77E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
986	457798.8	3767310	0.000534	2.74E-05	0.00E+00	5.34E-04	2.74E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.06E-05	1.59E-06	0.00E+00
987	457807.8	3767314	0.000527	2.7E-05	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.85E-06	0.00E+00	5.97E-05	1.57E-06	0.00E+00
988	457816.9	3767318	0.000519	2.66E-05	0.00E+00	5.19E-04	2.66E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.89E-05	1.55E-06	0.00E+00
989	457826	3767322	0.000512	2.63E-05	0.00E+00	5.12E-04	2.63E-05	0.00E+00	1.53E-04	4.72E-06	0.00E+00	5.81E-05	1.52E-06	0.00E+00
990	457835	3767325	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
991	457844.1	3767329	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
992	457853.2	3767333	0.000491	2.52E-05	0.00E+00	4.91E-04	2.52E-05	0.00E+00	1.47E-04	4.53E-06	0.00E+00	5.57E-05	1.46E-06	0.00E+00
993	457862.2	3767336	0.000484	2.48E-05	0.00E+00	4.84E-04	2.48E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
994	457871.3	3767340	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.42E-05	1.42E-06	0.00E+00
995	458143.4	3767452	0.000323	1.65E-05	0.00E+00	3.23E-04	1.65E-05	0.00E+00	9.66E-05	2.97E-06	0.00E+00	3.66E-05	9.60E-07	0.00E+00
996	458152.4	3767455	0.000319	1.64E-05	0.00E+00	3.19E-04	1.64E-05	0.00E+00	9.56E-05	2.94E-06	0.00E+00	3.62E-05	9.50E-07	0.00E+00
997	458161.5	3767459	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.46E-05	2.91E-06	0.00E+00	3.58E-05	9.40E-07	0.00E+00
998	458170.6	3767463	0.000312	1.6E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.36E-05	2.88E-06	0.00E+00	3.54E-05	9.30E-07	0.00E+00

999	458179.6	3767466	0.000309	1.59E-05	0.00E+00	3.09E-04	1.59E-05	0.00E+00	9.26E-05	2.85E-06	0.00E+00	3.51E-05	9.20E-07	0.00E+00
1000	458188.7	3767470	0.000306	1.57E-05	0.00E+00	3.06E-04	1.57E-05	0.00E+00	9.17E-05	2.82E-06	0.00E+00	3.47E-05	9.11E-07	0.00E+00
1001	458197.8	3767474	0.000303	1.55E-05	0.00E+00	3.03E-04	1.55E-05	0.00E+00	9.08E-05	2.79E-06	0.00E+00	3.44E-05	9.02E-07	0.00E+00
1002	458206.8	3767478	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.99E-05	2.77E-06	0.00E+00	3.40E-05	8.93E-07	0.00E+00
1003	458215.9	3767481	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.90E-05	2.74E-06	0.00E+00	3.37E-05	8.84E-07	0.00E+00
1004	458225	3767485	0.000294	1.51E-05	0.00E+00	2.94E-04	1.51E-05	0.00E+00	8.82E-05	2.71E-06	0.00E+00	3.34E-05	8.76E-07	0.00E+00
1005	458237.9	3767498	0.000293	1.5E-05	0.00E+00	2.93E-04	1.50E-05	0.00E+00	8.78E-05	2.70E-06	0.00E+00	3.33E-05	8.72E-07	0.00E+00
1006	458241.7	3767507	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.82E-05	2.72E-06	0.00E+00	3.34E-05	8.77E-07	0.00E+00
1007	458245.5	3767516	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.87E-05	2.73E-06	0.00E+00	3.36E-05	8.81E-07	0.00E+00
1008	458249.4	3767525	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.92E-05	2.74E-06	0.00E+00	3.38E-05	8.86E-07	0.00E+00
1009	458253.2	3767534	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.97E-05	2.76E-06	0.00E+00	3.40E-05	8.91E-07	0.00E+00
1010	458257	3767543	0.000301	1.55E-05	0.00E+00	3.01E-04	1.55E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.97E-07	0.00E+00
1011	458260.9	3767552	0.000303	1.56E-05	0.00E+00	3.03E-04	1.56E-05	0.00E+00	9.08E-05	2.80E-06	0.00E+00	3.44E-05	9.03E-07	0.00E+00
1012	458264.7	3767561	0.000305	1.57E-05	0.00E+00	3.05E-04	1.57E-05	0.00E+00	9.15E-05	2.81E-06	0.00E+00	3.46E-05	9.09E-07	0.00E+00
1013	458268.5	3767570	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.21E-05	2.84E-06	0.00E+00	3.49E-05	9.15E-07	0.00E+00
1014	457699	3767270	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	7.00E-05	1.83E-06	0.00E+00
1015	457689.1	3767270	0.000629	3.22E-05	0.00E+00	6.29E-04	3.22E-05	0.00E+00	1.88E-04	5.80E-06	0.00E+00	7.14E-05	1.87E-06	0.00E+00
1016	457679.1	3767270	0.000642	3.29E-05	0.00E+00	6.42E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.28E-05	1.91E-06	0.00E+00
1017	457669.2	3767270	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.03E-06	0.00E+00	7.43E-05	1.95E-06	0.00E+00
1018	457659.2	3767270	0.000668	3.42E-05	0.00E+00	6.68E-04	3.42E-05	0.00E+00	2.00E-04	6.15E-06	0.00E+00	7.57E-05	1.99E-06	0.00E+00
1019	457649.3	3767270	0.000681	3.49E-05	0.00E+00	6.81E-04	3.49E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.72E-05	2.03E-06	0.00E+00
1020	457639.3	3767270	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
1021	457629.4	3767270	0.000708	3.63E-05	0.00E+00	7.08E-04	3.63E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.03E-05	2.11E-06	0.00E+00
1022	457619.4	3767270	0.000722	3.7E-05	0.00E+00	7.22E-04	3.70E-05	0.00E+00	2.16E-04	6.65E-06	0.00E+00	8.19E-05	2.15E-06	0.00E+00
1023	457609.5	3767270	0.000735	3.77E-05	0.00E+00	7.35E-04	3.77E-05	0.00E+00	2.20E-04	6.78E-06	0.00E+00	8.34E-05	2.19E-06	0.00E+00
1024	457599.5	3767270	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.91E-06	0.00E+00	8.50E-05	2.23E-06	0.00E+00
1025	457589.6	3767270	0.000763	3.91E-05	0.00E+00	7.63E-04	3.91E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.66E-05	2.27E-06	0.00E+00
1026	457579.6	3767270	0.000777	3.99E-05	0.00E+00	7.77E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.82E-05	2.31E-06	0.00E+00
1027	457569.7	3767270	0.000791	4.06E-05	0.00E+00	7.91E-04	4.06E-05	0.00E+00	2.37E-04	7.30E-06	0.00E+00	8.98E-05	2.36E-06	0.00E+00
1028	457559.7	3767270	0.000806	4.13E-05	0.00E+00	8.06E-04	4.13E-05	0.00E+00	2.41E-04	7.43E-06	0.00E+00	9.14E-05	2.40E-06	0.00E+00
1029	457549.8	3767270	0.00082	4.2E-05	0.00E+00	8.20E-04	4.20E-05	0.00E+00	2.46E-04	7.56E-06	0.00E+00	9.30E-05	2.44E-06	0.00E+00
1030	457539.8	3767270	0.000834	4.28E-05	0.00E+00	8.34E-04	4.28E-05	0.00E+00	2.50E-04	7.69E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
1031	457529.9	3767270	0.000848	4.35E-05	0.00E+00	8.48E-04	4.35E-05	0.00E+00	2.54E-04	7.82E-06	0.00E+00	9.62E-05	2.52E-06	0.00E+00
1032	457519.9	3767270	0.000862	4.42E-05	0.00E+00	8.62E-04	4.42E-05	0.00E+00	2.58E-04	7.95E-06	0.00E+00	9.78E-05	2.57E-06	0.00E+00
1033	457510	3767270	0.000876	4.49E-05	0.00E+00	8.76E-04	4.49E-05	0.00E+00	2.62E-04	8.08E-06	0.00E+00	9.94E-05	2.61E-06	0.00E+00
1034	457500	3767270	0.00089	4.56E-05	0.00E+00	8.90E-04	4.56E-05	0.00E+00	2.67E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
1035	457490.1	3767270	0.000904	4.63E-05	0.00E+00	9.04E-04	4.63E-05	0.00E+00	2.71E-04	8.33E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
1036	457480.1	3767270	0.000917	4.7E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.45E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1037	457470.2	3767270	0.00093	4.77E-05	0.00E+00	9.30E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
1038	457460.2	3767270	0.000943	4.84E-05	0.00E+00	9.43E-04	4.84E-05	0.00E+00	2.83E-04	8.69E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
1039	457450.3	3767270	0.000956	4.9E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
1040	457440.3	3767270	0.000969	4.97E-05	0.00E+00	9.69E-04	4.97E-05	0.00E+00	2.90E-04	8.93E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1041	457430.4	3767270	0.000981	5.03E-05	0.00E+00	9.81E-04	5.03E-05	0.00E+00	2.94E-04	9.05E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
1042	457420.4	3767270	0.000994	5.09E-05	0.00E+00	9.94E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1043	457410.5	3767270	0.001005	5.15E-05	0.00E+00	1.01E-03	5.15E-05	0.00E+00	3.01E-04	9.27E-06	0.00E+00	1.14E-04	2.99E-06	0.00E+00
1044	457400.5	3767270	0.001017	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.05E-04	9.37E-06	0.00E+00	1.15E-04	3.03E-06	0.00E+00
1045	457390.6	3767270	0.001028	5.27E-05	0.00E+00	1.03E-03	5.27E-05	0.00E+00	3.08E-04	9.47E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
1046	457380.6	3767270	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
1047	457370.7	3767270	0.001048	5.37E-05	0.00E+00	1.05E-03	5.37E-05	0.00E+00	3.14E-04	9.66E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
1048	457360.7	3767270	0.001058	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.75E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
1049	457350.8	3767270	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.20E-04	9.84E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
1050	457340.8	3767270	0.001076	5.51E-05	0.00E+00	1.08E-03	5.51E-05	0.00E+00	3.22E-04	9.91E-06	0.00E+00	1.22E-04	3.20E-06	0.00E+00
1051	457330.9	3767270	0.001084	5.56E-05	0.00E+00	1.08E-03	5.56E-05	0.00E+00	3.25E-04	9.99E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
1052	457708	3767233	0.000572	2.93E-05	0.00E+00	5.72E-04	2.93E-05	0.00E+00	1.71E-04	5.27E-06	0.00E+00	6.49E-05	1.70E-06	0.00E+00
1053	457717.1	3767237	0.000565	2.9E-05	0.00E+00	5.65E-04	2.90E-05	0.00E+00	1.69E-04	5.21E-06	0.00E+00	6.41E-05	1.68E-06	0.00E+00
1054	457726.2	3767241	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
1055	457735.3	3767244	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
1056	457744.4	3767248	0.000545	2.79E-05	0.00E+00	5.45E-04	2.79E-05	0.00E+00	1.63E-04	5.02E-06	0.00E+00	6.18E-05	1.62E-06	0.00E+00
1057	457753.4	3767252	0.000538	2.76E-05	0.00E+00	5.38E-04	2.76E-05	0.00E+00	1.61E-04	4.96E-06	0.00E+00	6.10E-05	1.60E-06	0.00E+00
1058	457762.5	3767256	0.000531	2.72E-05	0.00E+00	5.31E-04	2.72E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.03E-05	1.58E-06	0.00E+00
1059	457771.6	3767259	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
1060	457780.7	3767263	0.000518	2.66E-05	0.00E+00	5.18E-04	2.66E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.88E-05	1.54E-06	0.00E+00
1061	457789.8	3767267	0.000511	2.62E-05	0.00E+00	5.11E-04	2.62E-05	0.00E+00	1.53E-04	4.71E-06	0.00E+00	5.80E-05	1.52E-06	0.00E+00
1062	457798.9	3767271	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.72E-05	1.50E-06	0.00E+00
1063	457807.9	3767274	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
1064	457817	3767278	0.000491	2.52E-05	0.00E+00	4.91E-04	2.52E-05	0.00E+00	1.47E-04	4.53E-06	0.00E+00	5.57E-05	1.46E-06	0.00E+00
1065	457826.1	3767282	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
1066	457835.2	3767285	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
1067	457844.3	3767289	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.40E-06	0.00E+00
1068	457853.4	3767293	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.39E-06	0.00E+00
1069	457862.5	3767297	0.000459	2.36E-05	0.00E+00	4.59E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.21E-05	1.37E-06	0.00E+00
1070	457871.5	3767300	0.000453	2.32E-05	0.00E+00	4.53E-04	2.32E-05	0.00E+00	1.36E-04	4.18E-06	0.00E+00	5.14E-05	1.35E-06	0.00E+00
1071	457880.6	3767304	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.08E-05	1.33E-06	0.00E+00
1072	457889.7	3767308	0.000441	2.26E-05	0.00E+00	4.41E-04	2.26E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
1073	457898.8	3767311	0.000436	2.23E-05	0.00E+00	4.36E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
1074	457907.9	3767315	0.00043	2.2E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
1075	457917	3767319	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
1076	457926	3767323	0.000418	2.14E-05	0.00E+00	4.18E-04	2.14E-05	0.00E+00	1.25E-04	3.86E-06	0.00E+00	4.74E-05	1.24E-06	0.00E+00
1077	457935.1	3767326	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.80E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
1078	457944.2	3767330	0.000407	2.09E-05	0.00E+00	4.07E-04	2.09E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
1079	457953.3	3767334	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
1080	457962.4	3767337	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
1081	458244	3767453	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.14E-05	8.23E-07	0.00E+00
1082	458253	3767456	0.000274	1.4E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
1083	458266	3767469	0.000273	1.4E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.51E-06	0.00E+00	3.09E-05	8.12E-07	0.00E+00
1084	458269.8	3767478	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.16E-07	0.00E+00
1085	458273.6	3767487	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.25E-05	2.54E-06	0.00E+00	3.12E-05	8.20E-07	0.00E+00
1086	458277.5	3767496	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
1087	458281.3	3767505	0.000278	1.43E-05	0.00E+00	2.78E-04	1.43E-05	0.00E+00	8.34E-05	2.57E-06	0.00E+00	3.16E-05	8.28E-07	0.00E+00
1088	458285.2	3767514	0.00028	1.44E-05	0.00E+00	2.80E-04	1.44E-05	0.00E+00	8.38E-05	2.58E-06	0.00E+00	3.18E-05	8.33E-07	0.00E+00
1089	458289	3767523	0.000282	1.44E-05	0.00E+00	2.82E-04	1.44E-05	0.00E+00	8.43E-05	2.60E-06	0.00E+00	3.19E-05	8.38E-07	0.00E+00

1090	458292.8	3767532	0.000283	1.45E-05	0.00E+00	2.83E-04	1.45E-05	0.00E+00	8.49E-05	2.61E-06	0.00E+00	3.21E-05	8.43E-07	0.00E+00
1091	458296.7	3767541	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.54E-05	2.63E-06	0.00E+00	3.24E-05	8.49E-07	0.00E+00
1092	458300.5	3767551	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.60E-05	2.65E-06	0.00E+00	3.26E-05	8.55E-07	0.00E+00
1093	458304.4	3767560	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.66E-05	2.67E-06	0.00E+00	3.28E-05	8.61E-07	0.00E+00
1094	458308.2	3767569	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.67E-07	0.00E+00
1095	457698.9	3767230	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
1096	457689	3767230	0.00059	3.03E-05	0.00E+00	5.90E-04	3.03E-05	0.00E+00	1.77E-04	5.44E-06	0.00E+00	6.69E-05	1.76E-06	0.00E+00
1097	457679	3767230	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.82E-05	1.79E-06	0.00E+00
1098	457669.1	3767230	0.000613	3.14E-05	0.00E+00	6.13E-04	3.14E-05	0.00E+00	1.84E-04	5.65E-06	0.00E+00	6.95E-05	1.82E-06	0.00E+00
1099	457659.2	3767230	0.000625	3.2E-05	0.00E+00	6.25E-04	3.20E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.09E-05	1.86E-06	0.00E+00
1100	457649.2	3767230	0.000637	3.26E-05	0.00E+00	6.37E-04	3.26E-05	0.00E+00	1.91E-04	5.87E-06	0.00E+00	7.22E-05	1.89E-06	0.00E+00
1101	457639.3	3767230	0.000649	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.36E-05	1.93E-06	0.00E+00
1102	457629.3	3767230	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
1103	457619.4	3767230	0.000673	3.45E-05	0.00E+00	6.73E-04	3.45E-05	0.00E+00	2.02E-04	6.20E-06	0.00E+00	7.64E-05	2.00E-06	0.00E+00
1104	457609.4	3767230	0.000685	3.51E-05	0.00E+00	6.85E-04	3.51E-05	0.00E+00	2.05E-04	6.32E-06	0.00E+00	7.78E-05	2.04E-06	0.00E+00
1105	457599.5	3767230	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
1106	457589.5	3767230	0.00071	3.64E-05	0.00E+00	7.10E-04	3.64E-05	0.00E+00	2.13E-04	6.55E-06	0.00E+00	8.06E-05	2.11E-06	0.00E+00
1107	457579.6	3767230	0.000723	3.71E-05	0.00E+00	7.23E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.20E-05	2.15E-06	0.00E+00
1108	457569.6	3767230	0.000736	3.77E-05	0.00E+00	7.36E-04	3.77E-05	0.00E+00	2.20E-04	6.78E-06	0.00E+00	8.35E-05	2.19E-06	0.00E+00
1109	457559.7	3767230	0.000748	3.84E-05	0.00E+00	7.48E-04	3.84E-05	0.00E+00	2.24E-04	6.90E-06	0.00E+00	8.49E-05	2.23E-06	0.00E+00
1110	457549.7	3767230	0.000761	3.9E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
1111	457539.8	3767230	0.000773	3.96E-05	0.00E+00	7.73E-04	3.96E-05	0.00E+00	2.32E-04	7.13E-06	0.00E+00	8.77E-05	2.30E-06	0.00E+00
1112	457529.8	3767230	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.92E-05	2.34E-06	0.00E+00
1113	457519.9	3767230	0.000799	4.09E-05	0.00E+00	7.99E-04	4.09E-05	0.00E+00	2.39E-04	7.36E-06	0.00E+00	9.06E-05	2.38E-06	0.00E+00
1114	457509.9	3767230	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.20E-05	2.41E-06	0.00E+00
1115	457500	3767230	0.000824	4.22E-05	0.00E+00	8.24E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
1116	457490	3767230	0.000836	4.29E-05	0.00E+00	8.36E-04	4.29E-05	0.00E+00	2.50E-04	7.71E-06	0.00E+00	9.48E-05	2.49E-06	0.00E+00
1117	457480.1	3767230	0.000848	4.35E-05	0.00E+00	8.48E-04	4.35E-05	0.00E+00	2.54E-04	7.82E-06	0.00E+00	9.62E-05	2.52E-06	0.00E+00
1118	457470.1	3767230	0.00086	4.41E-05	0.00E+00	8.60E-04	4.41E-05	0.00E+00	2.58E-04	7.93E-06	0.00E+00	9.76E-05	2.56E-06	0.00E+00
1119	457460.2	3767230	0.000872	4.47E-05	0.00E+00	8.72E-04	4.47E-05	0.00E+00	2.61E-04	8.04E-06	0.00E+00	9.89E-05	2.59E-06	0.00E+00
1120	457450.2	3767230	0.000884	4.53E-05	0.00E+00	8.84E-04	4.53E-05	0.00E+00	2.65E-04	8.15E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
1121	457440.3	3767230	0.000895	4.59E-05	0.00E+00	8.95E-04	4.59E-05	0.00E+00	2.68E-04	8.25E-06	0.00E+00	1.02E-04	2.66E-06	0.00E+00
1122	457430.3	3767230	0.000907	4.65E-05	0.00E+00	9.07E-04	4.65E-05	0.00E+00	2.72E-04	8.36E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1123	457420.4	3767230	0.000918	4.7E-05	0.00E+00	9.18E-04	4.70E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1124	457410.4	3767230	0.000928	4.76E-05	0.00E+00	9.28E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
1125	457400.5	3767230	0.000939	4.81E-05	0.00E+00	9.39E-04	4.81E-05	0.00E+00	2.81E-04	8.65E-06	0.00E+00	1.07E-04	2.79E-06	0.00E+00
1126	457390.5	3767230	0.000949	4.86E-05	0.00E+00	9.49E-04	4.86E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
1127	457380.6	3767230	0.000959	4.91E-05	0.00E+00	9.59E-04	4.91E-05	0.00E+00	2.87E-04	8.84E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1128	457370.6	3767230	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1129	457360.7	3767230	0.000977	5.01E-05	0.00E+00	9.77E-04	5.01E-05	0.00E+00	2.93E-04	9.01E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
1130	457350.7	3767230	0.000985	5.05E-05	0.00E+00	9.85E-04	5.05E-05	0.00E+00	2.95E-04	9.08E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
1131	457340.8	3767230	0.000994	5.09E-05	0.00E+00	9.94E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1132	457330.8	3767230	0.001001	5.13E-05	0.00E+00	1.00E-03	5.13E-05	0.00E+00	3.00E-04	9.23E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
1133	457277.8	3767568	0.002183	0.000112	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.50E-06	0.00E+00
1134	457286.5	3767565	0.002166	0.000111	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.49E-04	2.00E-05	0.00E+00	2.46E-04	6.45E-06	0.00E+00
1135	457180.9	3767569	0.002042	0.000105	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
1136	457189.7	3767565	0.002045	0.000105	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
1137	457198.5	3767562	0.002045	0.000105	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.13E-04	1.89E-05	0.00E+00	2.32E-04	6.09E-06	0.00E+00
1138	457207.2	3767558	0.002044	0.000105	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
1139	457216	3767554	0.002041	0.000105	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.32E-04	6.07E-06	0.00E+00
1140	457224.8	3767551	0.002037	0.000104	0.00E+00	2.04E-03	1.04E-04	0.00E+00	6.10E-04	1.88E-05	0.00E+00	2.31E-04	6.06E-06	0.00E+00
1141	457233.6	3767547	0.00203	0.000104	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.08E-04	1.87E-05	0.00E+00	2.30E-04	6.04E-06	0.00E+00
1142	457242.3	3767543	0.002022	0.000104	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.86E-05	0.00E+00	2.29E-04	6.02E-06	0.00E+00
1143	457251.1	3767540	0.002013	0.000103	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.03E-04	1.86E-05	0.00E+00	2.28E-04	5.99E-06	0.00E+00
1144	457259.9	3767536	0.002002	0.000103	0.00E+00	2.00E-03	1.03E-04	0.00E+00	5.99E-04	1.85E-05	0.00E+00	2.27E-04	5.96E-06	0.00E+00
1145	457268.7	3767532	0.001989	0.000102	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.96E-04	1.83E-05	0.00E+00	2.26E-04	5.92E-06	0.00E+00
1146	457277.4	3767529	0.001974	0.000101	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
1147	457286.2	3767525	0.001957	0.0001	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.86E-04	1.80E-05	0.00E+00	2.22E-04	5.82E-06	0.00E+00
1148	457091.9	3767566	0.001792	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
1149	457100.7	3767562	0.001807	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
1150	457109.6	3767559	0.001821	9.34E-05	0.00E+00	1.82E-03	9.34E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.07E-04	5.42E-06	0.00E+00
1151	457118.4	3767555	0.001833	9.4E-05	0.00E+00	1.83E-03	9.40E-05	0.00E+00	5.49E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
1152	457127.2	3767551	0.001844	9.46E-05	0.00E+00	1.84E-03	9.46E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
1153	457136	3767548	0.001854	9.5E-05	0.00E+00	1.85E-03	9.50E-05	0.00E+00	5.55E-04	1.71E-05	0.00E+00	2.10E-04	5.52E-06	0.00E+00
1154	457144.8	3767544	0.001862	9.55E-05	0.00E+00	1.86E-03	9.55E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
1155	457153.7	3767540	0.001868	9.58E-05	0.00E+00	1.87E-03	9.58E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
1156	457162.5	3767537	0.001873	9.6E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
1157	457171.3	3767533	0.001875	9.61E-05	0.00E+00	1.88E-03	9.61E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
1158	457180.1	3767529	0.001876	9.62E-05	0.00E+00	1.88E-03	9.62E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
1159	457189	3767525	0.001876	9.62E-05	0.00E+00	1.88E-03	9.62E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
1160	457197.8	3767522	0.001874	9.61E-05	0.00E+00	1.87E-03	9.61E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
1161	457206.6	3767518	0.001871	9.59E-05	0.00E+00	1.87E-03	9.59E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
1162	457215.4	3767514	0.001866	9.56E-05	0.00E+00	1.87E-03	9.56E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.55E-06	0.00E+00
1163	457224.2	3767511	0.001859	9.53E-05	0.00E+00	1.86E-03	9.53E-05	0.00E+00	5.57E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
1164	457233.1	3767507	0.001851	9.49E-05	0.00E+00	1.85E-03	9.49E-05	0.00E+00	5.54E-04	1.71E-05	0.00E+00	2.10E-04	5.51E-06	0.00E+00
1165	457241.9	3767503	0.001842	9.44E-05	0.00E+00	1.84E-03	9.44E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
1166	457250.7	3767500	0.001831	9.39E-05	0.00E+00	1.83E-03	9.39E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.08E-04	5.45E-06	0.00E+00
1167	457259.5	3767496	0.001819	9.33E-05	0.00E+00	1.82E-03	9.33E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
1168	457268.3	3767492	0.001806	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.66E-05	0.00E+00	2.05E-04	5.37E-06	0.00E+00
1169	457277.2	3767489	0.001791	9.18E-05	0.00E+00	1.79E-03	9.18E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
1170	457286	3767485	0.001774	9.1E-05	0.00E+00	1.77E-03	9.10E-05	0.00E+00	5.31E-04	1.64E-05	0.00E+00	2.01E-04	5.28E-06	0.00E+00
1171	456993.4	3767567	0.001493	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00
1172	457002.2	3767563	0.001513	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
1173	457011.1	3767560	0.001532	7.86E-05	0.00E+00	1.53E-03	7.86E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
1174	457020	3767556	0.001551	7.95E-05	0.00E+00	1.55E-03	7.95E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
1175	457028.8	3767552	0.00157	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
1176	457037.7	3767549	0.001588	8.14E-05	0.00E+00	1.59E-03	8.14E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
1177	457046.5	3767545	0.001605	8.23E-05	0.00E+00	1.60E-03	8.23E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
1178	457055.4	3767541	0.001621	8.31E-05	0.00E+00	1.62E-03	8.31E-05	0.00E+00	4.86E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
1179	457064.3	3767538	0.001636	8.39E-05	0.00E+00	1.64E-03	8.39E-05	0.00E+00	4.90E-04	1.51E-05	0.00E+00	1.86E-04	4.87E-06	0.00E+00
1180	457073.1	3767534	0.001651	8.46E-05	0.00E+00	1.65E-03	8.46E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.91E-06	0.00E+00

1181	457082	3767530	0.001665	8.53E-05	0.00E+00		1.66E-03	8.53E-05	0.00E+00		4.99E-04	1.53E-05	0.00E+00		1.89E-04	4.95E-06	0.00E+00
1182	457090.8	3767526	0.001677	8.6E-05	0.00E+00		1.68E-03	8.60E-05	0.00E+00		5.02E-04	1.55E-05	0.00E+00		1.90E-04	4.99E-06	0.00E+00
1183	457099.7	3767523	0.001688	8.65E-05	0.00E+00		1.69E-03	8.65E-05	0.00E+00		5.06E-04	1.56E-05	0.00E+00		1.92E-04	5.02E-06	0.00E+00
1184	457108.6	3767519	0.001698	8.7E-05	0.00E+00		1.70E-03	8.70E-05	0.00E+00		5.08E-04	1.56E-05	0.00E+00		1.93E-04	5.05E-06	0.00E+00
1185	457117.4	3767515	0.001706	8.75E-05	0.00E+00		1.71E-03	8.75E-05	0.00E+00		5.11E-04	1.57E-05	0.00E+00		1.94E-04	5.08E-06	0.00E+00
1186	457126.3	3767512	0.001713	8.78E-05	0.00E+00		1.71E-03	8.78E-05	0.00E+00		5.13E-04	1.58E-05	0.00E+00		1.94E-04	5.10E-06	0.00E+00
1187	457135.1	3767508	0.001719	8.81E-05	0.00E+00		1.72E-03	8.81E-05	0.00E+00		5.15E-04	1.58E-05	0.00E+00		1.95E-04	5.12E-06	0.00E+00
1188	457144	3767504	0.001724	8.84E-05	0.00E+00		1.72E-03	8.84E-05	0.00E+00		5.16E-04	1.59E-05	0.00E+00		1.96E-04	5.13E-06	0.00E+00
1189	457152.9	3767501	0.001727	8.86E-05	0.00E+00		1.73E-03	8.86E-05	0.00E+00		5.17E-04	1.59E-05	0.00E+00		1.96E-04	5.14E-06	0.00E+00
1190	457161.7	3767497	0.001729	8.86E-05	0.00E+00		1.73E-03	8.86E-05	0.00E+00		5.18E-04	1.59E-05	0.00E+00		1.96E-04	5.14E-06	0.00E+00
1191	457170.6	3767493	0.001729	8.86E-05	0.00E+00		1.73E-03	8.86E-05	0.00E+00		5.18E-04	1.59E-05	0.00E+00		1.96E-04	5.14E-06	0.00E+00
1192	457179.4	3767489	0.001728	8.86E-05	0.00E+00		1.73E-03	8.86E-05	0.00E+00		5.17E-04	1.59E-05	0.00E+00		1.96E-04	5.14E-06	0.00E+00
1193	457188.3	3767486	0.001725	8.84E-05	0.00E+00		1.73E-03	8.84E-05	0.00E+00		5.17E-04	1.59E-05	0.00E+00		1.96E-04	5.13E-06	0.00E+00
1194	457197.2	3767482	0.001721	8.82E-05	0.00E+00		1.72E-03	8.82E-05	0.00E+00		5.16E-04	1.59E-05	0.00E+00		1.95E-04	5.12E-06	0.00E+00
1195	457206	3767478	0.001716	8.8E-05	0.00E+00		1.72E-03	8.80E-05	0.00E+00		5.14E-04	1.58E-05	0.00E+00		1.95E-04	5.11E-06	0.00E+00
1196	457214.9	3767475	0.00171	8.77E-05	0.00E+00		1.71E-03	8.77E-05	0.00E+00		5.12E-04	1.58E-05	0.00E+00		1.94E-04	5.09E-06	0.00E+00
1197	457223.7	3767471	0.001703	8.73E-05	0.00E+00		1.70E-03	8.73E-05	0.00E+00		5.10E-04	1.57E-05	0.00E+00		1.93E-04	5.07E-06	0.00E+00
1198	457232.6	3767467	0.001694	8.68E-05	0.00E+00		1.69E-03	8.68E-05	0.00E+00		5.07E-04	1.56E-05	0.00E+00		1.92E-04	5.04E-06	0.00E+00
1199	457241.5	3767464	0.001684	8.63E-05	0.00E+00		1.68E-03	8.63E-05	0.00E+00		5.04E-04	1.55E-05	0.00E+00		1.91E-04	5.01E-06	0.00E+00
1200	457250.3	3767460	0.001673	8.57E-05	0.00E+00		1.67E-03	8.57E-05	0.00E+00		5.01E-04	1.54E-05	0.00E+00		1.90E-04	4.98E-06	0.00E+00
1201	456902.4	3767565	0.001232	6.32E-05	0.00E+00		1.23E-03	6.32E-05	0.00E+00		3.69E-04	1.14E-05	0.00E+00		1.40E-04	3.67E-06	0.00E+00
1202	456911.1	3767562	0.001252	6.42E-05	0.00E+00		1.25E-03	6.42E-05	0.00E+00		3.75E-04	1.15E-05	0.00E+00		1.42E-04	3.73E-06	0.00E+00
1203	456919.8	3767558	0.001271	6.52E-05	0.00E+00		1.27E-03	6.52E-05	0.00E+00		3.81E-04	1.17E-05	0.00E+00		1.44E-04	3.78E-06	0.00E+00
1204	456928.6	3767554	0.001291	6.62E-05	0.00E+00		1.29E-03	6.62E-05	0.00E+00		3.87E-04	1.19E-05	0.00E+00		1.46E-04	3.84E-06	0.00E+00
1205	456937.3	3767551	0.00131	6.72E-05	0.00E+00		1.31E-03	6.72E-05	0.00E+00		3.92E-04	1.21E-05	0.00E+00		1.49E-04	3.90E-06	0.00E+00
1206	456946	3767547	0.001329	6.81E-05	0.00E+00		1.33E-03	6.81E-05	0.00E+00		3.98E-04	1.23E-05	0.00E+00		1.51E-04	3.95E-06	0.00E+00
1207	456954.7	3767543	0.001348	6.91E-05	0.00E+00		1.35E-03	6.91E-05	0.00E+00		4.04E-04	1.24E-05	0.00E+00		1.53E-04	4.01E-06	0.00E+00
1208	456963.5	3767540	0.001366	7E-05	0.00E+00		1.37E-03	7.00E-05	0.00E+00		4.09E-04	1.26E-05	0.00E+00		1.55E-04	4.06E-06	0.00E+00
1209	456972.2	3767536	0.001383	7.09E-05	0.00E+00		1.38E-03	7.09E-05	0.00E+00		4.14E-04	1.28E-05	0.00E+00		1.57E-04	4.12E-06	0.00E+00
1210	456980.9	3767532	0.001401	7.18E-05	0.00E+00		1.40E-03	7.18E-05	0.00E+00		4.19E-04	1.29E-05	0.00E+00		1.59E-04	4.17E-06	0.00E+00
1211	456989.6	3767529	0.001417	7.27E-05	0.00E+00		1.42E-03	7.27E-05	0.00E+00		4.25E-04	1.31E-05	0.00E+00		1.61E-04	4.22E-06	0.00E+00
1212	456998.4	3767525	0.001434	7.35E-05	0.00E+00		1.43E-03	7.35E-05	0.00E+00		4.29E-04	1.32E-05	0.00E+00		1.63E-04	4.27E-06	0.00E+00
1213	457007.1	3767521	0.00145	7.43E-05	0.00E+00		1.45E-03	7.43E-05	0.00E+00		4.34E-04	1.34E-05	0.00E+00		1.64E-04	4.31E-06	0.00E+00
1214	457015.8	3767518	0.001466	7.51E-05	0.00E+00		1.47E-03	7.51E-05	0.00E+00		4.39E-04	1.35E-05	0.00E+00		1.66E-04	4.36E-06	0.00E+00
1215	457024.5	3767514	0.001481	7.59E-05	0.00E+00		1.48E-03	7.59E-05	0.00E+00		4.43E-04	1.36E-05	0.00E+00		1.68E-04	4.41E-06	0.00E+00
1216	457033.3	3767510	0.001495	7.67E-05	0.00E+00		1.50E-03	7.67E-05	0.00E+00		4.48E-04	1.38E-05	0.00E+00		1.70E-04	4.45E-06	0.00E+00
1217	457042	3767507	0.001509	7.73E-05	0.00E+00		1.51E-03	7.73E-05	0.00E+00		4.52E-04	1.39E-05	0.00E+00		1.71E-04	4.49E-06	0.00E+00
1218	457050.7	3767503	0.001522	7.8E-05	0.00E+00		1.52E-03	7.80E-05	0.00E+00		4.56E-04	1.40E-05	0.00E+00		1.73E-04	4.53E-06	0.00E+00
1219	457059.4	3767500	0.001534	7.86E-05	0.00E+00		1.53E-03	7.86E-05	0.00E+00		4.59E-04	1.41E-05	0.00E+00		1.74E-04	4.56E-06	0.00E+00
1220	457068.1	3767496	0.001546	7.92E-05	0.00E+00		1.55E-03	7.92E-05	0.00E+00		4.63E-04	1.42E-05	0.00E+00		1.75E-04	4.60E-06	0.00E+00
1221	457076.9	3767492	0.001557	7.98E-05	0.00E+00		1.56E-03	7.98E-05	0.00E+00		4.66E-04	1.43E-05	0.00E+00		1.77E-04	4.63E-06	0.00E+00
1222	457085.6	3767489	0.001566	8.03E-05	0.00E+00		1.57E-03	8.03E-05	0.00E+00		4.69E-04	1.44E-05	0.00E+00		1.78E-04	4.66E-06	0.00E+00
1223	457094.3	3767485	0.001574	8.07E-05	0.00E+00		1.57E-03	8.07E-05	0.00E+00		4.71E-04	1.45E-05	0.00E+00		1.79E-04	4.68E-06	0.00E+00
1224	457103	3767481	0.001581	8.11E-05	0.00E+00		1.58E-03	8.11E-05	0.00E+00		4.74E-04	1.46E-05	0.00E+00		1.79E-04	4.71E-06	0.00E+00
1225	457111.8	3767478	0.001587	8.14E-05	0.00E+00		1.59E-03	8.14E-05	0.00E+00		4.75E-04	1.46E-05	0.00E+00		1.80E-04	4.72E-06	0.00E+00
1226	457120.5	3767474	0.001592	8.16E-05	0.00E+00		1.59E-03	8.16E-05	0.00E+00		4.77E-04	1.47E-05	0.00E+00		1.81E-04	4.74E-06	0.00E+00
1227	457129.2	3767470	0.001596	8.18E-05	0.00E+00		1.60E-03	8.18E-05	0.00E+00		4.78E-04	1.47E-05	0.00E+00		1.81E-04	4.75E-06	0.00E+00
1228	457137.9	3767467	0.001598	8.19E-05	0.00E+00		1.60E-03	8.19E-05	0.00E+00		4.79E-04	1.47E-05	0.00E+00		1.81E-04	4.75E-06	0.00E+00
1229	457146.7	3767463	0.001599	8.2E-05	0.00E+00		1.60E-03	8.20E-05	0.00E+00		4.79E-04	1.47E-05	0.00E+00		1.81E-04	4.76E-06	0.00E+00
1230	457155.4	3767459	0.001599	8.2E-05	0.00E+00		1.60E-03	8.20E-05	0.00E+00		4.79E-04	1.47E-05	0.00E+00		1.81E-04	4.76E-06	0.00E+00
1231	457164.1	3767456	0.001598	8.19E-05	0.00E+00		1.60E-03	8.19E-05	0.00E+00		4.79E-04	1.47E-05	0.00E+00		1.81E-04	4.76E-06	0.00E+00
1232	457172.8	3767452	0.001596	8.18E-05	0.00E+00		1.60E-03	8.18E-05	0.00E+00		4.78E-04	1.47E-05	0.00E+00		1.81E-04	4.75E-06	0.00E+00
1233	457181.6	3767449	0.001593	8.17E-05	0.00E+00		1.59E-03	8.17E-05	0.00E+00		4.77E-04	1.47E-05	0.00E+00		1.81E-04	4.74E-06	0.00E+00
1234	457190.3	3767445	0.001589	8.15E-05	0.00E+00		1.59E-03	8.15E-05	0.00E+00		4.76E-04	1.46E-05	0.00E+00		1.80E-04	4.73E-06	0.00E+00
1235	457199	3767441	0.001584	8.12E-05	0.00E+00		1.58E-03	8.12E-05	0.00E+00		4.74E-04	1.46E-05	0.00E+00		1.80E-04	4.71E-06	0.00E+00
1236	456835.5	3767560	0.001065	5.46E-05	0.00E+00		1.06E-03	5.46E-05	0.00E+00		3.19E-04	9.82E-06	0.00E+00		1.21E-04	3.17E-06	0.00E+00
1237	456847.9	3767548	0.001087	5.57E-05	0.00E+00		1.09E-03	5.57E-05	0.00E+00		3.25E-04	1.00E-05	0.00E+00		1.23E-04	3.23E-06	0.00E+00
1238	456856.6	3767544	0.001104	5.66E-05	0.00E+00		1.10E-03	5.66E-05	0.00E+00		3.31E-04	1.02E-05	0.00E+00		1.25E-04	3.29E-06	0.00E+00
1239	456865.4	3767541	0.001122	5.75E-05	0.00E+00		1.12E-03	5.75E-05	0.00E+00		3.36E-04	1.03E-05	0.00E+00		1.27E-04	3.34E-06	0.00E+00
1240	456874.1	3767537	0.00114	5.84E-05	0.00E+00		1.14E-03	5.84E-05	0.00E+00		3.41E-04	1.05E-05	0.00E+00		1.29E-04	3.39E-06	0.00E+00
1241	456882.9	3767533	0.001157	5.93E-05	0.00E+00		1.16E-03	5.93E-05	0.00E+00		3.47E-04	1.07E-05	0.00E+00		1.31E-04	3.44E-06	0.00E+00
1242	456891.7	3767530	0.001175	6.02E-05	0.00E+00		1.17E-03	6.02E-05	0.00E+00		3.52E-04	1.08E-05	0.00E+00		1.33E-04	3.50E-06	0.00E+00
1243	456900.4	3767526	0.001192	6.11E-05	0.00E+00		1.19E-03	6.11E-05	0.00E+00		3.57E-04	1.10E-05	0.00E+00		1.35E-04	3.55E-06	0.00E+00
1244	456909.2	3767522	0.00121	6.2E-05	0.00E+00		1.21E-03	6.20E-05	0.00E+00		3.62E-04	1.11E-05	0.00E+00		1.37E-04	3.60E-06	0.00E+00
1245	456918	3767519	0.001227	6.29E-05	0.00E+00		1.23E-03	6.29E-05	0.00E+00		3.67E-04	1.13E-05	0.00E+00		1.39E-04	3.65E-06	0.00E+00
1246	456926.7	3767515	0.001243	6.37E-05	0.00E+00		1.24E-03	6.37E-05	0.00E+00		3.72E-04	1.15E-05	0.00E+00		1.41E-04	3.70E-06	0.00E+00
1247	456935.5	3767511	0.00126	6.46E-05	0.00E+00		1.26E-03	6.46E-05	0.00E+00		3.77E-04	1.16E-05	0.00E+00		1.43E-04	3.75E-06	0.00E+00
1248	456944.2	3767508	0.001276	6.54E-05	0.00E+00		1.28E-03	6.54E-05	0.00E+00		3.82E-04	1.18E-05	0.00E+00		1.45E-04	3.80E-06	0.00E+00
1249	456953	3767504	0.001291	6.62E-05	0.00E+00		1.29E-03	6.62E-05	0.00E+00		3.87E-04	1.19E-05	0.00E+00		1.46E-04	3.84E-06	0.00E+00
1250	456961.8	3767500	0.001306	6.7E-05	0.00E+00		1.31E-03	6.70E-05	0.00E+00		3.91E-04	1.20E-05	0.00E+00		1.48E-04	3.89E-06	0.00E+00
1251	456970.5	3767497	0.001321	6.77E-05	0.00E+00		1.32E-03	6.77E-05	0.00E+00		3.96E-04	1.22E-05	0.00E+00		1.50E-04	3.93E-06	0.00E+00
1252	456979.3	3767493	0.001336	6.85E-05	0.00E+00		1.34E-03	6.85E-05	0.00E+00		4.00E-04	1.23E-05	0.00E+00		1.52E-04	3.98E-06	0.00E+00
1253	456988.1	3767489	0.00135	6.92E-05	0.00E+00		1.35E-03	6.92E-05	0.00E+00		4.04E-04	1.24E-05	0.00E+00		1.53E-04	4.02E-06	0.00E+00
1254	456996.8	3767486	0.001364	6.99E-05	0.00E+00		1.36E-03	6.99E-05	0.00E+00		4.09E-04	1.26E-05	0.00E+00		1.55E-04	4.06E-06	0.00E+00
1255	457005.6	3767482	0.001378	7.06E-05	0.00E+00		1.38E-03	7.06E-05	0.00E+00		4.13E-04	1.27E-05	0.00E+00		1.56E-04	4.10E-06	0.00E+00
1256	457014.4	3767478	0.001391	7.13E-05	0.00E+00		1.39E-03	7.13E-05	0.00E+00		4.17E-04	1.28E-05	0.00E+00		1.58E-04	4.14E-06	0.00E+00
1257	457023.1	3767475	0.001403	7.19E-05	0.00E+00		1.40E-03	7.19E-05	0.00E+00		4.20E-04	1.29E-05	0.00E+00		1.59E-04	4.18E-06	0.00E+00
1258	457031.9	3767471	0.001415	7.25E-05	0.00E+00		1.41E-03	7.25E-05	0.00E+00		4.24E-04	1.30E-05	0.00E+00		1.60E-04	4.21E-06	0.00E+00
1259	457040.6	3767467	0.001425	7.31E-05	0.00E+00		1.43E-03	7.31E-05	0.00E+00		4.27E-04	1.31E-05	0.00E+00		1.62E-04	4.24E-06	0.00E+00
1260	457049.4	3767464	0.001436	7.36E-05	0.00E+00		1.44E-03	7.36E-05	0.00E+00		4.30E-04	1.32E-05	0.00E+00		1.63E-04	4.27E-06	0.00E+00
1261	457058.2	3767460	0.001445	7.41E-05	0.00E+00		1.45E-03	7.41E-05	0.00E+00		4.33E-04	1.33E-05	0.00E+00		1.64E-04	4.30E-06	0.00E+00
1262	457066.9	3767456	0.001453	7.45E-05	0.00E+00		1.45E-03	7.45E-05	0.00E+00		4.35E-04	1.34E-05	0.00E+00		1.65E-04	4.32E-06	0.00E+00
1263	457075.7	3767453	0.00146	7.49E-05	0.00E+00		1.46E-03	7.49E-05	0.00E+00		4.37E-04	1.35E-05	0.00E+00		1.66E-04	4.35E-06	0.00E+00
1264	457084.5	3767449	0.001466	7.52E-05	0.00E+00		1.47E-03	7.52E-05	0.00E+00		4.39E-04	1.35E-05	0.00E+00		1.66E-04	4.36E-06	0.00E+00
1265	457093.2	3767445	0.001472	7.54E-05	0.00E+00		1.47E-03	7.54E-05	0.00E+00		4.41E-04	1.36E-05	0.00E+00		1.67E-04	4.38E-06	0.00E+00
1266	457102	3767442	0.001476	7.57E-05	0.00E+00		1.48E-03	7.57E-05	0.00E+00		4.42E-04	1.36E-05	0.00E+00		1.67E-04	4.39E-06	0.00E+00
1267	456796.3	3767559	0.000979	5.02E-05	0.00E+00		9.79E-04	5.02E-05	0.00E+00		2.93E-04	9.02E-06	0.00E+00		1.11E-04	2.91E-06	0.00E+00
1268	456799.9	3767550	0.000983	5.04E-05	0.00E+00		9.83E-04	5.04E-05	0.00E+00		2.94E-04	9.06E-06	0.00E+00		1.11E-04	2.92E-06	0.00E+00
1269	456803.5	3767541	0.000986	5.06E-05	0.00E+00		9.86E-04	5.06E-05	0.00E+00		2.95E-04	9.09E-06	0.00E+00		1.12E-04	2.93E-06	0.00E+00
1270	456807.1	3767532	0.00099	5.07E-05	0.00E+00		9.90E-04	5.07E-05	0.00E+00		2.96E-04	9.12E-06	0.00E+00		1.12E-04	2.95E-06	0.00E+00
1271	456819.5	3767520	0.001009	5.17E-05	0.00E+00		1.01E-03	5.17E-05	0.00E+00		3.02E-04	9.30E-06	0.00E+00		1.14E-04	3.00E-06	0.00E+00

1272	456828.3	3767516	0.001025	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.45E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
1273	456837.1	3767512	0.001041	5.34E-05	0.00E+00	1.04E-03	5.34E-05	0.00E+00	3.12E-04	9.60E-06	0.00E+00	1.18E-04	3.10E-06	0.00E+00
1274	456845.9	3767509	0.001057	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.74E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
1275	456854.7	3767505	0.001073	5.5E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.89E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
1276	456863.5	3767501	0.001088	5.58E-05	0.00E+00	1.09E-03	5.58E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.24E-06	0.00E+00
1277	456872.3	3767498	0.001104	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.28E-06	0.00E+00
1278	456881.1	3767494	0.001119	5.74E-05	0.00E+00	1.12E-03	5.74E-05	0.00E+00	3.35E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
1279	456889.9	3767490	0.001135	5.82E-05	0.00E+00	1.13E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
1280	456898.7	3767487	0.00115	5.89E-05	0.00E+00	1.15E-03	5.89E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.42E-06	0.00E+00
1281	456907.5	3767483	0.001165	5.97E-05	0.00E+00	1.16E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
1282	456916.3	3767479	0.001179	6.04E-05	0.00E+00	1.18E-03	6.04E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
1283	456925.1	3767476	0.001193	6.12E-05	0.00E+00	1.19E-03	6.12E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
1284	456933.9	3767472	0.001207	6.19E-05	0.00E+00	1.21E-03	6.19E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1285	456942.7	3767468	0.001221	6.26E-05	0.00E+00	1.22E-03	6.26E-05	0.00E+00	3.66E-04	1.13E-05	0.00E+00	1.38E-04	3.63E-06	0.00E+00
1286	456951.5	3767465	0.001234	6.33E-05	0.00E+00	1.23E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
1287	456960.3	3767461	0.001248	6.4E-05	0.00E+00	1.25E-03	6.40E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.71E-06	0.00E+00
1288	456969.1	3767457	0.001261	6.46E-05	0.00E+00	1.26E-03	6.46E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
1289	456977.9	3767454	0.001273	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
1290	456986.7	3767450	0.001285	6.59E-05	0.00E+00	1.28E-03	6.59E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
1291	456995.5	3767446	0.001296	6.65E-05	0.00E+00	1.30E-03	6.65E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.86E-06	0.00E+00
1292	457004.2	3767443	0.001307	6.7E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
1293	457013	3767439	0.001318	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.21E-05	0.00E+00	1.49E-04	3.92E-06	0.00E+00
1294	457268.2	3767332	0.001269	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
1295	457277	3767329	0.001256	6.44E-05	0.00E+00	1.26E-03	6.44E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.43E-04	3.74E-06	0.00E+00
1296	456753.4	3767566	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
1297	456757	3767557	0.000899	4.61E-05	0.00E+00	8.99E-04	4.61E-05	0.00E+00	2.69E-04	8.29E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
1298	456760.6	3767548	0.000904	4.64E-05	0.00E+00	9.04E-04	4.64E-05	0.00E+00	2.71E-04	8.34E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
1299	456764.2	3767540	0.000909	4.66E-05	0.00E+00	9.09E-04	4.66E-05	0.00E+00	2.72E-04	8.38E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1300	456767.8	3767531	0.000913	4.68E-05	0.00E+00	9.13E-04	4.68E-05	0.00E+00	2.73E-04	8.42E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
1301	456771.4	3767522	0.000917	4.7E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.45E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1302	456775	3767513	0.000921	4.72E-05	0.00E+00	9.21E-04	4.72E-05	0.00E+00	2.76E-04	8.49E-06	0.00E+00	1.04E-04	2.74E-06	0.00E+00
1303	456778.7	3767504	0.000924	4.74E-05	0.00E+00	9.24E-04	4.74E-05	0.00E+00	2.77E-04	8.52E-06	0.00E+00	1.05E-04	2.75E-06	0.00E+00
1304	456791.1	3767492	0.000941	4.83E-05	0.00E+00	9.41E-04	4.83E-05	0.00E+00	2.82E-04	8.68E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1305	456799.9	3767488	0.000956	0.000049	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
1306	456808.8	3767484	0.00097	4.97E-05	0.00E+00	9.70E-04	4.97E-05	0.00E+00	2.91E-04	8.94E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
1307	456817.6	3767481	0.000984	5.05E-05	0.00E+00	9.84E-04	5.05E-05	0.00E+00	2.95E-04	9.07E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
1308	456826.4	3767477	0.000999	5.12E-05	0.00E+00	9.99E-04	5.12E-05	0.00E+00	2.99E-04	9.21E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
1309	456835.2	3767473	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.34E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
1310	456844.1	3767469	0.001027	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.08E-04	9.46E-06	0.00E+00	1.16E-04	3.06E-06	0.00E+00
1311	456852.9	3767466	0.001041	5.34E-05	0.00E+00	1.04E-03	5.34E-05	0.00E+00	3.12E-04	9.59E-06	0.00E+00	1.18E-04	3.10E-06	0.00E+00
1312	456861.7	3767462	0.001054	5.41E-05	0.00E+00	1.05E-03	5.41E-05	0.00E+00	3.16E-04	9.72E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
1313	456870.6	3767458	0.001068	5.48E-05	0.00E+00	1.07E-03	5.48E-05	0.00E+00	3.20E-04	9.85E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
1314	456879.4	3767455	0.001082	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.24E-04	9.97E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
1315	456888.2	3767451	0.001095	5.61E-05	0.00E+00	1.09E-03	5.61E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
1316	456897.1	3767447	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
1317	456905.9	3767444	0.00112	5.74E-05	0.00E+00	1.12E-03	5.74E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
1318	456914.7	3767440	0.001133	5.81E-05	0.00E+00	1.13E-03	5.81E-05	0.00E+00	3.39E-04	1.04E-05	0.00E+00	1.29E-04	3.37E-06	0.00E+00
1319	457170.8	3767333	0.001271	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
1320	457179.7	3767329	0.001265	6.48E-05	0.00E+00	1.26E-03	6.48E-05	0.00E+00	3.79E-04	1.17E-05	0.00E+00	1.44E-04	3.76E-06	0.00E+00
1321	457188.5	3767326	0.001258	6.45E-05	0.00E+00	1.26E-03	6.45E-05	0.00E+00	3.77E-04	1.16E-05	0.00E+00	1.43E-04	3.74E-06	0.00E+00
1322	457197.3	3767322	0.001251	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
1323	457206.1	3767318	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
1324	457215	3767314	0.001235	6.33E-05	0.00E+00	1.23E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
1325	457223.8	3767311	0.001226	6.28E-05	0.00E+00	1.23E-03	6.28E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1326	457232.6	3767307	0.001216	6.23E-05	0.00E+00	1.22E-03	6.23E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
1327	457241.5	3767303	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1328	457250.3	3767300	0.001195	6.13E-05	0.00E+00	1.19E-03	6.13E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
1329	457259.1	3767296	0.001184	6.07E-05	0.00E+00	1.18E-03	6.07E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
1330	457268	3767292	0.001172	6.01E-05	0.00E+00	1.17E-03	6.01E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
1331	457276.8	3767289	0.001159	5.94E-05	0.00E+00	1.16E-03	5.94E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.32E-04	3.45E-06	0.00E+00
1332	456714	3767565	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.46E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
1333	456717.6	3767556	0.000828	4.25E-05	0.00E+00	8.28E-04	4.25E-05	0.00E+00	2.48E-04	7.64E-06	0.00E+00	9.40E-05	2.46E-06	0.00E+00
1334	456721.3	3767547	0.000833	4.27E-05	0.00E+00	8.33E-04	4.27E-05	0.00E+00	2.50E-04	7.68E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
1335	456724.9	3767538	0.000838	4.3E-05	0.00E+00	8.38E-04	4.30E-05	0.00E+00	2.51E-04	7.73E-06	0.00E+00	9.51E-05	2.49E-06	0.00E+00
1336	456728.5	3767529	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
1337	456732.1	3767520	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
1338	456735.7	3767512	0.000851	4.36E-05	0.00E+00	8.51E-04	4.36E-05	0.00E+00	2.55E-04	7.84E-06	0.00E+00	9.65E-05	2.53E-06	0.00E+00
1339	456739.4	3767503	0.000854	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.88E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
1340	456743	3767494	0.000858	4.4E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.91E-06	0.00E+00	9.73E-05	2.55E-06	0.00E+00
1341	456746.6	3767485	0.000861	4.41E-05	0.00E+00	8.61E-04	4.41E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
1342	456750.2	3767476	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.80E-05	2.57E-06	0.00E+00
1343	456762.7	3767463	0.00088	4.51E-05	0.00E+00	8.80E-04	4.51E-05	0.00E+00	2.63E-04	8.11E-06	0.00E+00	9.98E-05	2.62E-06	0.00E+00
1344	456771.6	3767460	0.000893	4.58E-05	0.00E+00	8.93E-04	4.58E-05	0.00E+00	2.67E-04	8.23E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
1345	456780.4	3767456	0.000906	4.64E-05	0.00E+00	9.06E-04	4.64E-05	0.00E+00	2.71E-04	8.35E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1346	456789.3	3767452	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1347	456798.1	3767449	0.000932	4.78E-05	0.00E+00	9.32E-04	4.78E-05	0.00E+00	2.79E-04	8.59E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
1348	456807	3767445	0.000945	4.84E-05	0.00E+00	9.45E-04	4.84E-05	0.00E+00	2.83E-04	8.71E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
1349	456815.9	3767441	0.000958	4.91E-05	0.00E+00	9.58E-04	4.91E-05	0.00E+00	2.87E-04	8.83E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1350	456824.7	3767438	0.00097	4.97E-05	0.00E+00	9.70E-04	4.97E-05	0.00E+00	2.91E-04	8.94E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
1351	457081.7	3767330	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1352	457090.5	3767326	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1353	457099.4	3767323	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1354	457108.2	3767319	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1355	457117.1	3767315	0.001205	6.18E-05	0.00E+00	1.20E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1356	457126	3767312	0.001203	6.17E-05	0.00E+00	1.20E-03	6.17E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.58E-06	0.00E+00
1357	457134.8	3767308	0.0012	6.15E-05	0.00E+00	1.20E-03	6.15E-05	0.00E+00	3.59E-04	1.11E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
1358	457143.7	3767304	0.001196	6.13E-05	0.00E+00	1.20E-03	6.13E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
1359	457152.5	3767301	0.001192	6.11E-05	0.00E+00	1.19E-03	6.11E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
1360	457161.4	3767297	0.001187	6.08E-05	0.00E+00	1.19E-03	6.08E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00
1361	457170.3	3767293	0.001181	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
1362	457179.1	3767289	0.001175	6.02E-05	0.00E+00	1.18E-03	6.02E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00

1363	457188	3767286	0.001169	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
1364	457196.8	3767282	0.001162	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
1365	457205.7	3767278	0.001154	5.92E-05	0.00E+00	1.15E-03	5.92E-05	0.00E+00	3.46E-04	1.06E-05	0.00E+00	1.31E-04	3.43E-06	0.00E+00
1366	457214.6	3767275	0.001146	5.87E-05	0.00E+00	1.15E-03	5.87E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
1367	457223.4	3767271	0.001137	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
1368	457232.3	3767267	0.001127	5.78E-05	0.00E+00	1.13E-03	5.78E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
1369	457241.1	3767264	0.001117	5.73E-05	0.00E+00	1.12E-03	5.73E-05	0.00E+00	3.35E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
1370	457250	3767260	0.001107	5.67E-05	0.00E+00	1.11E-03	5.67E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.26E-04	3.29E-06	0.00E+00
1371	457258.9	3767256	0.001096	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
1372	457267.7	3767252	0.001084	5.56E-05	0.00E+00	1.08E-03	5.56E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
1373	457276.6	3767249	0.001073	5.5E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.89E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
1374	456713.9	3767325	0.000754	3.87E-05	0.00E+00	7.54E-04	3.87E-05	0.00E+00	2.26E-04	6.95E-06	0.00E+00	8.56E-05	2.24E-06	0.00E+00
1375	456743.9	3767325	0.000789	4.05E-05	0.00E+00	7.89E-04	4.05E-05	0.00E+00	2.36E-04	7.28E-06	0.00E+00	8.96E-05	2.35E-06	0.00E+00
1376	456773.9	3767325	0.000826	4.23E-05	0.00E+00	8.26E-04	4.23E-05	0.00E+00	2.47E-04	7.61E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
1377	456803.9	3767325	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.97E-06	0.00E+00	9.81E-05	2.57E-06	0.00E+00
1378	456833.9	3767325	0.000903	4.63E-05	0.00E+00	9.03E-04	4.63E-05	0.00E+00	2.71E-04	8.33E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
1379	456863.9	3767325	0.000943	4.83E-05	0.00E+00	9.43E-04	4.83E-05	0.00E+00	2.82E-04	8.69E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
1380	456893.9	3767325	0.000982	5.04E-05	0.00E+00	9.82E-04	5.04E-05	0.00E+00	2.94E-04	9.05E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
1381	456923.9	3767325	0.001021	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.06E-04	9.41E-06	0.00E+00	1.16E-04	3.04E-06	0.00E+00
1382	456953.9	3767325	0.001059	5.43E-05	0.00E+00	1.06E-03	5.43E-05	0.00E+00	3.17E-04	9.76E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
1383	456983.9	3767325	0.001095	5.61E-05	0.00E+00	1.09E-03	5.61E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
1384	457013.9	3767325	0.001129	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
1385	457043.9	3767325	0.00116	5.95E-05	0.00E+00	1.16E-03	5.95E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.32E-04	3.45E-06	0.00E+00
1386	457073.9	3767325	0.001188	6.09E-05	0.00E+00	1.19E-03	6.09E-05	0.00E+00	3.56E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
1387	457103.9	3767325	0.001213	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
1388	457133.9	3767325	0.001234	6.33E-05	0.00E+00	1.23E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
1389	457163.9	3767325	0.001248	6.4E-05	0.00E+00	1.25E-03	6.40E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.71E-06	0.00E+00
1390	457193.9	3767325	0.001257	6.44E-05	0.00E+00	1.26E-03	6.44E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.43E-04	3.74E-06	0.00E+00
1391	457223.9	3767325	0.001259	6.45E-05	0.00E+00	1.26E-03	6.45E-05	0.00E+00	3.77E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
1392	457253.9	3767325	0.001254	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
1393	457283.9	3767325	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
1394	457313.9	3767325	0.001225	6.28E-05	0.00E+00	1.22E-03	6.28E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1395	457343.9	3767325	0.001201	6.16E-05	0.00E+00	1.20E-03	6.16E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
1396	457373.9	3767325	0.001171	6E-05	0.00E+00	1.17E-03	6.00E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
1397	457403.9	3767325	0.001135	5.82E-05	0.00E+00	1.13E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
1398	457433.9	3767325	0.001094	5.61E-05	0.00E+00	1.09E-03	5.61E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
1399	457463.9	3767325	0.00105	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.68E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
1400	457493.9	3767325	0.001004	5.15E-05	0.00E+00	1.00E-03	5.15E-05	0.00E+00	3.01E-04	9.26E-06	0.00E+00	1.14E-04	2.99E-06	0.00E+00
1401	457523.9	3767325	0.000956	4.9E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.85E-06	0.00E+00
1402	457553.9	3767325	0.000906	4.65E-05	0.00E+00	9.06E-04	4.65E-05	0.00E+00	2.71E-04	8.36E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1403	457583.9	3767325	0.000857	4.39E-05	0.00E+00	8.57E-04	4.39E-05	0.00E+00	2.57E-04	7.90E-06	0.00E+00	9.72E-05	2.55E-06	0.00E+00
1404	457613.9	3767325	0.000807	4.14E-05	0.00E+00	8.07E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
1405	457643.9	3767325	0.000759	3.89E-05	0.00E+00	7.59E-04	3.89E-05	0.00E+00	2.27E-04	7.00E-06	0.00E+00	8.61E-05	2.26E-06	0.00E+00
1406	457673.9	3767325	0.000713	3.65E-05	0.00E+00	7.13E-04	3.65E-05	0.00E+00	2.13E-04	6.57E-06	0.00E+00	8.09E-05	2.12E-06	0.00E+00
1407	457703.9	3767325	0.000668	3.43E-05	0.00E+00	6.68E-04	3.43E-05	0.00E+00	2.00E-04	6.16E-06	0.00E+00	7.58E-05	1.99E-06	0.00E+00
1408	457733.9	3767325	0.000627	3.21E-05	0.00E+00	6.27E-04	3.21E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.11E-05	1.86E-06	0.00E+00
1409	457763.9	3767325	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.66E-05	1.75E-06	0.00E+00
1410	457793.9	3767325	0.000551	2.82E-05	0.00E+00	5.51E-04	2.82E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
1411	457823.9	3767325	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
1412	457853.9	3767325	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
1413	457883.9	3767325	0.000456	2.34E-05	0.00E+00	4.56E-04	2.34E-05	0.00E+00	1.37E-04	4.21E-06	0.00E+00	5.18E-05	1.36E-06	0.00E+00
1414	457913.9	3767325	0.000429	2.2E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
1415	457943.9	3767325	0.000405	2.08E-05	0.00E+00	4.05E-04	2.08E-05	0.00E+00	1.21E-04	3.73E-06	0.00E+00	4.59E-05	1.20E-06	0.00E+00
1416	457973.9	3767325	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.34E-05	1.14E-06	0.00E+00
1417	458003.9	3767325	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.33E-06	0.00E+00	4.10E-05	1.08E-06	0.00E+00
1418	458033.9	3767325	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
1419	458063.9	3767325	0.000325	1.66E-05	0.00E+00	3.25E-04	1.66E-05	0.00E+00	9.72E-05	2.99E-06	0.00E+00	3.68E-05	9.66E-07	0.00E+00
1420	458093.9	3767325	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
1421	458123.9	3767325	0.000293	1.5E-05	0.00E+00	2.93E-04	1.50E-05	0.00E+00	8.79E-05	2.70E-06	0.00E+00	3.33E-05	8.73E-07	0.00E+00
1422	458153.9	3767325	0.00028	1.43E-05	0.00E+00	2.80E-04	1.43E-05	0.00E+00	8.37E-05	2.58E-06	0.00E+00	3.17E-05	8.32E-07	0.00E+00
1423	458183.9	3767325	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	7.99E-05	2.46E-06	0.00E+00	3.03E-05	7.94E-07	0.00E+00
1424	456713.9	3767355	0.000766	3.93E-05	0.00E+00	7.66E-04	3.93E-05	0.00E+00	2.30E-04	7.06E-06	0.00E+00	8.69E-05	2.28E-06	0.00E+00
1425	456743.9	3767355	0.000804	4.12E-05	0.00E+00	8.04E-04	4.12E-05	0.00E+00	2.41E-04	7.41E-06	0.00E+00	9.12E-05	2.39E-06	0.00E+00
1426	456773.9	3767355	0.000842	4.32E-05	0.00E+00	8.42E-04	4.32E-05	0.00E+00	2.52E-04	7.76E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
1427	456803.9	3767355	0.000883	4.53E-05	0.00E+00	8.83E-04	4.53E-05	0.00E+00	2.64E-04	8.14E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
1428	456833.9	3767355	0.000925	4.74E-05	0.00E+00	9.25E-04	4.74E-05	0.00E+00	2.77E-04	8.53E-06	0.00E+00	1.05E-04	2.75E-06	0.00E+00
1429	456863.9	3767355	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1430	456893.9	3767355	0.00101	5.18E-05	0.00E+00	1.01E-03	5.18E-05	0.00E+00	3.03E-04	9.31E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
1431	456923.9	3767355	0.001054	5.4E-05	0.00E+00	1.05E-03	5.40E-05	0.00E+00	3.16E-04	9.71E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
1432	456953.9	3767355	0.001097	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
1433	456983.9	3767355	0.001138	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
1434	457013.9	3767355	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
1435	457043.9	3767355	0.001212	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
1436	457073.9	3767355	0.001246	6.39E-05	0.00E+00	1.25E-03	6.39E-05	0.00E+00	3.73E-04	1.15E-05	0.00E+00	1.41E-04	3.71E-06	0.00E+00
1437	457103.9	3767355	0.001276	6.54E-05	0.00E+00	1.28E-03	6.54E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
1438	457133.9	3767355	0.001301	6.67E-05	0.00E+00	1.30E-03	6.67E-05	0.00E+00	3.90E-04	1.20E-05	0.00E+00	1.48E-04	3.87E-06	0.00E+00
1439	457163.9	3767355	0.001319	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
1440	457193.9	3767355	0.001331	6.82E-05	0.00E+00	1.33E-03	6.82E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.96E-06	0.00E+00
1441	457223.9	3767355	0.001335	6.85E-05	0.00E+00	1.34E-03	6.85E-05	0.00E+00	4.00E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
1442	457253.9	3767355	0.001333	6.83E-05	0.00E+00	1.33E-03	6.83E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
1443	457283.9	3767355	0.001324	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
1444	457313.9	3767355	0.001306	6.7E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.91E-04	1.20E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
1445	457343.9	3767355	0.001281	6.57E-05	0.00E+00	1.28E-03	6.57E-05	0.00E+00	3.84E-04	1.18E-05	0.00E+00	1.45E-04	3.81E-06	0.00E+00
1446	457373.9	3767355	0.00125	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
1447	457403.9	3767355	0.001213	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
1448	457433.9	3767355	0.001169	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
1449	457463.9	3767355	0.001122	5.75E-05	0.00E+00	1.12E-03	5.75E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.34E-06	0.00E+00
1450	457493.9	3767355	0.001071	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.87E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
1451	457523.9	3767355	0.001018	5.22E-05	0.00E+00	1.02E-03	5.22E-05	0.00E+00	3.05E-04	9.39E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
1452	457553.9	3767355	0.000964	4.94E-05	0.00E+00	9.64E-04	4.94E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
1453	457583.9	3767355	0.000909	4.66E-05	0.00E+00	9.09E-04	4.66E-05	0.00E+00	2.72E-04	8.38E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00

1454	457613.9	3767355	0.000855	4.39E-05	0.00E+00	8.55E-04	4.39E-05	0.00E+00	2.56E-04	7.89E-06	0.00E+00	9.71E-05	2.55E-06	0.00E+00
1455	457643.9	3767355	0.000803	4.12E-05	0.00E+00	8.03E-04	4.12E-05	0.00E+00	2.40E-04	7.40E-06	0.00E+00	9.11E-05	2.39E-06	0.00E+00
1456	457673.9	3767355	0.000752	3.86E-05	0.00E+00	7.52E-04	3.86E-05	0.00E+00	2.25E-04	6.93E-06	0.00E+00	8.53E-05	2.24E-06	0.00E+00
1457	457703.9	3767355	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.98E-05	2.09E-06	0.00E+00
1458	457733.9	3767355	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
1459	457763.9	3767355	0.000615	3.15E-05	0.00E+00	6.15E-04	3.15E-05	0.00E+00	1.84E-04	5.67E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
1460	457793.9	3767355	0.000576	2.95E-05	0.00E+00	5.76E-04	2.95E-05	0.00E+00	1.72E-04	5.31E-06	0.00E+00	6.53E-05	1.71E-06	0.00E+00
1461	457823.9	3767355	0.000539	2.76E-05	0.00E+00	5.39E-04	2.76E-05	0.00E+00	1.61E-04	4.97E-06	0.00E+00	6.12E-05	1.60E-06	0.00E+00
1462	457853.9	3767355	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
1463	457883.9	3767355	0.000474	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
1464	457913.9	3767355	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.11E-06	0.00E+00	5.05E-05	1.33E-06	0.00E+00
1465	457943.9	3767355	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
1466	457973.9	3767355	0.000395	2.03E-05	0.00E+00	3.95E-04	2.03E-05	0.00E+00	1.18E-04	3.64E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
1467	458003.9	3767355	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
1468	458033.9	3767355	0.000353	1.81E-05	0.00E+00	3.53E-04	1.81E-05	0.00E+00	1.06E-04	3.25E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
1469	458063.9	3767355	0.000335	1.71E-05	0.00E+00	3.35E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.80E-05	9.95E-07	0.00E+00
1470	458093.9	3767355	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.51E-05	2.93E-06	0.00E+00	3.60E-05	9.45E-07	0.00E+00
1471	458123.9	3767355	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.04E-05	2.78E-06	0.00E+00	3.43E-05	8.98E-07	0.00E+00
1472	458153.9	3767355	0.000288	1.47E-05	0.00E+00	2.88E-04	1.47E-05	0.00E+00	8.61E-05	2.65E-06	0.00E+00	3.26E-05	8.56E-07	0.00E+00
1473	458183.9	3767355	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.22E-05	2.53E-06	0.00E+00	3.11E-05	8.17E-07	0.00E+00
1474	456713.9	3767385	0.000778	3.99E-05	0.00E+00	7.78E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.82E-05	2.31E-06	0.00E+00
1475	456743.9	3767385	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.27E-05	2.43E-06	0.00E+00
1476	456773.9	3767385	0.000859	4.4E-05	0.00E+00	8.59E-04	4.40E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.75E-05	2.56E-06	0.00E+00
1477	456803.9	3767385	0.000903	4.63E-05	0.00E+00	9.03E-04	4.63E-05	0.00E+00	2.70E-04	8.32E-06	0.00E+00	1.02E-04	2.69E-06	0.00E+00
1478	456833.9	3767385	0.000947	4.86E-05	0.00E+00	9.47E-04	4.86E-05	0.00E+00	2.84E-04	8.73E-06	0.00E+00	1.07E-04	2.82E-06	0.00E+00
1479	456863.9	3767385	0.000993	5.09E-05	0.00E+00	9.93E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1480	456893.9	3767385	0.00104	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
1481	456923.9	3767385	0.001087	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
1482	456953.9	3767385	0.001134	5.82E-05	0.00E+00	1.13E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
1483	456983.9	3767385	0.001181	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
1484	457013.9	3767385	0.001227	6.29E-05	0.00E+00	1.23E-03	6.29E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1485	457043.9	3767385	0.001269	6.5E-05	0.00E+00	1.27E-03	6.50E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.77E-06	0.00E+00
1486	457073.9	3767385	0.001307	6.7E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
1487	457103.9	3767385	0.001343	6.88E-05	0.00E+00	1.34E-03	6.88E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	4.00E-06	0.00E+00
1488	457133.9	3767385	0.001372	7.03E-05	0.00E+00	1.37E-03	7.03E-05	0.00E+00	4.11E-04	1.26E-05	0.00E+00	1.56E-04	4.08E-06	0.00E+00
1489	457163.9	3767385	0.001395	7.15E-05	0.00E+00	1.39E-03	7.15E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.58E-04	4.15E-06	0.00E+00
1490	457193.9	3767385	0.00141	7.23E-05	0.00E+00	1.41E-03	7.23E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
1491	457223.9	3767385	0.001418	7.27E-05	0.00E+00	1.42E-03	7.27E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.22E-06	0.00E+00
1492	457253.9	3767385	0.001419	7.27E-05	0.00E+00	1.42E-03	7.27E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.22E-06	0.00E+00
1493	457283.9	3767385	0.001411	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
1494	457313.9	3767385	0.001395	7.15E-05	0.00E+00	1.39E-03	7.15E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.58E-04	4.15E-06	0.00E+00
1495	457343.9	3767385	0.00137	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.08E-06	0.00E+00
1496	457373.9	3767385	0.001338	6.86E-05	0.00E+00	1.34E-03	6.86E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
1497	457403.9	3767385	0.001298	6.65E-05	0.00E+00	1.30E-03	6.65E-05	0.00E+00	3.89E-04	1.20E-05	0.00E+00	1.47E-04	3.86E-06	0.00E+00
1498	457433.9	3767385	0.001252	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
1499	457463.9	3767385	0.0012	6.15E-05	0.00E+00	1.20E-03	6.15E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
1500	457493.9	3767385	0.001145	5.87E-05	0.00E+00	1.14E-03	5.87E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
1501	457523.9	3767385	0.001087	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
1502	457553.9	3767385	0.001028	5.27E-05	0.00E+00	1.03E-03	5.27E-05	0.00E+00	3.08E-04	9.47E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
1503	457583.9	3767385	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1504	457613.9	3767385	0.000908	4.66E-05	0.00E+00	9.08E-04	4.66E-05	0.00E+00	2.72E-04	8.37E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1505	457643.9	3767385	0.000851	4.36E-05	0.00E+00	8.51E-04	4.36E-05	0.00E+00	2.55E-04	7.84E-06	0.00E+00	9.65E-05	2.53E-06	0.00E+00
1506	457673.9	3767385	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
1507	457703.9	3767385	0.000742	3.8E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
1508	457733.9	3767385	0.000692	3.55E-05	0.00E+00	6.92E-04	3.55E-05	0.00E+00	2.07E-04	6.38E-06	0.00E+00	7.85E-05	2.06E-06	0.00E+00
1509	457763.9	3767385	0.000646	3.31E-05	0.00E+00	6.46E-04	3.31E-05	0.00E+00	1.93E-04	5.95E-06	0.00E+00	7.33E-05	1.92E-06	0.00E+00
1510	457793.9	3767385	0.000603	3.09E-05	0.00E+00	6.03E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.84E-05	1.79E-06	0.00E+00
1511	457823.9	3767385	0.000563	2.89E-05	0.00E+00	5.63E-04	2.89E-05	0.00E+00	1.69E-04	5.19E-06	0.00E+00	6.39E-05	1.68E-06	0.00E+00
1512	457853.9	3767385	0.000527	0.000027	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.85E-06	0.00E+00	5.98E-05	1.57E-06	0.00E+00
1513	457883.9	3767385	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
1514	457913.9	3767385	0.000463	2.37E-05	0.00E+00	4.63E-04	2.37E-05	0.00E+00	1.39E-04	4.26E-06	0.00E+00	5.25E-05	1.38E-06	0.00E+00
1515	457943.9	3767385	0.000435	2.23E-05	0.00E+00	4.35E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.93E-05	1.29E-06	0.00E+00
1516	457973.9	3767385	0.000409	2.1E-05	0.00E+00	4.09E-04	2.10E-05	0.00E+00	1.23E-04	3.77E-06	0.00E+00	4.64E-05	1.22E-06	0.00E+00
1517	458003.9	3767385	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
1518	458033.9	3767385	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.08E-06	0.00E+00
1519	458063.9	3767385	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.91E-05	1.03E-06	0.00E+00
1520	458093.9	3767385	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.80E-05	3.02E-06	0.00E+00	3.71E-05	9.74E-07	0.00E+00
1521	458123.9	3767385	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.32E-05	2.87E-06	0.00E+00	3.53E-05	9.25E-07	0.00E+00
1522	458153.9	3767385	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.87E-05	2.73E-06	0.00E+00	3.36E-05	8.81E-07	0.00E+00
1523	458183.9	3767385	0.000282	1.45E-05	0.00E+00	2.82E-04	1.45E-05	0.00E+00	8.46E-05	2.60E-06	0.00E+00	3.20E-05	8.40E-07	0.00E+00
1524	456713.9	3767415	0.000788	4.04E-05	0.00E+00	7.88E-04	4.04E-05	0.00E+00	2.36E-04	7.26E-06	0.00E+00	8.94E-05	2.35E-06	0.00E+00
1525	456743.9	3767415	0.000831	4.26E-05	0.00E+00	8.31E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.42E-05	2.47E-06	0.00E+00
1526	456773.9	3767415	0.000875	4.49E-05	0.00E+00	8.75E-04	4.49E-05	0.00E+00	2.62E-04	8.07E-06	0.00E+00	9.93E-05	2.60E-06	0.00E+00
1527	456803.9	3767415	0.000921	4.72E-05	0.00E+00	9.21E-04	4.72E-05	0.00E+00	2.76E-04	8.49E-06	0.00E+00	1.04E-04	2.74E-06	0.00E+00
1528	456833.9	3767415	0.000969	4.97E-05	0.00E+00	9.69E-04	4.97E-05	0.00E+00	2.90E-04	8.93E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1529	456863.9	3767415	0.001019	5.22E-05	0.00E+00	1.02E-03	5.22E-05	0.00E+00	3.05E-04	9.39E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
1530	456893.9	3767415	0.001069	5.48E-05	0.00E+00	1.07E-03	5.48E-05	0.00E+00	3.20E-04	9.86E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
1531	456923.9	3767415	0.00112	5.74E-05	0.00E+00	1.12E-03	5.74E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
1532	456953.9	3767415	0.001172	6.01E-05	0.00E+00	1.17E-03	6.01E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
1533	456983.9	3767415	0.001226	6.28E-05	0.00E+00	1.23E-03	6.28E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1534	457013.9	3767415	0.001278	6.55E-05	0.00E+00	1.28E-03	6.55E-05	0.00E+00	3.83E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
1535	457043.9	3767415	0.001327	6.8E-05	0.00E+00	1.33E-03	6.80E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.51E-04	3.95E-06	0.00E+00
1536	457073.9	3767415	0.001372	7.03E-05	0.00E+00	1.37E-03	7.03E-05	0.00E+00	4.11E-04	1.26E-05	0.00E+00	1.56E-04	4.08E-06	0.00E+00
1537	457103.9	3767415	0.001412	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
1538	457133.9	3767415	0.001448	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.34E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
1539	457163.9	3767415	0.001476	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.67E-04	4.39E-06	0.00E+00
1540	457193.9	3767415	0.001497	7.67E-05	0.00E+00	1.50E-03	7.67E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
1541	457223.9	3767415	0.00151	7.74E-05	0.00E+00	1.51E-03	7.74E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
1542	457253.9	3767415	0.001514	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.40E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
1543	457283.9	3767415	0.001508	7.73E-05	0.00E+00	1.51E-03	7.73E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
1544	457313.9	3767415	0.001493	7.65E-05	0.00E+00	1.49E-03	7.65E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00

1545	457343.9	3767415	0.001469	7.53E-05	0.00E+00	1.47E-03	7.53E-05	0.00E+00	4.40E-04	1.35E-05	0.00E+00	1.67E-04	4.37E-06	0.00E+00
1546	457373.9	3767415	0.001435	7.35E-05	0.00E+00	1.43E-03	7.35E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
1547	457403.9	3767415	0.001393	7.14E-05	0.00E+00	1.39E-03	7.14E-05	0.00E+00	4.17E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
1548	457433.9	3767415	0.001343	6.89E-05	0.00E+00	1.34E-03	6.89E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	4.00E-06	0.00E+00
1549	457463.9	3767415	0.001288	6.6E-05	0.00E+00	1.29E-03	6.60E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.83E-06	0.00E+00
1550	457493.9	3767415	0.001228	6.29E-05	0.00E+00	1.23E-03	6.29E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1551	457523.9	3767415	0.001164	5.97E-05	0.00E+00	1.16E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
1552	457553.9	3767415	0.001098	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
1553	457583.9	3767415	0.001032	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
1554	457613.9	3767415	0.000967	4.96E-05	0.00E+00	9.67E-04	4.96E-05	0.00E+00	2.90E-04	8.91E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1555	457643.9	3767415	0.000903	4.63E-05	0.00E+00	9.03E-04	4.63E-05	0.00E+00	2.71E-04	8.33E-06	0.00E+00	1.02E-04	2.69E-06	0.00E+00
1556	457673.9	3767415	0.000842	4.32E-05	0.00E+00	8.42E-04	4.32E-05	0.00E+00	2.52E-04	7.76E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
1557	457703.9	3767415	0.000784	4.02E-05	0.00E+00	7.84E-04	4.02E-05	0.00E+00	2.35E-04	7.23E-06	0.00E+00	8.90E-05	2.33E-06	0.00E+00
1558	457733.9	3767415	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
1559	457763.9	3767415	0.000678	3.48E-05	0.00E+00	6.78E-04	3.48E-05	0.00E+00	2.03E-04	6.25E-06	0.00E+00	7.70E-05	2.02E-06	0.00E+00
1560	457793.9	3767415	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
1561	457823.9	3767415	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
1562	457853.9	3767415	0.000549	2.82E-05	0.00E+00	5.49E-04	2.82E-05	0.00E+00	1.65E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
1563	457883.9	3767415	0.000514	2.63E-05	0.00E+00	5.14E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
1564	457913.9	3767415	0.000481	2.47E-05	0.00E+00	4.81E-04	2.47E-05	0.00E+00	1.44E-04	4.43E-06	0.00E+00	5.46E-05	1.43E-06	0.00E+00
1565	457943.9	3767415	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
1566	457973.9	3767415	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
1567	458003.9	3767415	0.000399	2.05E-05	0.00E+00	3.99E-04	2.05E-05	0.00E+00	1.20E-04	3.68E-06	0.00E+00	4.53E-05	1.19E-06	0.00E+00
1568	458033.9	3767415	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
1569	458063.9	3767415	0.000356	1.83E-05	0.00E+00	3.56E-04	1.83E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
1570	458093.9	3767415	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.00E-06	0.00E+00
1571	458123.9	3767415	0.000321	1.64E-05	0.00E+00	3.21E-04	1.64E-05	0.00E+00	9.60E-05	2.96E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
1572	458153.9	3767415	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.14E-05	2.81E-06	0.00E+00	3.46E-05	9.08E-07	0.00E+00
1573	458183.9	3767415	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.71E-05	2.68E-06	0.00E+00	3.30E-05	8.66E-07	0.00E+00
1574	456713.9	3767445	0.000799	4.09E-05	0.00E+00	7.99E-04	4.09E-05	0.00E+00	2.39E-04	7.36E-06	0.00E+00	9.06E-05	2.38E-06	0.00E+00
1575	456743.9	3767445	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
1576	456773.9	3767445	0.000889	4.56E-05	0.00E+00	8.89E-04	4.56E-05	0.00E+00	2.66E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
1577	456803.9	3767445	0.000939	4.81E-05	0.00E+00	9.39E-04	4.81E-05	0.00E+00	2.81E-04	8.66E-06	0.00E+00	1.07E-04	2.79E-06	0.00E+00
1578	456833.9	3767445	0.000991	5.08E-05	0.00E+00	9.91E-04	5.08E-05	0.00E+00	2.97E-04	9.13E-06	0.00E+00	1.12E-04	2.95E-06	0.00E+00
1579	456863.9	3767445	0.001044	5.35E-05	0.00E+00	1.04E-03	5.35E-05	0.00E+00	3.13E-04	9.63E-06	0.00E+00	1.18E-04	3.11E-06	0.00E+00
1580	456893.9	3767445	0.001099	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
1581	456923.9	3767445	0.001155	5.92E-05	0.00E+00	1.15E-03	5.92E-05	0.00E+00	3.46E-04	1.06E-05	0.00E+00	1.31E-04	3.44E-06	0.00E+00
1582	456953.9	3767445	0.001212	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
1583	456983.9	3767445	0.001271	6.52E-05	0.00E+00	1.27E-03	6.52E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
1584	457013.9	3767445	0.001329	6.81E-05	0.00E+00	1.33E-03	6.81E-05	0.00E+00	3.98E-04	1.22E-05	0.00E+00	1.51E-04	3.95E-06	0.00E+00
1585	457043.9	3767445	0.001386	7.1E-05	0.00E+00	1.39E-03	7.10E-05	0.00E+00	4.15E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
1586	457073.9	3767445	0.001439	7.37E-05	0.00E+00	1.44E-03	7.37E-05	0.00E+00	4.31E-04	1.33E-05	0.00E+00	1.63E-04	4.28E-06	0.00E+00
1587	457103.9	3767445	0.001486	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.42E-06	0.00E+00
1588	457133.9	3767445	0.001529	7.84E-05	0.00E+00	1.53E-03	7.84E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.73E-04	4.55E-06	0.00E+00
1589	457163.9	3767445	0.001563	8.01E-05	0.00E+00	1.56E-03	8.01E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
1590	457193.9	3767445	0.001591	8.15E-05	0.00E+00	1.59E-03	8.15E-05	0.00E+00	4.76E-04	1.47E-05	0.00E+00	1.80E-04	4.73E-06	0.00E+00
1591	457223.9	3767445	0.001609	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00
1592	457253.9	3767445	0.001617	8.29E-05	0.00E+00	1.62E-03	8.29E-05	0.00E+00	4.84E-04	1.49E-05	0.00E+00	1.83E-04	4.81E-06	0.00E+00
1593	457283.9	3767445	0.001614	8.27E-05	0.00E+00	1.61E-03	8.27E-05	0.00E+00	4.83E-04	1.49E-05	0.00E+00	1.83E-04	4.80E-06	0.00E+00
1594	457313.9	3767445	0.001601	8.21E-05	0.00E+00	1.60E-03	8.21E-05	0.00E+00	4.79E-04	1.48E-05	0.00E+00	1.82E-04	4.76E-06	0.00E+00
1595	457343.9	3767445	0.001577	8.09E-05	0.00E+00	1.58E-03	8.09E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
1596	457373.9	3767445	0.001542	7.91E-05	0.00E+00	1.54E-03	7.91E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
1597	457403.9	3767445	0.001498	7.68E-05	0.00E+00	1.50E-03	7.68E-05	0.00E+00	4.49E-04	1.38E-05	0.00E+00	1.70E-04	4.46E-06	0.00E+00
1598	457433.9	3767445	0.001445	7.41E-05	0.00E+00	1.45E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
1599	457463.9	3767445	0.001385	7.1E-05	0.00E+00	1.39E-03	7.10E-05	0.00E+00	4.15E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
1600	457493.9	3767445	0.00132	6.77E-05	0.00E+00	1.32E-03	6.77E-05	0.00E+00	3.95E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
1601	457523.9	3767445	0.00125	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
1602	457553.9	3767445	0.001177	6.04E-05	0.00E+00	1.18E-03	6.04E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.50E-06	0.00E+00
1603	457583.9	3767445	0.001105	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.29E-06	0.00E+00
1604	457613.9	3767445	0.001033	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
1605	457643.9	3767445	0.000962	4.93E-05	0.00E+00	9.62E-04	4.93E-05	0.00E+00	2.88E-04	8.87E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
1606	457673.9	3767445	0.000894	4.59E-05	0.00E+00	8.94E-04	4.59E-05	0.00E+00	2.68E-04	8.25E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
1607	457703.9	3767445	0.00083	4.26E-05	0.00E+00	8.30E-04	4.26E-05	0.00E+00	2.49E-04	7.65E-06	0.00E+00	9.42E-05	2.47E-06	0.00E+00
1608	457733.9	3767445	0.00077	3.95E-05	0.00E+00	7.70E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
1609	457763.9	3767445	0.000715	3.66E-05	0.00E+00	7.15E-04	3.66E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
1610	457793.9	3767445	0.000663	3.4E-05	0.00E+00	6.63E-04	3.40E-05	0.00E+00	1.99E-04	6.11E-06	0.00E+00	7.53E-05	1.97E-06	0.00E+00
1611	457823.9	3767445	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
1612	457853.9	3767445	0.000574	2.94E-05	0.00E+00	5.74E-04	2.94E-05	0.00E+00	1.72E-04	5.29E-06	0.00E+00	6.51E-05	1.71E-06	0.00E+00
1613	457883.9	3767445	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.94E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
1614	457913.9	3767445	0.0005	2.56E-05	0.00E+00	5.00E-04	2.56E-05	0.00E+00	1.50E-04	4.61E-06	0.00E+00	5.67E-05	1.49E-06	0.00E+00
1615	457943.9	3767445	0.000468	2.4E-05	0.00E+00	4.68E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.31E-05	1.39E-06	0.00E+00
1616	457973.9	3767445	0.00044	2.25E-05	0.00E+00	4.40E-04	2.25E-05	0.00E+00	1.32E-04	4.05E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
1617	458003.9	3767445	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
1618	458033.9	3767445	0.00039	2E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
1619	458063.9	3767445	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
1620	458093.9	3767445	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
1621	458123.9	3767445	0.000331	1.7E-05	0.00E+00	3.31E-04	1.70E-05	0.00E+00	9.91E-05	3.05E-06	0.00E+00	3.75E-05	9.85E-07	0.00E+00
1622	458153.9	3767445	0.000315	1.61E-05	0.00E+00	3.15E-04	1.61E-05	0.00E+00	9.43E-05	2.90E-06	0.00E+00	3.57E-05	9.37E-07	0.00E+00
1623	458183.9	3767445	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.99E-05	2.77E-06	0.00E+00	3.40E-05	8.93E-07	0.00E+00
1624	458034.7	3768826	0.000854	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.88E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
1625	458044.7	3768826	0.000866	4.44E-05	0.00E+00	8.66E-04	4.44E-05	0.00E+00	2.59E-04	7.98E-06	0.00E+00	9.82E-05	2.58E-06	0.00E+00
1626	458054.7	3768826	0.000878	4.5E-05	0.00E+00	8.78E-04	4.50E-05	0.00E+00	2.63E-04	8.09E-06	0.00E+00	9.96E-05	2.61E-06	0.00E+00
1627	458064.7	3768826	0.00089	4.57E-05	0.00E+00	8.90E-04	4.57E-05	0.00E+00	2.67E-04	8.21E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
1628	458074.7	3768826	0.000903	4.63E-05	0.00E+00	9.03E-04	4.63E-05	0.00E+00	2.70E-04	8.32E-06	0.00E+00	1.02E-04	2.69E-06	0.00E+00
1629	458084.7	3768826	0.000915	4.69E-05	0.00E+00	9.15E-04	4.69E-05	0.00E+00	2.74E-04	8.44E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
1630	458094.7	3768826	0.000927	4.75E-05	0.00E+00	9.27E-04	4.75E-05	0.00E+00	2.78E-04	8.55E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
1631	458104.7	3768826	0.000938	4.81E-05	0.00E+00	9.38E-04	4.81E-05	0.00E+00	2.81E-04	8.65E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
1632	458144.7	3768826	0.000981	5.03E-05	0.00E+00	9.81E-04	5.03E-05	0.00E+00	2.94E-04	9.04E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
1633	458154.7	3768826	0.00099	5.08E-05	0.00E+00	9.90E-04	5.08E-05	0.00E+00	2.96E-04	9.13E-06	0.00E+00	1.12E-04	2.95E-06	0.00E+00
1634	458164.7	3768826	0.000999	5.12E-05	0.00E+00	9.99E-04	5.12E-05	0.00E+00	2.99E-04	9.21E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
1635	458174.7	3768826	0.001007	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.01E-04	9.28E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00

1636	458184.7	3768826	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.34E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
1637	458194.7	3768826	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.05E-04	9.40E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
1638	458204.7	3768826	0.001026	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.46E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
1639	458214.7	3768826	0.001033	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
1640	458224.7	3768826	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
1641	458234.7	3768826	0.001045	5.36E-05	0.00E+00	1.04E-03	5.36E-05	0.00E+00	3.13E-04	9.63E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
1642	458034.7	3768836	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
1643	458044.7	3768836	0.000834	4.27E-05	0.00E+00	8.34E-04	4.27E-05	0.00E+00	2.50E-04	7.68E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
1644	458054.7	3768836	0.000846	4.34E-05	0.00E+00	8.46E-04	4.34E-05	0.00E+00	2.53E-04	7.80E-06	0.00E+00	9.60E-05	2.52E-06	0.00E+00
1645	458064.7	3768836	0.000858	4.4E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.91E-06	0.00E+00	9.74E-05	2.55E-06	0.00E+00
1646	458074.7	3768836	0.000871	4.46E-05	0.00E+00	8.71E-04	4.46E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
1647	458084.7	3768836	0.000883	4.53E-05	0.00E+00	8.83E-04	4.53E-05	0.00E+00	2.64E-04	8.14E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
1648	458094.7	3768836	0.000895	4.59E-05	0.00E+00	8.95E-04	4.59E-05	0.00E+00	2.68E-04	8.25E-06	0.00E+00	1.02E-04	2.66E-06	0.00E+00
1649	458104.7	3768836	0.000906	4.65E-05	0.00E+00	9.06E-04	4.65E-05	0.00E+00	2.71E-04	8.35E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1650	458144.7	3768836	0.000948	4.86E-05	0.00E+00	9.48E-04	4.86E-05	0.00E+00	2.84E-04	8.74E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
1651	458154.7	3768836	0.000957	4.91E-05	0.00E+00	9.57E-04	4.91E-05	0.00E+00	2.87E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1652	458164.7	3768836	0.000966	4.95E-05	0.00E+00	9.66E-04	4.95E-05	0.00E+00	2.89E-04	8.90E-06	0.00E+00	1.10E-04	2.87E-06	0.00E+00
1653	458174.7	3768836	0.000974	4.99E-05	0.00E+00	9.74E-04	4.99E-05	0.00E+00	2.92E-04	8.97E-06	0.00E+00	1.10E-04	2.90E-06	0.00E+00
1654	458184.7	3768836	0.000981	5.03E-05	0.00E+00	9.81E-04	5.03E-05	0.00E+00	2.94E-04	9.04E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
1655	458194.7	3768836	0.000988	5.06E-05	0.00E+00	9.88E-04	5.06E-05	0.00E+00	2.96E-04	9.11E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
1656	458204.7	3768836	0.000995	5.1E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1657	458214.7	3768836	0.001002	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.23E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
1658	458224.7	3768836	0.001008	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
1659	458234.7	3768836	0.001014	5.2E-05	0.00E+00	1.01E-03	5.20E-05	0.00E+00	3.04E-04	9.35E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
1660	458034.7	3768846	0.000791	4.06E-05	0.00E+00	7.91E-04	4.06E-05	0.00E+00	2.37E-04	7.29E-06	0.00E+00	8.97E-05	2.35E-06	0.00E+00
1661	458044.7	3768846	0.000803	4.12E-05	0.00E+00	8.03E-04	4.12E-05	0.00E+00	2.41E-04	7.40E-06	0.00E+00	9.11E-05	2.39E-06	0.00E+00
1662	458054.7	3768846	0.000815	4.18E-05	0.00E+00	8.15E-04	4.18E-05	0.00E+00	2.44E-04	7.52E-06	0.00E+00	9.25E-05	2.43E-06	0.00E+00
1663	458064.7	3768846	0.000828	4.24E-05	0.00E+00	8.28E-04	4.24E-05	0.00E+00	2.48E-04	7.63E-06	0.00E+00	9.39E-05	2.46E-06	0.00E+00
1664	458074.7	3768846	0.00084	4.31E-05	0.00E+00	8.40E-04	4.31E-05	0.00E+00	2.52E-04	7.74E-06	0.00E+00	9.53E-05	2.50E-06	0.00E+00
1665	458084.7	3768846	0.000852	4.37E-05	0.00E+00	8.52E-04	4.37E-05	0.00E+00	2.55E-04	7.85E-06	0.00E+00	9.67E-05	2.54E-06	0.00E+00
1666	458094.7	3768846	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.80E-05	2.57E-06	0.00E+00
1667	458104.7	3768846	0.000875	4.49E-05	0.00E+00	8.75E-04	4.49E-05	0.00E+00	2.62E-04	8.07E-06	0.00E+00	9.93E-05	2.60E-06	0.00E+00
1668	458144.7	3768846	0.000916	4.7E-05	0.00E+00	9.16E-04	4.70E-05	0.00E+00	2.75E-04	8.45E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1669	458154.7	3768846	0.000925	4.74E-05	0.00E+00	9.25E-04	4.74E-05	0.00E+00	2.77E-04	8.53E-06	0.00E+00	1.05E-04	2.75E-06	0.00E+00
1670	458164.7	3768846	0.000933	4.78E-05	0.00E+00	9.33E-04	4.78E-05	0.00E+00	2.80E-04	8.60E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
1671	458174.7	3768846	0.000941	4.83E-05	0.00E+00	9.41E-04	4.83E-05	0.00E+00	2.82E-04	8.68E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1672	458184.7	3768846	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
1673	458194.7	3768846	0.000957	4.91E-05	0.00E+00	9.57E-04	4.91E-05	0.00E+00	2.87E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1674	458204.7	3768846	0.000964	4.94E-05	0.00E+00	9.64E-04	4.94E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
1675	458214.7	3768846	0.000972	4.98E-05	0.00E+00	9.72E-04	4.98E-05	0.00E+00	2.91E-04	8.96E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
1676	458224.7	3768846	0.000978	5.02E-05	0.00E+00	9.78E-04	5.02E-05	0.00E+00	2.93E-04	9.02E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
1677	458234.7	3768846	0.000985	5.05E-05	0.00E+00	9.85E-04	5.05E-05	0.00E+00	2.95E-04	9.08E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
1678	458034.7	3768856	0.000761	3.9E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.02E-06	0.00E+00	8.64E-05	2.27E-06	0.00E+00
1679	458044.7	3768856	0.000774	3.97E-05	0.00E+00	7.74E-04	3.97E-05	0.00E+00	2.32E-04	7.13E-06	0.00E+00	8.78E-05	2.30E-06	0.00E+00
1680	458054.7	3768856	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.36E-04	7.25E-06	0.00E+00	8.92E-05	2.34E-06	0.00E+00
1681	458064.7	3768856	0.000798	4.09E-05	0.00E+00	7.98E-04	4.09E-05	0.00E+00	2.39E-04	7.36E-06	0.00E+00	9.06E-05	2.38E-06	0.00E+00
1682	458074.7	3768856	0.00081	4.15E-05	0.00E+00	8.10E-04	4.15E-05	0.00E+00	2.43E-04	7.47E-06	0.00E+00	9.19E-05	2.41E-06	0.00E+00
1683	458084.7	3768856	0.000822	4.22E-05	0.00E+00	8.22E-04	4.22E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
1684	458094.7	3768856	0.000834	4.27E-05	0.00E+00	8.34E-04	4.27E-05	0.00E+00	2.50E-04	7.69E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
1685	458104.7	3768856	0.000845	4.33E-05	0.00E+00	8.45E-04	4.33E-05	0.00E+00	2.53E-04	7.79E-06	0.00E+00	9.59E-05	2.51E-06	0.00E+00
1686	458144.7	3768856	0.000886	4.54E-05	0.00E+00	8.86E-04	4.54E-05	0.00E+00	2.65E-04	8.17E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
1687	458154.7	3768856	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
1688	458164.7	3768856	0.000902	4.62E-05	0.00E+00	9.02E-04	4.62E-05	0.00E+00	2.70E-04	8.31E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
1689	458174.7	3768856	0.00091	4.67E-05	0.00E+00	9.10E-04	4.67E-05	0.00E+00	2.73E-04	8.39E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
1690	458184.7	3768856	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1691	458194.7	3768856	0.000927	4.75E-05	0.00E+00	9.27E-04	4.75E-05	0.00E+00	2.78E-04	8.55E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
1692	458204.7	3768856	0.000935	4.79E-05	0.00E+00	9.35E-04	4.79E-05	0.00E+00	2.80E-04	8.62E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
1693	458214.7	3768856	0.000942	4.83E-05	0.00E+00	9.42E-04	4.83E-05	0.00E+00	2.82E-04	8.69E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1694	458224.7	3768856	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
1695	458234.7	3768856	0.000956	4.9E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
1696	458034.7	3768866	0.000734	3.76E-05	0.00E+00	7.34E-04	3.76E-05	0.00E+00	2.20E-04	6.77E-06	0.00E+00	8.33E-05	2.18E-06	0.00E+00
1697	458044.7	3768866	0.000746	3.83E-05	0.00E+00	7.46E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
1698	458054.7	3768866	0.000758	3.89E-05	0.00E+00	7.58E-04	3.89E-05	0.00E+00	2.27E-04	6.99E-06	0.00E+00	8.60E-05	2.26E-06	0.00E+00
1699	458064.7	3768866	0.00077	3.95E-05	0.00E+00	7.70E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
1700	458074.7	3768866	0.000782	4.01E-05	0.00E+00	7.82E-04	4.01E-05	0.00E+00	2.34E-04	7.21E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
1701	458084.7	3768866	0.000793	4.07E-05	0.00E+00	7.93E-04	4.07E-05	0.00E+00	2.38E-04	7.31E-06	0.00E+00	9.00E-05	2.36E-06	0.00E+00
1702	458094.7	3768866	0.000804	4.12E-05	0.00E+00	8.04E-04	4.12E-05	0.00E+00	2.41E-04	7.41E-06	0.00E+00	9.12E-05	2.39E-06	0.00E+00
1703	458104.7	3768866	0.000815	4.18E-05	0.00E+00	8.15E-04	4.18E-05	0.00E+00	2.44E-04	7.51E-06	0.00E+00	9.24E-05	2.42E-06	0.00E+00
1704	458144.7	3768866	0.000856	4.39E-05	0.00E+00	8.56E-04	4.39E-05	0.00E+00	2.56E-04	7.89E-06	0.00E+00	9.71E-05	2.55E-06	0.00E+00
1705	458154.7	3768866	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.97E-06	0.00E+00	9.81E-05	2.57E-06	0.00E+00
1706	458164.7	3768866	0.000873	4.47E-05	0.00E+00	8.73E-04	4.47E-05	0.00E+00	2.61E-04	8.04E-06	0.00E+00	9.90E-05	2.60E-06	0.00E+00
1707	458174.7	3768866	0.000881	4.52E-05	0.00E+00	8.81E-04	4.52E-05	0.00E+00	2.64E-04	8.12E-06	0.00E+00	1.00E-04	2.62E-06	0.00E+00
1708	458184.7	3768866	0.00089	4.56E-05	0.00E+00	8.90E-04	4.56E-05	0.00E+00	2.67E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
1709	458194.7	3768866	0.000898	4.61E-05	0.00E+00	8.98E-04	4.61E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
1710	458204.7	3768866	0.000906	4.65E-05	0.00E+00	9.06E-04	4.65E-05	0.00E+00	2.71E-04	8.35E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
1711	458214.7	3768866	0.000913	4.68E-05	0.00E+00	9.13E-04	4.68E-05	0.00E+00	2.74E-04	8.42E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
1712	458224.7	3768866	0.00092	4.72E-05	0.00E+00	9.20E-04	4.72E-05	0.00E+00	2.76E-04	8.48E-06	0.00E+00	1.04E-04	2.74E-06	0.00E+00
1713	458234.7	3768866	0.000927	4.75E-05	0.00E+00	9.27E-04	4.75E-05	0.00E+00	2.78E-04	8.54E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
1714	458034.7	3768876	0.000708	3.63E-05	0.00E+00	7.08E-04	3.63E-05	0.00E+00	2.12E-04	6.53E-06	0.00E+00	8.03E-05	2.11E-06	0.00E+00
1715	458044.7	3768876	0.00072	3.69E-05	0.00E+00	7.20E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.17E-05	2.14E-06	0.00E+00
1716	458054.7	3768876	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.74E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
1717	458064.7	3768876	0.000743	3.81E-05	0.00E+00	7.43E-04	3.81E-05	0.00E+00	2.23E-04	6.85E-06	0.00E+00	8.43E-05	2.21E-06	0.00E+00
1718	458074.7	3768876	0.000755	3.87E-05	0.00E+00	7.55E-04	3.87E-05	0.00E+00	2.26E-04	6.96E-06	0.00E+00	8.56E-05	2.25E-06	0.00E+00
1719	458084.7	3768876	0.000766	3.93E-05	0.00E+00	7.66E-04	3.93E-05	0.00E+00	2.29E-04	7.06E-06	0.00E+00	8.69E-05	2.28E-06	0.00E+00
1720	458094.7	3768876	0.000776	3.98E-05	0.00E+00	7.76E-04	3.98E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
1721	458104.7	3768876	0.000785	4.03E-05	0.00E+00	7.85E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.91E-05	2.34E-06	0.00E+00
1722	458144.7	3768876	0.000826	4.24E-05	0.00E+00	8.26E-04	4.24E-05	0.00E+00	2.47E-04	7.62E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
1723	458154.7	3768876	0.000835	4.28E-05	0.00E+00	8.35E-04	4.28E-05	0.00E+00	2.50E-04	7.70E-06	0.00E+00	9.48E-05	2.49E-06	0.00E+00
1724	458164.7	3768876	0.000844	4.33E-05	0.00E+00	8.44E-04	4.33E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.58E-05	2.51E-06	0.00E+00
1725	458174.7	3768876	0.000853	4.37E-05	0.00E+00	8.53E-04	4.37E-05	0.00E+00	2.56E-04	7.87E-06	0.00E+00	9.68E-05	2.54E-06	0.00E+00
1726	458184.7	3768876	0.000862	4.42E-05	0.00E+00	8.62E-04	4.42E-05	0.00E+00	2.58E-04	7.95E-06	0.00E+00	9.78E-05	2.57E-06	0.00E+00

1727	458194.7	3768876	0.000871	4.46E-05	0.00E+00	8.71E-04	4.46E-05	0.00E+00	2.61E-04	8.02E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
1728	458204.7	3768876	0.000878	4.5E-05	0.00E+00	8.78E-04	4.50E-05	0.00E+00	2.63E-04	8.09E-06	0.00E+00	9.96E-05	2.61E-06	0.00E+00
1729	458214.7	3768876	0.000885	4.54E-05	0.00E+00	8.85E-04	4.54E-05	0.00E+00	2.65E-04	8.16E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
1730	458224.7	3768876	0.000892	4.57E-05	0.00E+00	8.92E-04	4.57E-05	0.00E+00	2.67E-04	8.22E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
1731	458234.7	3768876	0.000898	4.6E-05	0.00E+00	8.98E-04	4.60E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
1732	458034.7	3768886	0.000683	3.5E-05	0.00E+00	6.83E-04	3.50E-05	0.00E+00	2.05E-04	6.30E-06	0.00E+00	7.75E-05	2.03E-06	0.00E+00
1733	458044.7	3768886	0.000695	3.56E-05	0.00E+00	6.95E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
1734	458054.7	3768886	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.11E-04	6.51E-06	0.00E+00	8.01E-05	2.10E-06	0.00E+00
1735	458064.7	3768886	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.14E-06	0.00E+00
1736	458074.7	3768886	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
1737	458084.7	3768886	0.000739	3.79E-05	0.00E+00	7.39E-04	3.79E-05	0.00E+00	2.21E-04	6.81E-06	0.00E+00	8.38E-05	2.20E-06	0.00E+00
1738	458094.7	3768886	0.000748	3.84E-05	0.00E+00	7.48E-04	3.84E-05	0.00E+00	2.24E-04	6.90E-06	0.00E+00	8.49E-05	2.23E-06	0.00E+00
1739	458104.7	3768886	0.000757	3.88E-05	0.00E+00	7.57E-04	3.88E-05	0.00E+00	2.27E-04	6.98E-06	0.00E+00	8.59E-05	2.25E-06	0.00E+00
1740	458144.7	3768886	0.000798	4.09E-05	0.00E+00	7.98E-04	4.09E-05	0.00E+00	2.39E-04	7.35E-06	0.00E+00	9.05E-05	2.37E-06	0.00E+00
1741	458154.7	3768886	0.000808	4.14E-05	0.00E+00	8.08E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
1742	458164.7	3768886	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.27E-05	2.43E-06	0.00E+00
1743	458174.7	3768886	0.000826	4.24E-05	0.00E+00	8.26E-04	4.24E-05	0.00E+00	2.47E-04	7.62E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
1744	458184.7	3768886	0.000835	4.28E-05	0.00E+00	8.35E-04	4.28E-05	0.00E+00	2.50E-04	7.70E-06	0.00E+00	9.47E-05	2.48E-06	0.00E+00
1745	458194.7	3768886	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.57E-05	2.51E-06	0.00E+00
1746	458204.7	3768886	0.000851	4.36E-05	0.00E+00	8.51E-04	4.36E-05	0.00E+00	2.55E-04	7.84E-06	0.00E+00	9.65E-05	2.53E-06	0.00E+00
1747	458214.7	3768886	0.000858	4.4E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.90E-06	0.00E+00	9.73E-05	2.55E-06	0.00E+00
1748	458224.7	3768886	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.80E-05	2.57E-06	0.00E+00
1749	458234.7	3768886	0.00087	4.46E-05	0.00E+00	8.70E-04	4.46E-05	0.00E+00	2.61E-04	8.02E-06	0.00E+00	9.87E-05	2.59E-06	0.00E+00
1750	458034.7	3768896	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
1751	458044.7	3768896	0.000669	3.43E-05	0.00E+00	6.69E-04	3.43E-05	0.00E+00	2.00E-04	6.17E-06	0.00E+00	7.59E-05	1.99E-06	0.00E+00
1752	458054.7	3768896	0.00068	3.49E-05	0.00E+00	6.80E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.71E-05	2.02E-06	0.00E+00
1753	458064.7	3768896	0.000691	3.54E-05	0.00E+00	6.91E-04	3.54E-05	0.00E+00	2.07E-04	6.37E-06	0.00E+00	7.84E-05	2.06E-06	0.00E+00
1754	458074.7	3768896	0.000702	3.6E-05	0.00E+00	7.02E-04	3.60E-05	0.00E+00	2.10E-04	6.47E-06	0.00E+00	7.96E-05	2.09E-06	0.00E+00
1755	458084.7	3768896	0.000712	3.65E-05	0.00E+00	7.12E-04	3.65E-05	0.00E+00	2.13E-04	6.57E-06	0.00E+00	8.08E-05	2.12E-06	0.00E+00
1756	458094.7	3768896	0.000722	3.7E-05	0.00E+00	7.22E-04	3.70E-05	0.00E+00	2.16E-04	6.66E-06	0.00E+00	8.19E-05	2.15E-06	0.00E+00
1757	458104.7	3768896	0.000731	3.75E-05	0.00E+00	7.31E-04	3.75E-05	0.00E+00	2.19E-04	6.74E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
1758	458144.7	3768896	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.76E-05	2.30E-06	0.00E+00
1759	458154.7	3768896	0.000781	4.01E-05	0.00E+00	7.81E-04	4.01E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.86E-05	2.33E-06	0.00E+00
1760	458164.7	3768896	0.000791	4.05E-05	0.00E+00	7.91E-04	4.05E-05	0.00E+00	2.37E-04	7.29E-06	0.00E+00	8.97E-05	2.35E-06	0.00E+00
1761	458174.7	3768896	0.0008	4.1E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.37E-06	0.00E+00	9.07E-05	2.38E-06	0.00E+00
1762	458184.7	3768896	0.000808	4.14E-05	0.00E+00	8.08E-04	4.14E-05	0.00E+00	2.42E-04	7.45E-06	0.00E+00	9.17E-05	2.40E-06	0.00E+00
1763	458194.7	3768896	0.000816	4.18E-05	0.00E+00	8.16E-04	4.18E-05	0.00E+00	2.44E-04	7.52E-06	0.00E+00	9.26E-05	2.43E-06	0.00E+00
1764	458204.7	3768896	0.000824	4.22E-05	0.00E+00	8.24E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.35E-05	2.45E-06	0.00E+00
1765	458214.7	3768896	0.000831	4.26E-05	0.00E+00	8.31E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.43E-05	2.47E-06	0.00E+00
1766	458224.7	3768896	0.000838	4.29E-05	0.00E+00	8.38E-04	4.29E-05	0.00E+00	2.51E-04	7.72E-06	0.00E+00	9.50E-05	2.49E-06	0.00E+00
1767	458234.7	3768896	0.000845	4.33E-05	0.00E+00	8.45E-04	4.33E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.58E-05	2.51E-06	0.00E+00
1768	458034.7	3768906	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.20E-05	1.89E-06	0.00E+00
1769	458044.7	3768906	0.000644	3.3E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00
1770	458054.7	3768906	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.03E-06	0.00E+00	7.43E-05	1.95E-06	0.00E+00
1771	458064.7	3768906	0.000666	3.41E-05	0.00E+00	6.66E-04	3.41E-05	0.00E+00	1.99E-04	6.14E-06	0.00E+00	7.55E-05	1.98E-06	0.00E+00
1772	458074.7	3768906	0.000676	3.47E-05	0.00E+00	6.76E-04	3.47E-05	0.00E+00	2.03E-04	6.23E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
1773	458084.7	3768906	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.33E-06	0.00E+00	7.79E-05	2.04E-06	0.00E+00
1774	458094.7	3768906	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
1775	458104.7	3768906	0.000707	3.62E-05	0.00E+00	7.07E-04	3.62E-05	0.00E+00	2.12E-04	6.51E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
1776	458144.7	3768906	0.000747	3.83E-05	0.00E+00	7.47E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
1777	458154.7	3768906	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
1778	458164.7	3768906	0.000765	3.92E-05	0.00E+00	7.65E-04	3.92E-05	0.00E+00	2.29E-04	7.06E-06	0.00E+00	8.68E-05	2.28E-06	0.00E+00
1779	458174.7	3768906	0.000774	3.97E-05	0.00E+00	7.74E-04	3.97E-05	0.00E+00	2.32E-04	7.14E-06	0.00E+00	8.78E-05	2.30E-06	0.00E+00
1780	458184.7	3768906	0.000782	4.01E-05	0.00E+00	7.82E-04	4.01E-05	0.00E+00	2.34E-04	7.21E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
1781	458194.7	3768906	0.00079	4.05E-05	0.00E+00	7.90E-04	4.05E-05	0.00E+00	2.37E-04	7.28E-06	0.00E+00	8.96E-05	2.35E-06	0.00E+00
1782	458204.7	3768906	0.000797	4.09E-05	0.00E+00	7.97E-04	4.09E-05	0.00E+00	2.39E-04	7.35E-06	0.00E+00	9.05E-05	2.37E-06	0.00E+00
1783	458214.7	3768906	0.000805	4.13E-05	0.00E+00	8.05E-04	4.13E-05	0.00E+00	2.41E-04	7.42E-06	0.00E+00	9.13E-05	2.40E-06	0.00E+00
1784	458224.7	3768906	0.000812	4.16E-05	0.00E+00	8.12E-04	4.16E-05	0.00E+00	2.43E-04	7.49E-06	0.00E+00	9.22E-05	2.42E-06	0.00E+00
1785	458234.7	3768906	0.000819	4.2E-05	0.00E+00	8.19E-04	4.20E-05	0.00E+00	2.45E-04	7.55E-06	0.00E+00	9.30E-05	2.44E-06	0.00E+00
1786	458034.7	3768916	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
1787	458044.7	3768916	0.000621	3.18E-05	0.00E+00	6.21E-04	3.18E-05	0.00E+00	1.86E-04	5.72E-06	0.00E+00	7.04E-05	1.85E-06	0.00E+00
1788	458054.7	3768916	0.000631	3.23E-05	0.00E+00	6.31E-04	3.23E-05	0.00E+00	1.89E-04	5.81E-06	0.00E+00	7.15E-05	1.88E-06	0.00E+00
1789	458064.7	3768916	0.000641	3.29E-05	0.00E+00	6.41E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
1790	458074.7	3768916	0.000652	3.34E-05	0.00E+00	6.52E-04	3.34E-05	0.00E+00	1.95E-04	6.01E-06	0.00E+00	7.39E-05	1.94E-06	0.00E+00
1791	458084.7	3768916	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
1792	458094.7	3768916	0.000672	3.45E-05	0.00E+00	6.72E-04	3.45E-05	0.00E+00	2.01E-04	6.20E-06	0.00E+00	7.63E-05	2.00E-06	0.00E+00
1793	458104.7	3768916	0.000683	0.000035	0.00E+00	6.83E-04	3.50E-05	0.00E+00	2.04E-04	6.29E-06	0.00E+00	7.75E-05	2.03E-06	0.00E+00
1794	458144.7	3768916	0.000722	3.7E-05	0.00E+00	7.22E-04	3.70E-05	0.00E+00	2.16E-04	6.66E-06	0.00E+00	8.20E-05	2.15E-06	0.00E+00
1795	458154.7	3768916	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
1796	458164.7	3768916	0.000741	3.8E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
1797	458174.7	3768916	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.91E-06	0.00E+00	8.50E-05	2.23E-06	0.00E+00
1798	458184.7	3768916	0.000757	3.88E-05	0.00E+00	7.57E-04	3.88E-05	0.00E+00	2.27E-04	6.98E-06	0.00E+00	8.59E-05	2.25E-06	0.00E+00
1799	458194.7	3768916	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
1800	458204.7	3768916	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
1801	458214.7	3768916	0.00078	4E-05	0.00E+00	7.80E-04	4.00E-05	0.00E+00	2.34E-04	7.19E-06	0.00E+00	8.85E-05	2.32E-06	0.00E+00
1802	458224.7	3768916	0.000788	4.04E-05	0.00E+00	7.88E-04	4.04E-05	0.00E+00	2.36E-04	7.26E-06	0.00E+00	8.94E-05	2.34E-06	0.00E+00
1803	458234.7	3768916	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
1804	458034.7	3768926	0.00059	3.03E-05	0.00E+00	5.90E-04	3.03E-05	0.00E+00	1.77E-04	5.44E-06	0.00E+00	6.70E-05	1.76E-06	0.00E+00
1805	458044.7	3768926	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.80E-04	5.52E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
1806	458054.7	3768926	0.000609	3.12E-05	0.00E+00	6.09E-04	3.12E-05	0.00E+00	1.82E-04	5.61E-06	0.00E+00	6.91E-05	1.81E-06	0.00E+00
1807	458064.7	3768926	0.000619	3.18E-05	0.00E+00	6.19E-04	3.18E-05	0.00E+00	1.86E-04	5.71E-06	0.00E+00	7.03E-05	1.84E-06	0.00E+00
1808	458074.7	3768926	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.80E-06	0.00E+00	7.14E-05	1.87E-06	0.00E+00
1809	458084.7	3768926	0.00064	3.28E-05	0.00E+00	6.40E-04	3.28E-05	0.00E+00	1.92E-04	5.90E-06	0.00E+00	7.26E-05	1.90E-06	0.00E+00
1810	458094.7	3768926	0.00065	3.33E-05	0.00E+00	6.50E-04	3.33E-05	0.00E+00	1.95E-04	5.99E-06	0.00E+00	7.37E-05	1.93E-06	0.00E+00
1811	458104.7	3768926	0.00066	3.38E-05	0.00E+00	6.60E-04	3.38E-05	0.00E+00	1.98E-04	6.08E-06	0.00E+00	7.49E-05	1.96E-06	0.00E+00
1812	458144.7	3768926	0.000699	3.58E-05	0.00E+00	6.99E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.93E-05	2.08E-06	0.00E+00
1813	458154.7	3768926	0.000708	3.63E-05	0.00E+00	7.08E-04	3.63E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.03E-05	2.11E-06	0.00E+00
1814	458164.7	3768926	0.000716	3.67E-05	0.00E+00	7.16E-04	3.67E-05	0.00E+00	2.15E-04	6.60E-06	0.00E+00	8.13E-05	2.13E-06	0.00E+00
1815	458174.7	3768926	0.000725	3.71E-05	0.00E+00	7.25E-04	3.71E-05	0.00E+00	2.17E-04	6.68E-06	0.00E+00	8.22E-05	2.16E-06	0.00E+00
1816	458184.7	3768926	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00
1817	458194.7	3768926	0.00074	3.79E-05	0.00E+00	7.40E-04	3.79E-05	0.00E+00	2.22E-04	6.82E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00

1818	458204.7	3768926	0.000748	3.83E-05	0.00E+00	7.48E-04	3.83E-05	0.00E+00	2.24E-04	6.89E-06	0.00E+00	8.49E-05	2.23E-06	0.00E+00
1819	458214.7	3768926	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
1820	458224.7	3768926	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
1821	458234.7	3768926	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
1822	458034.7	3768936	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
1823	458044.7	3768936	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
1824	458054.7	3768936	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
1825	458064.7	3768936	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.79E-05	1.78E-06	0.00E+00
1826	458074.7	3768936	0.000609	3.12E-05	0.00E+00	6.09E-04	3.12E-05	0.00E+00	1.82E-04	5.61E-06	0.00E+00	6.91E-05	1.81E-06	0.00E+00
1827	458084.7	3768936	0.000619	3.17E-05	0.00E+00	6.19E-04	3.17E-05	0.00E+00	1.85E-04	5.70E-06	0.00E+00	7.02E-05	1.84E-06	0.00E+00
1828	458094.7	3768936	0.000629	3.22E-05	0.00E+00	6.29E-04	3.22E-05	0.00E+00	1.88E-04	5.79E-06	0.00E+00	7.13E-05	1.87E-06	0.00E+00
1829	458104.7	3768936	0.000638	3.27E-05	0.00E+00	6.38E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.24E-05	1.90E-06	0.00E+00
1830	458144.7	3768936	0.000676	3.47E-05	0.00E+00	6.76E-04	3.47E-05	0.00E+00	2.02E-04	6.23E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
1831	458154.7	3768936	0.000684	3.51E-05	0.00E+00	6.84E-04	3.51E-05	0.00E+00	2.05E-04	6.31E-06	0.00E+00	7.76E-05	2.04E-06	0.00E+00
1832	458164.7	3768936	0.000692	3.55E-05	0.00E+00	6.92E-04	3.55E-05	0.00E+00	2.07E-04	6.38E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
1833	458174.7	3768936	0.000701	3.59E-05	0.00E+00	7.01E-04	3.59E-05	0.00E+00	2.10E-04	6.46E-06	0.00E+00	7.95E-05	2.08E-06	0.00E+00
1834	458184.7	3768936	0.000709	3.63E-05	0.00E+00	7.09E-04	3.63E-05	0.00E+00	2.12E-04	6.53E-06	0.00E+00	8.04E-05	2.11E-06	0.00E+00
1835	458194.7	3768936	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.13E-05	2.13E-06	0.00E+00
1836	458204.7	3768936	0.000725	3.72E-05	0.00E+00	7.25E-04	3.72E-05	0.00E+00	2.17E-04	6.68E-06	0.00E+00	8.23E-05	2.16E-06	0.00E+00
1837	458214.7	3768936	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.32E-05	2.18E-06	0.00E+00
1838	458224.7	3768936	0.000741	3.8E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
1839	458234.7	3768936	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.90E-06	0.00E+00	8.49E-05	2.23E-06	0.00E+00
1840	458034.7	3768946	0.00055	2.82E-05	0.00E+00	5.50E-04	2.82E-05	0.00E+00	1.65E-04	5.07E-06	0.00E+00	6.24E-05	1.64E-06	0.00E+00
1841	458044.7	3768946	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.68E-04	5.16E-06	0.00E+00	6.35E-05	1.66E-06	0.00E+00
1842	458054.7	3768946	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
1843	458064.7	3768946	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
1844	458074.7	3768946	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
1845	458084.7	3768946	0.000598	3.07E-05	0.00E+00	5.98E-04	3.07E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.79E-05	1.78E-06	0.00E+00
1846	458094.7	3768946	0.000608	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.90E-05	1.81E-06	0.00E+00
1847	458104.7	3768946	0.000617	3.17E-05	0.00E+00	6.17E-04	3.17E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
1848	458144.7	3768946	0.000654	3.35E-05	0.00E+00	6.54E-04	3.35E-05	0.00E+00	1.96E-04	6.03E-06	0.00E+00	7.42E-05	1.95E-06	0.00E+00
1849	458154.7	3768946	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
1850	458164.7	3768946	0.000669	3.43E-05	0.00E+00	6.69E-04	3.43E-05	0.00E+00	2.00E-04	6.17E-06	0.00E+00	7.59E-05	1.99E-06	0.00E+00
1851	458174.7	3768946	0.000677	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.69E-05	2.02E-06	0.00E+00
1852	458184.7	3768946	0.000686	3.52E-05	0.00E+00	6.86E-04	3.52E-05	0.00E+00	2.05E-04	6.32E-06	0.00E+00	7.78E-05	2.04E-06	0.00E+00
1853	458194.7	3768946	0.000695	3.56E-05	0.00E+00	6.95E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
1854	458204.7	3768946	0.000703	3.6E-05	0.00E+00	7.03E-04	3.60E-05	0.00E+00	2.11E-04	6.48E-06	0.00E+00	7.97E-05	2.09E-06	0.00E+00
1855	458214.7	3768946	0.000711	3.64E-05	0.00E+00	7.11E-04	3.64E-05	0.00E+00	2.13E-04	6.55E-06	0.00E+00	8.07E-05	2.12E-06	0.00E+00
1856	458224.7	3768946	0.000719	3.69E-05	0.00E+00	7.19E-04	3.69E-05	0.00E+00	2.15E-04	6.63E-06	0.00E+00	8.16E-05	2.14E-06	0.00E+00
1857	458234.7	3768946	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.18E-04	6.70E-06	0.00E+00	8.24E-05	2.16E-06	0.00E+00
1858	458034.7	3768956	0.000532	2.72E-05	0.00E+00	5.32E-04	2.72E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.03E-05	1.58E-06	0.00E+00
1859	458044.7	3768956	0.000541	2.77E-05	0.00E+00	5.41E-04	2.77E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
1860	458054.7	3768956	0.00055	2.82E-05	0.00E+00	5.50E-04	2.82E-05	0.00E+00	1.65E-04	5.07E-06	0.00E+00	6.24E-05	1.64E-06	0.00E+00
1861	458064.7	3768956	0.00056	2.87E-05	0.00E+00	5.60E-04	2.87E-05	0.00E+00	1.68E-04	5.16E-06	0.00E+00	6.35E-05	1.67E-06	0.00E+00
1862	458074.7	3768956	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
1863	458084.7	3768956	0.000578	2.97E-05	0.00E+00	5.78E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
1864	458094.7	3768956	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.66E-05	1.75E-06	0.00E+00
1865	458104.7	3768956	0.000596	3.06E-05	0.00E+00	5.96E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.76E-05	1.77E-06	0.00E+00
1866	458144.7	3768956	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
1867	458154.7	3768956	0.00064	3.28E-05	0.00E+00	6.40E-04	3.28E-05	0.00E+00	1.92E-04	5.90E-06	0.00E+00	7.26E-05	1.90E-06	0.00E+00
1868	458164.7	3768956	0.000648	3.32E-05	0.00E+00	6.48E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
1869	458174.7	3768956	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
1870	458184.7	3768956	0.000665	3.41E-05	0.00E+00	6.65E-04	3.41E-05	0.00E+00	1.99E-04	6.13E-06	0.00E+00	7.54E-05	1.98E-06	0.00E+00
1871	458194.7	3768956	0.000673	3.45E-05	0.00E+00	6.73E-04	3.45E-05	0.00E+00	2.02E-04	6.21E-06	0.00E+00	7.64E-05	2.00E-06	0.00E+00
1872	458204.7	3768956	0.000681	3.49E-05	0.00E+00	6.81E-04	3.49E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.73E-05	2.03E-06	0.00E+00
1873	458214.7	3768956	0.000689	3.53E-05	0.00E+00	6.89E-04	3.53E-05	0.00E+00	2.07E-04	6.36E-06	0.00E+00	7.82E-05	2.05E-06	0.00E+00
1874	458224.7	3768956	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.91E-05	2.07E-06	0.00E+00
1875	458234.7	3768956	0.000705	3.61E-05	0.00E+00	7.05E-04	3.61E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
1876	458034.7	3768966	0.000514	2.64E-05	0.00E+00	5.14E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
1877	458044.7	3768966	0.000523	2.68E-05	0.00E+00	5.23E-04	2.68E-05	0.00E+00	1.57E-04	4.82E-06	0.00E+00	5.94E-05	1.56E-06	0.00E+00
1878	458054.7	3768966	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.91E-06	0.00E+00	6.04E-05	1.58E-06	0.00E+00
1879	458064.7	3768966	0.000542	2.78E-05	0.00E+00	5.42E-04	2.78E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
1880	458074.7	3768966	0.000551	2.82E-05	0.00E+00	5.51E-04	2.82E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
1881	458084.7	3768966	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.68E-04	5.16E-06	0.00E+00	6.35E-05	1.66E-06	0.00E+00
1882	458094.7	3768966	0.000568	2.91E-05	0.00E+00	5.68E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.44E-05	1.69E-06	0.00E+00
1883	458104.7	3768966	0.000576	2.95E-05	0.00E+00	5.76E-04	2.95E-05	0.00E+00	1.72E-04	5.31E-06	0.00E+00	6.53E-05	1.71E-06	0.00E+00
1884	458144.7	3768966	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.63E-06	0.00E+00	6.93E-05	1.82E-06	0.00E+00
1885	458154.7	3768966	0.000619	3.17E-05	0.00E+00	6.19E-04	3.17E-05	0.00E+00	1.85E-04	5.71E-06	0.00E+00	7.03E-05	1.84E-06	0.00E+00
1886	458164.7	3768966	0.000627	3.22E-05	0.00E+00	6.27E-04	3.22E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.12E-05	1.87E-06	0.00E+00
1887	458174.7	3768966	0.000636	3.26E-05	0.00E+00	6.36E-04	3.26E-05	0.00E+00	1.90E-04	5.86E-06	0.00E+00	7.21E-05	1.89E-06	0.00E+00
1888	458184.7	3768966	0.000644	3.3E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00
1889	458194.7	3768966	0.000653	3.35E-05	0.00E+00	6.53E-04	3.35E-05	0.00E+00	1.95E-04	6.02E-06	0.00E+00	7.40E-05	1.94E-06	0.00E+00
1890	458204.7	3768966	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
1891	458214.7	3768966	0.000669	3.43E-05	0.00E+00	6.69E-04	3.43E-05	0.00E+00	2.00E-04	6.16E-06	0.00E+00	7.59E-05	1.99E-06	0.00E+00
1892	458224.7	3768966	0.000676	3.47E-05	0.00E+00	6.76E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
1893	458234.7	3768966	0.000684	3.51E-05	0.00E+00	6.84E-04	3.51E-05	0.00E+00	2.05E-04	6.30E-06	0.00E+00	7.76E-05	2.03E-06	0.00E+00
1894	458034.7	3768976	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
1895	458044.7	3768976	0.000506	2.6E-05	0.00E+00	5.06E-04	2.60E-05	0.00E+00	1.52E-04	4.67E-06	0.00E+00	5.75E-05	1.51E-06	0.00E+00
1896	458054.7	3768976	0.000515	2.64E-05	0.00E+00	5.15E-04	2.64E-05	0.00E+00	1.54E-04	4.75E-06	0.00E+00	5.85E-05	1.53E-06	0.00E+00
1897	458064.7	3768976	0.000524	2.69E-05	0.00E+00	5.24E-04	2.69E-05	0.00E+00	1.57E-04	4.83E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
1898	458074.7	3768976	0.000533	2.73E-05	0.00E+00	5.33E-04	2.73E-05	0.00E+00	1.60E-04	4.91E-06	0.00E+00	6.05E-05	1.59E-06	0.00E+00
1899	458084.7	3768976	0.000541	2.77E-05	0.00E+00	5.41E-04	2.77E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
1900	458094.7	3768976	0.000549	2.81E-05	0.00E+00	5.49E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.22E-05	1.63E-06	0.00E+00
1901	458104.7	3768976	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.67E-04	5.13E-06	0.00E+00	6.31E-05	1.65E-06	0.00E+00
1902	458144.7	3768976	0.000591	3.03E-05	0.00E+00	5.91E-04	3.03E-05	0.00E+00	1.77E-04	5.44E-06	0.00E+00	6.70E-05	1.76E-06	0.00E+00
1903	458154.7	3768976	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
1904	458164.7	3768976	0.000608	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
1905	458174.7	3768976	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
1906	458184.7	3768976	0.000624	3.2E-05	0.00E+00	6.24E-04	3.20E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.08E-05	1.86E-06	0.00E+00
1907	458194.7	3768976	0.000633	3.24E-05	0.00E+00	6.33E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.18E-05	1.88E-06	0.00E+00
1908	458204.7	3768976	0.000641	3.28E-05	0.00E+00	6.41E-04	3.28E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00

1909	458214.7	3768976	0.000649	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.36E-05	1.93E-06	0.00E+00
1910	458224.7	3768976	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
1911	458234.7	3768976	0.000663	3.4E-05	0.00E+00	6.63E-04	3.40E-05	0.00E+00	1.99E-04	6.11E-06	0.00E+00	7.52E-05	1.97E-06	0.00E+00
1912	458034.7	3768986	0.000481	2.47E-05	0.00E+00	4.81E-04	2.47E-05	0.00E+00	1.44E-04	4.43E-06	0.00E+00	5.46E-05	1.43E-06	0.00E+00
1913	458044.7	3768986	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.46E-04	4.51E-06	0.00E+00	5.55E-05	1.46E-06	0.00E+00
1914	458054.7	3768986	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
1915	458064.7	3768986	0.000506	2.59E-05	0.00E+00	5.06E-04	2.59E-05	0.00E+00	1.52E-04	4.66E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
1916	458074.7	3768986	0.000515	2.64E-05	0.00E+00	5.15E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.84E-05	1.53E-06	0.00E+00
1917	458084.7	3768986	0.000523	2.68E-05	0.00E+00	5.23E-04	2.68E-05	0.00E+00	1.57E-04	4.82E-06	0.00E+00	5.93E-05	1.56E-06	0.00E+00
1918	458094.7	3768986	0.00053	2.72E-05	0.00E+00	5.30E-04	2.72E-05	0.00E+00	1.59E-04	4.89E-06	0.00E+00	6.02E-05	1.58E-06	0.00E+00
1919	458104.7	3768986	0.000538	2.76E-05	0.00E+00	5.38E-04	2.76E-05	0.00E+00	1.61E-04	4.96E-06	0.00E+00	6.10E-05	1.60E-06	0.00E+00
1920	458144.7	3768986	0.000572	2.93E-05	0.00E+00	5.72E-04	2.93E-05	0.00E+00	1.71E-04	5.27E-06	0.00E+00	6.49E-05	1.70E-06	0.00E+00
1921	458154.7	3768986	0.00058	2.98E-05	0.00E+00	5.80E-04	2.98E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.59E-05	1.73E-06	0.00E+00
1922	458164.7	3768986	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
1923	458174.7	3768986	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
1924	458184.7	3768986	0.000605	0.000031	0.00E+00	6.05E-04	3.10E-05	0.00E+00	1.81E-04	5.57E-06	0.00E+00	6.86E-05	1.80E-06	0.00E+00
1925	458194.7	3768986	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.95E-05	1.82E-06	0.00E+00
1926	458204.7	3768986	0.00062	3.18E-05	0.00E+00	6.20E-04	3.18E-05	0.00E+00	1.86E-04	5.72E-06	0.00E+00	7.04E-05	1.85E-06	0.00E+00
1927	458214.7	3768986	0.000628	3.22E-05	0.00E+00	6.28E-04	3.22E-05	0.00E+00	1.88E-04	5.79E-06	0.00E+00	7.12E-05	1.87E-06	0.00E+00
1928	458224.7	3768986	0.000636	3.26E-05	0.00E+00	6.36E-04	3.26E-05	0.00E+00	1.90E-04	5.86E-06	0.00E+00	7.21E-05	1.89E-06	0.00E+00
1929	458234.7	3768986	0.000643	3.3E-05	0.00E+00	6.43E-04	3.30E-05	0.00E+00	1.93E-04	5.92E-06	0.00E+00	7.29E-05	1.91E-06	0.00E+00
1930	458034.7	3768996	0.000465	2.38E-05	0.00E+00	4.65E-04	2.38E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.38E-06	0.00E+00
1931	458044.7	3768996	0.000473	2.42E-05	0.00E+00	4.73E-04	2.42E-05	0.00E+00	1.42E-04	4.36E-06	0.00E+00	5.36E-05	1.41E-06	0.00E+00
1932	458054.7	3768996	0.00048	2.46E-05	0.00E+00	4.80E-04	2.46E-05	0.00E+00	1.44E-04	4.43E-06	0.00E+00	5.45E-05	1.43E-06	0.00E+00
1933	458064.7	3768996	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
1934	458074.7	3768996	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
1935	458084.7	3768996	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
1936	458094.7	3768996	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
1937	458104.7	3768996	0.000521	2.67E-05	0.00E+00	5.21E-04	2.67E-05	0.00E+00	1.56E-04	4.80E-06	0.00E+00	5.91E-05	1.55E-06	0.00E+00
1938	458144.7	3768996	0.000554	2.84E-05	0.00E+00	5.54E-04	2.84E-05	0.00E+00	1.66E-04	5.11E-06	0.00E+00	6.29E-05	1.65E-06	0.00E+00
1939	458154.7	3768996	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.19E-06	0.00E+00	6.38E-05	1.67E-06	0.00E+00
1940	458164.7	3768996	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
1941	458174.7	3768996	0.000578	2.97E-05	0.00E+00	5.78E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
1942	458184.7	3768996	0.000586	3E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.75E-04	5.40E-06	0.00E+00	6.64E-05	1.74E-06	0.00E+00
1943	458194.7	3768996	0.000593	3.04E-05	0.00E+00	5.93E-04	3.04E-05	0.00E+00	1.78E-04	5.46E-06	0.00E+00	6.72E-05	1.76E-06	0.00E+00
1944	458204.7	3768996	0.0006	3.08E-05	0.00E+00	6.00E-04	3.08E-05	0.00E+00	1.80E-04	5.53E-06	0.00E+00	6.81E-05	1.79E-06	0.00E+00
1945	458214.7	3768996	0.000608	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.90E-05	1.81E-06	0.00E+00
1946	458224.7	3768996	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.67E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
1947	458234.7	3768996	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00
1948	458034.7	3769006	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.11E-05	1.34E-06	0.00E+00
1949	458044.7	3769006	0.000457	2.34E-05	0.00E+00	4.57E-04	2.34E-05	0.00E+00	1.37E-04	4.21E-06	0.00E+00	5.18E-05	1.36E-06	0.00E+00
1950	458054.7	3769006	0.000464	2.38E-05	0.00E+00	4.64E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.26E-05	1.38E-06	0.00E+00
1951	458064.7	3769006	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.40E-06	0.00E+00
1952	458074.7	3769006	0.00048	2.46E-05	0.00E+00	4.80E-04	2.46E-05	0.00E+00	1.44E-04	4.43E-06	0.00E+00	5.45E-05	1.43E-06	0.00E+00
1953	458084.7	3769006	0.000488	2.5E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
1954	458094.7	3769006	0.000496	2.54E-05	0.00E+00	4.96E-04	2.54E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.63E-05	1.48E-06	0.00E+00
1955	458104.7	3769006	0.000504	2.59E-05	0.00E+00	5.04E-04	2.59E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.72E-05	1.50E-06	0.00E+00
1956	458144.7	3769006	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
1957	458154.7	3769006	0.000545	2.8E-05	0.00E+00	5.45E-04	2.80E-05	0.00E+00	1.63E-04	5.03E-06	0.00E+00	6.19E-05	1.62E-06	0.00E+00
1958	458164.7	3769006	0.000553	2.84E-05	0.00E+00	5.53E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.28E-05	1.65E-06	0.00E+00
1959	458174.7	3769006	0.000561	2.87E-05	0.00E+00	5.61E-04	2.87E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.36E-05	1.67E-06	0.00E+00
1960	458184.7	3769006	0.000567	2.91E-05	0.00E+00	5.67E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.44E-05	1.69E-06	0.00E+00
1961	458194.7	3769006	0.000574	2.94E-05	0.00E+00	5.74E-04	2.94E-05	0.00E+00	1.72E-04	5.29E-06	0.00E+00	6.51E-05	1.71E-06	0.00E+00
1962	458204.7	3769006	0.000581	2.98E-05	0.00E+00	5.81E-04	2.98E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.59E-05	1.73E-06	0.00E+00
1963	458214.7	3769006	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
1964	458224.7	3769006	0.000596	3.06E-05	0.00E+00	5.96E-04	3.06E-05	0.00E+00	1.79E-04	5.49E-06	0.00E+00	6.76E-05	1.77E-06	0.00E+00
1965	458234.7	3769006	0.000603	3.09E-05	0.00E+00	6.03E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.85E-05	1.80E-06	0.00E+00
1966	458034.7	3769016	0.000436	2.23E-05	0.00E+00	4.36E-04	2.23E-05	0.00E+00	1.30E-04	4.02E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
1967	458044.7	3769016	0.000442	2.27E-05	0.00E+00	4.42E-04	2.27E-05	0.00E+00	1.32E-04	4.08E-06	0.00E+00	5.02E-05	1.32E-06	0.00E+00
1968	458054.7	3769016	0.00045	2.3E-05	0.00E+00	4.50E-04	2.30E-05	0.00E+00	1.35E-04	4.14E-06	0.00E+00	5.10E-05	1.34E-06	0.00E+00
1969	458064.7	3769016	0.000457	2.34E-05	0.00E+00	4.57E-04	2.34E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.19E-05	1.36E-06	0.00E+00
1970	458074.7	3769016	0.000465	2.38E-05	0.00E+00	4.65E-04	2.38E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.38E-06	0.00E+00
1971	458084.7	3769016	0.000473	2.43E-05	0.00E+00	4.73E-04	2.43E-05	0.00E+00	1.42E-04	4.36E-06	0.00E+00	5.37E-05	1.41E-06	0.00E+00
1972	458094.7	3769016	0.000481	2.47E-05	0.00E+00	4.81E-04	2.47E-05	0.00E+00	1.44E-04	4.43E-06	0.00E+00	5.46E-05	1.43E-06	0.00E+00
1973	458104.7	3769016	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.46E-04	4.51E-06	0.00E+00	5.55E-05	1.45E-06	0.00E+00
1974	458144.7	3769016	0.000519	2.66E-05	0.00E+00	5.19E-04	2.66E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.89E-05	1.55E-06	0.00E+00
1975	458154.7	3769016	0.000527	2.7E-05	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.86E-06	0.00E+00	5.98E-05	1.57E-06	0.00E+00
1976	458164.7	3769016	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
1977	458174.7	3769016	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.00E-06	0.00E+00	6.16E-05	1.61E-06	0.00E+00
1978	458184.7	3769016	0.000549	2.82E-05	0.00E+00	5.49E-04	2.82E-05	0.00E+00	1.65E-04	5.07E-06	0.00E+00	6.23E-05	1.64E-06	0.00E+00
1979	458194.7	3769016	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.67E-04	5.13E-06	0.00E+00	6.31E-05	1.66E-06	0.00E+00
1980	458204.7	3769016	0.000563	2.89E-05	0.00E+00	5.63E-04	2.89E-05	0.00E+00	1.69E-04	5.19E-06	0.00E+00	6.39E-05	1.68E-06	0.00E+00
1981	458214.7	3769016	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.48E-05	1.70E-06	0.00E+00
1982	458224.7	3769016	0.000578	2.97E-05	0.00E+00	5.78E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
1983	458234.7	3769016	0.000586	3E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.75E-04	5.40E-06	0.00E+00	6.65E-05	1.74E-06	0.00E+00
1984	458034.7	3769026	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
1985	458044.7	3769026	0.000429	2.2E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.28E-04	3.95E-06	0.00E+00	4.86E-05	1.28E-06	0.00E+00
1986	458054.7	3769026	0.000436	2.23E-05	0.00E+00	4.36E-04	2.23E-05	0.00E+00	1.31E-04	4.02E-06	0.00E+00	4.95E-05	1.30E-06	0.00E+00
1987	458064.7	3769026	0.000443	2.27E-05	0.00E+00	4.43E-04	2.27E-05	0.00E+00	1.33E-04	4.09E-06	0.00E+00	5.03E-05	1.32E-06	0.00E+00
1988	458074.7	3769026	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
1989	458084.7	3769026	0.000459	2.35E-05	0.00E+00	4.59E-04	2.35E-05	0.00E+00	1.37E-04	4.23E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
1990	458094.7	3769026	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.40E-04	4.30E-06	0.00E+00	5.29E-05	1.39E-06	0.00E+00
1991	458104.7	3769026	0.000474	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
1992	458144.7	3769026	0.000502	2.58E-05	0.00E+00	5.02E-04	2.58E-05	0.00E+00	1.50E-04	4.63E-06	0.00E+00	5.70E-05	1.49E-06	0.00E+00
1993	458154.7	3769026	0.00051	2.62E-05	0.00E+00	5.10E-04	2.62E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.79E-05	1.52E-06	0.00E+00
1994	458164.7	3769026	0.000518	2.65E-05	0.00E+00	5.18E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
1995	458174.7	3769026	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.96E-05	1.56E-06	0.00E+00
1996	458184.7	3769026	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.91E-06	0.00E+00	6.04E-05	1.58E-06	0.00E+00
1997	458194.7	3769026	0.000539	2.77E-05	0.00E+00	5.39E-04	2.77E-05	0.00E+00	1.62E-04	4.97E-06	0.00E+00	6.12E-05	1.61E-06	0.00E+00
1998	458204.7	3769026	0.000547	2.8E-05	0.00E+00	5.47E-04	2.80E-05	0.00E+00	1.64E-04	5.04E-06	0.00E+00	6.20E-05	1.63E-06	0.00E+00
1999	458214.7	3769026	0.000554	2.84E-05	0.00E+00	5.54E-04	2.84E-05	0.00E+00	1.66E-04	5.11E-06	0.00E+00	6.29E-05	1.65E-06	0.00E+00

2000	458224.7	3769026	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
2001	458234.7	3769026	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.24E-06	0.00E+00	6.45E-05	1.69E-06	0.00E+00
2002	458034.7	3769036	0.000408	2.09E-05	0.00E+00	4.08E-04	2.09E-05	0.00E+00	1.22E-04	3.77E-06	0.00E+00	4.63E-05	1.22E-06	0.00E+00
2003	458044.7	3769036	0.000416	2.13E-05	0.00E+00	4.16E-04	2.13E-05	0.00E+00	1.24E-04	3.83E-06	0.00E+00	4.71E-05	1.24E-06	0.00E+00
2004	458054.7	3769036	0.000423	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
2005	458064.7	3769036	0.00043	2.2E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
2006	458074.7	3769036	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
2007	458084.7	3769036	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.05E-05	1.32E-06	0.00E+00
2008	458094.7	3769036	0.000452	2.32E-05	0.00E+00	4.52E-04	2.32E-05	0.00E+00	1.35E-04	4.17E-06	0.00E+00	5.13E-05	1.35E-06	0.00E+00
2009	458104.7	3769036	0.00046	2.36E-05	0.00E+00	4.60E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.21E-05	1.37E-06	0.00E+00
2010	458034.7	3769046	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
2011	458044.7	3769046	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
2012	458054.7	3769046	0.00041	2.1E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
2013	458064.7	3769046	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
2014	458074.7	3769046	0.000423	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
2015	458084.7	3769046	0.00043	2.21E-05	0.00E+00	4.30E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
2016	458094.7	3769046	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
2017	458104.7	3769046	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.04E-05	1.32E-06	0.00E+00
2018	458034.7	3769056	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.14E-06	0.00E+00
2019	458044.7	3769056	0.000391	2.01E-05	0.00E+00	3.91E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
2020	458054.7	3769056	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
2021	458064.7	3769056	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.58E-05	1.20E-06	0.00E+00
2022	458074.7	3769056	0.00041	2.1E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
2023	458084.7	3769056	0.000416	2.13E-05	0.00E+00	4.16E-04	2.13E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.72E-05	1.24E-06	0.00E+00
2024	458094.7	3769056	0.000423	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
2025	458104.7	3769056	0.00043	2.21E-05	0.00E+00	4.30E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
2026	458034.7	3769066	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
2027	458044.7	3769066	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.31E-05	1.13E-06	0.00E+00
2028	458054.7	3769066	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
2029	458064.7	3769066	0.000391	2.01E-05	0.00E+00	3.91E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
2030	458074.7	3769066	0.000397	2.03E-05	0.00E+00	3.97E-04	2.03E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
2031	458084.7	3769066	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.71E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
2032	458094.7	3769066	0.00041	2.1E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
2033	458104.7	3769066	0.000416	2.14E-05	0.00E+00	4.16E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
2034	458034.7	3769076	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
2035	458044.7	3769076	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.40E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
2036	458054.7	3769076	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
2037	458064.7	3769076	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.31E-05	1.13E-06	0.00E+00
2038	458074.7	3769076	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.15E-06	0.00E+00
2039	458084.7	3769076	0.000391	2.01E-05	0.00E+00	3.91E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
2040	458094.7	3769076	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
2041	458104.7	3769076	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.73E-06	0.00E+00	4.59E-05	1.20E-06	0.00E+00
2042	458034.7	3769086	0.000352	1.8E-05	0.00E+00	3.52E-04	1.80E-05	0.00E+00	1.05E-04	3.24E-06	0.00E+00	3.99E-05	1.05E-06	0.00E+00
2043	458044.7	3769086	0.000357	1.83E-05	0.00E+00	3.57E-04	1.83E-05	0.00E+00	1.07E-04	3.29E-06	0.00E+00	4.05E-05	1.06E-06	0.00E+00
2044	458054.7	3769086	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
2045	458064.7	3769086	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
2046	458074.7	3769086	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
2047	458084.7	3769086	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.31E-05	1.13E-06	0.00E+00
2048	458094.7	3769086	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
2049	458104.7	3769086	0.000393	2.01E-05	0.00E+00	3.93E-04	2.01E-05	0.00E+00	1.18E-04	3.62E-06	0.00E+00	4.46E-05	1.17E-06	0.00E+00
2050	458034.7	3769096	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
2051	458044.7	3769096	0.000346	1.78E-05	0.00E+00	3.46E-04	1.78E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.93E-05	1.03E-06	0.00E+00
2052	458054.7	3769096	0.000352	1.8E-05	0.00E+00	3.52E-04	1.80E-05	0.00E+00	1.05E-04	3.24E-06	0.00E+00	3.99E-05	1.05E-06	0.00E+00
2053	458064.7	3769096	0.000357	1.83E-05	0.00E+00	3.57E-04	1.83E-05	0.00E+00	1.07E-04	3.29E-06	0.00E+00	4.06E-05	1.06E-06	0.00E+00
2054	458074.7	3769096	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.35E-06	0.00E+00	4.12E-05	1.08E-06	0.00E+00
2055	458084.7	3769096	0.000369	1.89E-05	0.00E+00	3.69E-04	1.89E-05	0.00E+00	1.11E-04	3.40E-06	0.00E+00	4.19E-05	1.10E-06	0.00E+00
2056	458094.7	3769096	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
2057	458104.7	3769096	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.14E-06	0.00E+00
2058	458034.7	3769106	0.000332	1.7E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.94E-05	3.06E-06	0.00E+00	3.76E-05	9.87E-07	0.00E+00
2059	458044.7	3769106	0.000337	1.73E-05	0.00E+00	3.37E-04	1.73E-05	0.00E+00	1.01E-04	3.10E-06	0.00E+00	3.82E-05	1.00E-06	0.00E+00
2060	458054.7	3769106	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
2061	458064.7	3769106	0.000348	1.78E-05	0.00E+00	3.48E-04	1.78E-05	0.00E+00	1.04E-04	3.20E-06	0.00E+00	3.94E-05	1.03E-06	0.00E+00
2062	458074.7	3769106	0.000353	1.81E-05	0.00E+00	3.53E-04	1.81E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
2063	458084.7	3769106	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.08E-04	3.31E-06	0.00E+00	4.07E-05	1.07E-06	0.00E+00
2064	458094.7	3769106	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.09E-06	0.00E+00
2065	458104.7	3769106	0.000371	1.9E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
2066	458034.7	3769116	0.000322	1.65E-05	0.00E+00	3.22E-04	1.65E-05	0.00E+00	9.66E-05	2.97E-06	0.00E+00	3.66E-05	9.59E-07	0.00E+00
2067	458044.7	3769116	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.81E-05	3.02E-06	0.00E+00	3.71E-05	9.74E-07	0.00E+00
2068	458054.7	3769116	0.000333	1.7E-05	0.00E+00	3.33E-04	1.70E-05	0.00E+00	9.96E-05	3.07E-06	0.00E+00	3.77E-05	9.90E-07	0.00E+00
2069	458064.7	3769116	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.83E-05	1.01E-06	0.00E+00
2070	458074.7	3769116	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
2071	458084.7	3769116	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.05E-04	3.22E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
2072	458094.7	3769116	0.000355	1.82E-05	0.00E+00	3.55E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.03E-05	1.06E-06	0.00E+00
2073	458104.7	3769116	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
2074	458034.7	3769126	0.000313	1.61E-05	0.00E+00	3.13E-04	1.61E-05	0.00E+00	9.39E-05	2.89E-06	0.00E+00	3.56E-05	9.33E-07	0.00E+00
2075	458044.7	3769126	0.000318	1.63E-05	0.00E+00	3.18E-04	1.63E-05	0.00E+00	9.54E-05	2.94E-06	0.00E+00	3.61E-05	9.48E-07	0.00E+00
2076	458054.7	3769126	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.69E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
2077	458064.7	3769126	0.000329	1.69E-05	0.00E+00	3.29E-04	1.69E-05	0.00E+00	9.85E-05	3.03E-06	0.00E+00	3.73E-05	9.79E-07	0.00E+00
2078	458074.7	3769126	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.95E-07	0.00E+00
2079	458084.7	3769126	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
2080	458094.7	3769126	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
2081	458104.7	3769126	0.000351	1.8E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
2082	458034.7	3769136	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.14E-05	2.81E-06	0.00E+00	3.46E-05	9.08E-07	0.00E+00
2083	458044.7	3769136	0.00031	1.59E-05	0.00E+00	3.10E-04	1.59E-05	0.00E+00	9.29E-05	2.86E-06	0.00E+00	3.52E-05	9.23E-07	0.00E+00
2084	458054.7	3769136	0.000315	1.62E-05	0.00E+00	3.15E-04	1.62E-05	0.00E+00	9.44E-05	2.90E-06	0.00E+00	3.57E-05	9.38E-07	0.00E+00
2085	458064.7	3769136	0.00032	1.64E-05	0.00E+00	3.20E-04	1.64E-05	0.00E+00	9.59E-05	2.95E-06	0.00E+00	3.63E-05	9.53E-07	0.00E+00
2086	458074.7	3769136	0.000325	1.67E-05	0.00E+00	3.25E-04	1.67E-05	0.00E+00	9.74E-05	3.00E-06	0.00E+00	3.69E-05	9.68E-07	0.00E+00
2087	458084.7	3769136	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.89E-05	3.05E-06	0.00E+00	3.75E-05	9.83E-07	0.00E+00
2088	458094.7	3769136	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.98E-07	0.00E+00
2089	458104.7	3769136	0.00034	1.75E-05	0.00E+00	3.40E-04	1.75E-05	0.00E+00	1.02E-04	3.14E-06	0.00E+00	3.86E-05	1.01E-06	0.00E+00
2090	458034.7	3769146	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.91E-05	2.74E-06	0.00E+00	3.37E-05	8.85E-07	0.00E+00

2091	458044.7	3769146	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.05E-05	2.78E-06	0.00E+00	3.43E-05	8.99E-07	0.00E+00
2092	458054.7	3769146	0.000307	1.57E-05	0.00E+00	3.07E-04	1.57E-05	0.00E+00	9.19E-05	2.83E-06	0.00E+00	3.48E-05	9.13E-07	0.00E+00
2093	458064.7	3769146	0.000312	1.6E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.34E-05	2.87E-06	0.00E+00	3.54E-05	9.28E-07	0.00E+00
2094	458074.7	3769146	0.000317	1.62E-05	0.00E+00	3.17E-04	1.62E-05	0.00E+00	9.49E-05	2.92E-06	0.00E+00	3.59E-05	9.42E-07	0.00E+00
2095	458084.7	3769146	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.63E-05	2.96E-06	0.00E+00	3.65E-05	9.56E-07	0.00E+00
2096	458094.7	3769146	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.76E-05	3.00E-06	0.00E+00	3.70E-05	9.70E-07	0.00E+00
2097	458104.7	3769146	0.000331	1.69E-05	0.00E+00	3.31E-04	1.69E-05	0.00E+00	9.90E-05	3.05E-06	0.00E+00	3.75E-05	9.84E-07	0.00E+00
2098	458034.7	3769156	0.00029	1.49E-05	0.00E+00	2.90E-04	1.49E-05	0.00E+00	8.68E-05	2.67E-06	0.00E+00	3.29E-05	8.62E-07	0.00E+00
2099	458044.7	3769156	0.000294	1.51E-05	0.00E+00	2.94E-04	1.51E-05	0.00E+00	8.81E-05	2.71E-06	0.00E+00	3.34E-05	8.76E-07	0.00E+00
2100	458054.7	3769156	0.000299	1.53E-05	0.00E+00	2.99E-04	1.53E-05	0.00E+00	8.95E-05	2.76E-06	0.00E+00	3.39E-05	8.89E-07	0.00E+00
2101	458064.7	3769156	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.09E-05	2.80E-06	0.00E+00	3.44E-05	9.04E-07	0.00E+00
2102	458074.7	3769156	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.24E-05	2.84E-06	0.00E+00	3.50E-05	9.18E-07	0.00E+00
2103	458084.7	3769156	0.000313	1.6E-05	0.00E+00	3.13E-04	1.60E-05	0.00E+00	9.37E-05	2.88E-06	0.00E+00	3.55E-05	9.31E-07	0.00E+00
2104	458094.7	3769156	0.000317	1.62E-05	0.00E+00	3.17E-04	1.62E-05	0.00E+00	9.49E-05	2.92E-06	0.00E+00	3.60E-05	9.43E-07	0.00E+00
2105	458104.7	3769156	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.62E-05	2.96E-06	0.00E+00	3.64E-05	9.55E-07	0.00E+00
2106	458034.7	3769166	0.000282	1.45E-05	0.00E+00	2.82E-04	1.45E-05	0.00E+00	8.46E-05	2.60E-06	0.00E+00	3.20E-05	8.41E-07	0.00E+00
2107	458044.7	3769166	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.59E-05	2.64E-06	0.00E+00	3.25E-05	8.54E-07	0.00E+00
2108	458054.7	3769166	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.72E-05	2.68E-06	0.00E+00	3.30E-05	8.66E-07	0.00E+00
2109	458064.7	3769166	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.85E-05	2.72E-06	0.00E+00	3.35E-05	8.79E-07	0.00E+00
2110	458074.7	3769166	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.98E-05	2.76E-06	0.00E+00	3.40E-05	8.92E-07	0.00E+00
2111	458084.7	3769166	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.11E-05	2.80E-06	0.00E+00	3.45E-05	9.05E-07	0.00E+00
2112	458094.7	3769166	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
2113	458104.7	3769166	0.000313	1.6E-05	0.00E+00	3.13E-04	1.60E-05	0.00E+00	9.36E-05	2.88E-06	0.00E+00	3.55E-05	9.30E-07	0.00E+00
2114	458034.7	3769176	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.25E-05	2.54E-06	0.00E+00	3.13E-05	8.20E-07	0.00E+00
2115	458044.7	3769176	0.00028	1.43E-05	0.00E+00	2.80E-04	1.43E-05	0.00E+00	8.38E-05	2.58E-06	0.00E+00	3.17E-05	8.32E-07	0.00E+00
2116	458054.7	3769176	0.000284	1.45E-05	0.00E+00	2.84E-04	1.45E-05	0.00E+00	8.50E-05	2.62E-06	0.00E+00	3.22E-05	8.44E-07	0.00E+00
2117	458064.7	3769176	0.000288	1.47E-05	0.00E+00	2.88E-04	1.47E-05	0.00E+00	8.61E-05	2.65E-06	0.00E+00	3.26E-05	8.56E-07	0.00E+00
2118	458074.7	3769176	0.000292	1.49E-05	0.00E+00	2.92E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.68E-07	0.00E+00
2119	458084.7	3769176	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.86E-05	2.73E-06	0.00E+00	3.35E-05	8.80E-07	0.00E+00
2120	458094.7	3769176	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.98E-05	2.77E-06	0.00E+00	3.40E-05	8.93E-07	0.00E+00
2121	458104.7	3769176	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.45E-05	9.06E-07	0.00E+00
2122	458034.7	3769186	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.05E-05	2.48E-06	0.00E+00	3.05E-05	8.00E-07	0.00E+00
2123	458044.7	3769186	0.000273	1.4E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.51E-06	0.00E+00	3.10E-05	8.12E-07	0.00E+00
2124	458054.7	3769186	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.14E-05	8.23E-07	0.00E+00
2125	458064.7	3769186	0.00028	1.44E-05	0.00E+00	2.80E-04	1.44E-05	0.00E+00	8.39E-05	2.58E-06	0.00E+00	3.18E-05	8.33E-07	0.00E+00
2126	458074.7	3769186	0.000284	1.45E-05	0.00E+00	2.84E-04	1.45E-05	0.00E+00	8.49E-05	2.61E-06	0.00E+00	3.22E-05	8.44E-07	0.00E+00
2127	458084.7	3769186	0.000288	1.47E-05	0.00E+00	2.88E-04	1.47E-05	0.00E+00	8.61E-05	2.65E-06	0.00E+00	3.26E-05	8.56E-07	0.00E+00
2128	458094.7	3769186	0.000292	1.5E-05	0.00E+00	2.92E-04	1.50E-05	0.00E+00	8.74E-05	2.69E-06	0.00E+00	3.31E-05	8.69E-07	0.00E+00
2129	458104.7	3769186	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.88E-05	2.73E-06	0.00E+00	3.36E-05	8.82E-07	0.00E+00
2130	458034.7	3769196	0.000262	1.34E-05	0.00E+00	2.62E-04	1.34E-05	0.00E+00	7.84E-05	2.41E-06	0.00E+00	2.97E-05	7.78E-07	0.00E+00
2131	458044.7	3769196	0.000266	1.36E-05	0.00E+00	2.66E-04	1.36E-05	0.00E+00	7.95E-05	2.45E-06	0.00E+00	3.01E-05	7.90E-07	0.00E+00
2132	458054.7	3769196	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.06E-05	2.48E-06	0.00E+00	3.05E-05	8.01E-07	0.00E+00
2133	458064.7	3769196	0.000273	1.4E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.51E-06	0.00E+00	3.10E-05	8.12E-07	0.00E+00
2134	458074.7	3769196	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.14E-05	8.23E-07	0.00E+00
2135	458084.7	3769196	0.00028	1.44E-05	0.00E+00	2.80E-04	1.44E-05	0.00E+00	8.40E-05	2.58E-06	0.00E+00	3.18E-05	8.34E-07	0.00E+00
2136	458094.7	3769196	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.53E-05	2.62E-06	0.00E+00	3.23E-05	8.47E-07	0.00E+00
2137	458104.7	3769196	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.66E-05	2.66E-06	0.00E+00	3.28E-05	8.60E-07	0.00E+00
2138	458034.7	3769206	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.63E-05	2.35E-06	0.00E+00	2.89E-05	7.58E-07	0.00E+00
2139	458044.7	3769206	0.000258	1.33E-05	0.00E+00	2.58E-04	1.33E-05	0.00E+00	7.74E-05	2.38E-06	0.00E+00	2.93E-05	7.69E-07	0.00E+00
2140	458054.7	3769206	0.000262	1.34E-05	0.00E+00	2.62E-04	1.34E-05	0.00E+00	7.85E-05	2.42E-06	0.00E+00	2.97E-05	7.80E-07	0.00E+00
2141	458064.7	3769206	0.000266	1.36E-05	0.00E+00	2.66E-04	1.36E-05	0.00E+00	7.96E-05	2.45E-06	0.00E+00	3.02E-05	7.91E-07	0.00E+00
2142	458074.7	3769206	0.00027	1.38E-05	0.00E+00	2.70E-04	1.38E-05	0.00E+00	8.07E-05	2.49E-06	0.00E+00	3.06E-05	8.02E-07	0.00E+00
2143	458084.7	3769206	0.000274	1.4E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.19E-05	2.52E-06	0.00E+00	3.10E-05	8.14E-07	0.00E+00
2144	458034.7	3769216	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.43E-05	2.29E-06	0.00E+00	2.82E-05	7.38E-07	0.00E+00
2145	458044.7	3769216	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.54E-05	2.32E-06	0.00E+00	2.86E-05	7.49E-07	0.00E+00
2146	458054.7	3769216	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.65E-05	2.35E-06	0.00E+00	2.90E-05	7.60E-07	0.00E+00
2147	458064.7	3769216	0.000259	1.33E-05	0.00E+00	2.59E-04	1.33E-05	0.00E+00	7.76E-05	2.39E-06	0.00E+00	2.94E-05	7.71E-07	0.00E+00
2148	458074.7	3769216	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.88E-05	2.42E-06	0.00E+00	2.98E-05	7.83E-07	0.00E+00
2149	458084.7	3769216	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	7.99E-05	2.46E-06	0.00E+00	3.03E-05	7.94E-07	0.00E+00
2150	458034.7	3769256	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.77E-05	2.08E-06	0.00E+00	2.56E-05	6.72E-07	0.00E+00
2151	458044.7	3769256	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.86E-05	2.11E-06	0.00E+00	2.60E-05	6.81E-07	0.00E+00
2152	458054.7	3769256	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.95E-05	2.14E-06	0.00E+00	2.63E-05	6.91E-07	0.00E+00
2153	458064.7	3769256	0.000235	1.21E-05	0.00E+00	2.35E-04	1.21E-05	0.00E+00	7.05E-05	2.17E-06	0.00E+00	2.67E-05	7.01E-07	0.00E+00
2154	458074.7	3769256	0.000239	1.22E-05	0.00E+00	2.39E-04	1.22E-05	0.00E+00	7.15E-05	2.20E-06	0.00E+00	2.71E-05	7.11E-07	0.00E+00
2155	458084.7	3769256	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.25E-05	2.23E-06	0.00E+00	2.75E-05	7.20E-07	0.00E+00
2156	458094.7	3769256	0.000245	1.26E-05	0.00E+00	2.45E-04	1.26E-05	0.00E+00	7.34E-05	2.26E-06	0.00E+00	2.78E-05	7.29E-07	0.00E+00
2157	458104.7	3769256	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.43E-05	2.29E-06	0.00E+00	2.81E-05	7.38E-07	0.00E+00
2158	458194.7	3769256	0.000282	1.44E-05	0.00E+00	2.82E-04	1.44E-05	0.00E+00	8.43E-05	2.60E-06	0.00E+00	3.19E-05	8.38E-07	0.00E+00
2159	458204.7	3769256	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.54E-05	2.63E-06	0.00E+00	3.24E-05	8.49E-07	0.00E+00
2160	458214.7	3769256	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.65E-05	2.66E-06	0.00E+00	3.28E-05	8.59E-07	0.00E+00
2161	458224.7	3769256	0.000292	1.5E-05	0.00E+00	2.92E-04	1.50E-05	0.00E+00	8.76E-05	2.70E-06	0.00E+00	3.32E-05	8.70E-07	0.00E+00
2162	458234.7	3769256	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.89E-05	2.73E-06	0.00E+00	3.37E-05	8.83E-07	0.00E+00
2163	458034.7	3769266	0.00022	1.13E-05	0.00E+00	2.20E-04	1.13E-05	0.00E+00	6.60E-05	2.03E-06	0.00E+00	2.50E-05	6.56E-07	0.00E+00
2164	458044.7	3769266	0.000223	1.15E-05	0.00E+00	2.23E-04	1.15E-05	0.00E+00	6.69E-05	2.06E-06	0.00E+00	2.53E-05	6.65E-07	0.00E+00
2165	458054.7	3769266	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.78E-05	2.09E-06	0.00E+00	2.57E-05	6.74E-07	0.00E+00
2166	458064.7	3769266	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.83E-07	0.00E+00
2167	458074.7	3769266	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.15E-06	0.00E+00	2.64E-05	6.93E-07	0.00E+00
2168	458084.7	3769266	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.07E-05	2.18E-06	0.00E+00	2.68E-05	7.02E-07	0.00E+00
2169	458094.7	3769266	0.000239	1.23E-05	0.00E+00	2.39E-04	1.23E-05	0.00E+00	7.16E-05	2.20E-06	0.00E+00	2.71E-05	7.11E-07	0.00E+00
2170	458104.7	3769266	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.26E-05	2.23E-06	0.00E+00	2.75E-05	7.21E-07	0.00E+00
2171	458154.7	3769266	0.000259	1.33E-05	0.00E+00	2.59E-04	1.33E-05	0.00E+00	7.77E-05	2.39E-06	0.00E+00	2.94E-05	7.72E-07	0.00E+00
2172	458164.7	3769266	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.89E-05	2.43E-06	0.00E+00	2.99E-05	7.84E-07	0.00E+00
2173	458174.7	3769266	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.01E-05	2.46E-06	0.00E+00	3.03E-05	7.96E-07	0.00E+00
2174	458184.7	3769266	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.11E-05	2.50E-06	0.00E+00	3.07E-05	8.06E-07	0.00E+00
2175	458194.7	3769266	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.16E-07	0.00E+00
2176	458204.7	3769266	0.000278	1.42E-05	0.00E+00	2.78E-04	1.42E-05	0.00E+00	8.32E-05	2.56E-06	0.00E+00	3.15E-05	8.27E-07	0.00E+00
2177	458214.7	3769266	0.000281	1.44E-05	0.00E+00	2.81E-04	1.44E-05	0.00E+00	8.43E-05	2.59E-06	0.00E+00	3.19E-05	8.38E-07	0.00E+00
2178	458224.7	3769266	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.54E-05	2.63E-06	0.00E+00	3.24E-05	8.49E-07	0.00E+00
2179	458234.7	3769266	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.67E-05	2.67E-06	0.00E+00	3.28E-05	8.61E-07	0.00E+00
2180	458034.7	3769276	0.000215	1.1E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
2181	458044.7	3769276	0.000218	1.12E-05	0.00E+00	2.18E-04	1.12E-05	0.00E+00	6.53E-05	2.01E-06	0.00E+00	2.47E-05	6.49E-07	0.00E+00

2182	458054.7	3769276	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.62E-05	2.04E-06	0.00E+00	2.51E-05	6.58E-07	0.00E+00
2183	458064.7	3769276	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.71E-05	2.06E-06	0.00E+00	2.54E-05	6.67E-07	0.00E+00
2184	458074.7	3769276	0.000227	1.16E-05	0.00E+00	2.27E-04	1.16E-05	0.00E+00	6.80E-05	2.09E-06	0.00E+00	2.58E-05	6.76E-07	0.00E+00
2185	458084.7	3769276	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.90E-05	2.12E-06	0.00E+00	2.61E-05	6.85E-07	0.00E+00
2186	458094.7	3769276	0.000233	1.2E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.99E-05	2.15E-06	0.00E+00	2.65E-05	6.95E-07	0.00E+00
2187	458104.7	3769276	0.000237	1.21E-05	0.00E+00	2.37E-04	1.21E-05	0.00E+00	7.09E-05	2.18E-06	0.00E+00	2.69E-05	7.04E-07	0.00E+00
2188	458154.7	3769276	0.000253	1.3E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.58E-05	2.33E-06	0.00E+00	2.87E-05	7.53E-07	0.00E+00
2189	458164.7	3769276	0.000257	1.32E-05	0.00E+00	2.57E-04	1.32E-05	0.00E+00	7.71E-05	2.37E-06	0.00E+00	2.92E-05	7.66E-07	0.00E+00
2190	458174.7	3769276	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.81E-05	2.41E-06	0.00E+00	2.96E-05	7.76E-07	0.00E+00
2191	458184.7	3769276	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.91E-05	2.43E-06	0.00E+00	3.00E-05	7.86E-07	0.00E+00
2192	458194.7	3769276	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.00E-05	2.46E-06	0.00E+00	3.03E-05	7.95E-07	0.00E+00
2193	458204.7	3769276	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.10E-05	2.49E-06	0.00E+00	3.07E-05	8.05E-07	0.00E+00
2194	458214.7	3769276	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.22E-05	2.53E-06	0.00E+00	3.11E-05	8.17E-07	0.00E+00
2195	458224.7	3769276	0.000278	1.43E-05	0.00E+00	2.78E-04	1.43E-05	0.00E+00	8.34E-05	2.57E-06	0.00E+00	3.16E-05	8.28E-07	0.00E+00
2196	458234.7	3769276	0.000282	1.45E-05	0.00E+00	2.82E-04	1.45E-05	0.00E+00	8.45E-05	2.60E-06	0.00E+00	3.20E-05	8.40E-07	0.00E+00
2197	458034.7	3769286	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.31E-05	1.94E-06	0.00E+00	2.39E-05	6.27E-07	0.00E+00
2198	458044.7	3769286	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.39E-05	1.97E-06	0.00E+00	2.42E-05	6.35E-07	0.00E+00
2199	458054.7	3769286	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.47E-05	1.99E-06	0.00E+00	2.45E-05	6.43E-07	0.00E+00
2200	458064.7	3769286	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.55E-05	2.02E-06	0.00E+00	2.48E-05	6.51E-07	0.00E+00
2201	458074.7	3769286	0.000222	1.14E-05	0.00E+00	2.22E-04	1.14E-05	0.00E+00	6.64E-05	2.04E-06	0.00E+00	2.51E-05	6.60E-07	0.00E+00
2202	458084.7	3769286	0.000225	1.15E-05	0.00E+00	2.25E-04	1.15E-05	0.00E+00	6.73E-05	2.07E-06	0.00E+00	2.55E-05	6.69E-07	0.00E+00
2203	458094.7	3769286	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.83E-05	2.10E-06	0.00E+00	2.59E-05	6.78E-07	0.00E+00
2204	458104.7	3769286	0.000231	1.19E-05	0.00E+00	2.31E-04	1.19E-05	0.00E+00	6.93E-05	2.13E-06	0.00E+00	2.62E-05	6.88E-07	0.00E+00
2205	458154.7	3769286	0.000247	1.27E-05	0.00E+00	2.47E-04	1.27E-05	0.00E+00	7.39E-05	2.28E-06	0.00E+00	2.80E-05	7.35E-07	0.00E+00
2206	458164.7	3769286	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.51E-05	2.31E-06	0.00E+00	2.85E-05	7.46E-07	0.00E+00
2207	458174.7	3769286	0.000254	1.3E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.62E-05	2.34E-06	0.00E+00	2.89E-05	7.57E-07	0.00E+00
2208	458184.7	3769286	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.71E-05	2.37E-06	0.00E+00	2.92E-05	7.66E-07	0.00E+00
2209	458194.7	3769286	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.81E-05	2.40E-06	0.00E+00	2.96E-05	7.76E-07	0.00E+00
2210	458204.7	3769286	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.91E-05	2.44E-06	0.00E+00	3.00E-05	7.86E-07	0.00E+00
2211	458214.7	3769286	0.000268	1.37E-05	0.00E+00	2.68E-04	1.37E-05	0.00E+00	8.02E-05	2.47E-06	0.00E+00	3.04E-05	7.97E-07	0.00E+00
2212	458224.7	3769286	0.000272	1.39E-05	0.00E+00	2.72E-04	1.39E-05	0.00E+00	8.14E-05	2.50E-06	0.00E+00	3.08E-05	8.09E-07	0.00E+00
2213	458234.7	3769286	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.25E-05	2.54E-06	0.00E+00	3.13E-05	8.20E-07	0.00E+00
2214	458034.7	3769296	0.000206	1.06E-05	0.00E+00	2.06E-04	1.06E-05	0.00E+00	6.18E-05	1.90E-06	0.00E+00	2.34E-05	6.14E-07	0.00E+00
2215	458044.7	3769296	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.26E-05	1.93E-06	0.00E+00	2.37E-05	6.22E-07	0.00E+00
2216	458054.7	3769296	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
2217	458064.7	3769296	0.000214	1.1E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.41E-05	1.97E-06	0.00E+00	2.43E-05	6.37E-07	0.00E+00
2218	458074.7	3769296	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.48E-05	2.00E-06	0.00E+00	2.46E-05	6.44E-07	0.00E+00
2219	458084.7	3769296	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.57E-05	2.02E-06	0.00E+00	2.49E-05	6.53E-07	0.00E+00
2220	458094.7	3769296	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.67E-05	2.05E-06	0.00E+00	2.53E-05	6.63E-07	0.00E+00
2221	458104.7	3769296	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.77E-05	2.08E-06	0.00E+00	2.57E-05	6.73E-07	0.00E+00
2222	458154.7	3769296	0.000241	1.24E-05	0.00E+00	2.41E-04	1.24E-05	0.00E+00	7.22E-05	2.22E-06	0.00E+00	2.73E-05	7.17E-07	0.00E+00
2223	458164.7	3769296	0.000245	1.25E-05	0.00E+00	2.45E-04	1.25E-05	0.00E+00	7.32E-05	2.25E-06	0.00E+00	2.77E-05	7.28E-07	0.00E+00
2224	458174.7	3769296	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.43E-05	2.29E-06	0.00E+00	2.81E-05	7.38E-07	0.00E+00
2225	458184.7	3769296	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.53E-05	2.32E-06	0.00E+00	2.85E-05	7.48E-07	0.00E+00
2226	458194.7	3769296	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.62E-05	2.35E-06	0.00E+00	2.89E-05	7.57E-07	0.00E+00
2227	458204.7	3769296	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.73E-05	2.38E-06	0.00E+00	2.93E-05	7.68E-07	0.00E+00
2228	458214.7	3769296	0.000262	1.34E-05	0.00E+00	2.62E-04	1.34E-05	0.00E+00	7.84E-05	2.41E-06	0.00E+00	2.97E-05	7.79E-07	0.00E+00
2229	458224.7	3769296	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.95E-05	2.45E-06	0.00E+00	3.01E-05	7.90E-07	0.00E+00
2230	458234.7	3769296	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.06E-05	2.48E-06	0.00E+00	3.05E-05	8.01E-07	0.00E+00
2231	458034.7	3769306	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.05E-05	1.86E-06	0.00E+00	2.29E-05	6.01E-07	0.00E+00
2232	458044.7	3769306	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.13E-05	1.89E-06	0.00E+00	2.32E-05	6.09E-07	0.00E+00
2233	458054.7	3769306	0.000207	1.06E-05	0.00E+00	2.07E-04	1.06E-05	0.00E+00	6.20E-05	1.91E-06	0.00E+00	2.35E-05	6.16E-07	0.00E+00
2234	458064.7	3769306	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.26E-05	1.93E-06	0.00E+00	2.37E-05	6.22E-07	0.00E+00
2235	458074.7	3769306	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
2236	458084.7	3769306	0.000214	1.1E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.42E-05	1.97E-06	0.00E+00	2.43E-05	6.38E-07	0.00E+00
2237	458094.7	3769306	0.000218	1.12E-05	0.00E+00	2.18E-04	1.12E-05	0.00E+00	6.52E-05	2.01E-06	0.00E+00	2.47E-05	6.48E-07	0.00E+00
2238	458104.7	3769306	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.62E-05	2.04E-06	0.00E+00	2.51E-05	6.58E-07	0.00E+00
2239	458154.7	3769306	0.000235	1.21E-05	0.00E+00	2.35E-04	1.21E-05	0.00E+00	7.05E-05	2.17E-06	0.00E+00	2.67E-05	7.00E-07	0.00E+00
2240	458164.7	3769306	0.000239	1.22E-05	0.00E+00	2.39E-04	1.22E-05	0.00E+00	7.14E-05	2.20E-06	0.00E+00	2.71E-05	7.10E-07	0.00E+00
2241	458174.7	3769306	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.24E-05	2.23E-06	0.00E+00	2.74E-05	7.20E-07	0.00E+00
2242	458184.7	3769306	0.000245	1.26E-05	0.00E+00	2.45E-04	1.26E-05	0.00E+00	7.34E-05	2.26E-06	0.00E+00	2.78E-05	7.30E-07	0.00E+00
2243	458194.7	3769306	0.000249	1.27E-05	0.00E+00	2.49E-04	1.27E-05	0.00E+00	7.45E-05	2.29E-06	0.00E+00	2.82E-05	7.40E-07	0.00E+00
2244	458204.7	3769306	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.55E-05	2.32E-06	0.00E+00	2.86E-05	7.50E-07	0.00E+00
2245	458214.7	3769306	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.66E-05	2.36E-06	0.00E+00	2.90E-05	7.61E-07	0.00E+00
2246	458224.7	3769306	0.000259	1.33E-05	0.00E+00	2.59E-04	1.33E-05	0.00E+00	7.76E-05	2.39E-06	0.00E+00	2.94E-05	7.71E-07	0.00E+00
2247	458234.7	3769306	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.87E-05	2.42E-06	0.00E+00	2.98E-05	7.82E-07	0.00E+00
2248	458034.7	3769316	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.91E-05	1.82E-06	0.00E+00	2.24E-05	5.87E-07	0.00E+00
2249	458044.7	3769316	0.0002	1.02E-05	0.00E+00	2.00E-04	1.02E-05	0.00E+00	5.99E-05	1.84E-06	0.00E+00	2.27E-05	5.95E-07	0.00E+00
2250	458054.7	3769316	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.06E-05	1.86E-06	0.00E+00	2.29E-05	6.02E-07	0.00E+00
2251	458064.7	3769316	0.000204	1.05E-05	0.00E+00	2.04E-04	1.05E-05	0.00E+00	6.12E-05	1.88E-06	0.00E+00	2.32E-05	6.08E-07	0.00E+00
2252	458074.7	3769316	0.000206	1.06E-05	0.00E+00	2.06E-04	1.06E-05	0.00E+00	6.18E-05	1.90E-06	0.00E+00	2.34E-05	6.14E-07	0.00E+00
2253	458084.7	3769316	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.26E-05	1.93E-06	0.00E+00	2.37E-05	6.22E-07	0.00E+00
2254	458094.7	3769316	0.000212	1.09E-05	0.00E+00	2.12E-04	1.09E-05	0.00E+00	6.36E-05	1.96E-06	0.00E+00	2.41E-05	6.32E-07	0.00E+00
2255	458104.7	3769316	0.000215	1.1E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.45E-05	1.99E-06	0.00E+00	2.44E-05	6.41E-07	0.00E+00
2256	458164.7	3769316	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
2257	458174.7	3769316	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.06E-05	2.17E-06	0.00E+00	2.68E-05	7.02E-07	0.00E+00
2258	458184.7	3769316	0.000239	1.23E-05	0.00E+00	2.39E-04	1.23E-05	0.00E+00	7.16E-05	2.20E-06	0.00E+00	2.71E-05	7.12E-07	0.00E+00
2259	458194.7	3769316	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.26E-05	2.23E-06	0.00E+00	2.75E-05	7.21E-07	0.00E+00
2260	458204.7	3769316	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.36E-05	2.27E-06	0.00E+00	2.79E-05	7.31E-07	0.00E+00
2261	458214.7	3769316	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.83E-05	7.41E-07	0.00E+00
2262	458224.7	3769316	0.000253	1.3E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
2263	458234.7	3769316	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.67E-05	2.36E-06	0.00E+00	2.91E-05	7.62E-07	0.00E+00
2264	458034.7	3769326	0.000193	9.89E-06	0.00E+00	1.93E-04	9.89E-06	0.00E+00	5.78E-05	1.78E-06	0.00E+00	2.19E-05	5.74E-07	0.00E+00
2265	458044.7	3769326	0.000195	1E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.85E-05	1.80E-06	0.00E+00	2.22E-05	5.81E-07	0.00E+00
2266	458054.7	3769326	0.000198	1.01E-05	0.00E+00	1.98E-04	1.01E-05	0.00E+00	5.92E-05	1.82E-06	0.00E+00	2.24E-05	5.88E-07	0.00E+00
2267	458064.7	3769326	0.0002	1.02E-05	0.00E+00	2.00E-04	1.02E-05	0.00E+00	5.98E-05	1.84E-06	0.00E+00	2.27E-05	5.94E-07	0.00E+00
2268	458074.7	3769326	0.000202	1.03E-05	0.00E+00	2.02E-04	1.03E-05	0.00E+00	6.04E-05	1.86E-06	0.00E+00	2.29E-05	6.00E-07	0.00E+00
2269	458084.7	3769326	0.000204	1.05E-05	0.00E+00	2.04E-04	1.05E-05	0.00E+00	6.12E-05	1.88E-06	0.00E+00	2.32E-05	6.08E-07	0.00E+00
2270	458094.7	3769326	0.000207	1.06E-05	0.00E+00	2.07E-04	1.06E-05	0.00E+00	6.20E-05	1.91E-06	0.00E+00	2.35E-05	6.16E-07	0.00E+00
2271	458104.7	3769326	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.29E-05	1.94E-06	0.00E+00	2.38E-05	6.25E-07	0.00E+00
2272	458164.7	3769326	0.000227	1.16E-05	0.00E+00	2.27E-04	1.16E-05	0.00E+00	6.80E-05	2.09E-06	0.00E+00	2.57E-05	6.75E-07	0.00E+00

2273	458174.7	3769326	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.89E-05	2.12E-06	0.00E+00	2.61E-05	6.85E-07	0.00E+00
2274	458184.7	3769326	0.000233	1.2E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.98E-05	2.15E-06	0.00E+00	2.65E-05	6.94E-07	0.00E+00
2275	458194.7	3769326	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.08E-05	2.18E-06	0.00E+00	2.68E-05	7.03E-07	0.00E+00
2276	458204.7	3769326	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.18E-05	2.21E-06	0.00E+00	2.72E-05	7.13E-07	0.00E+00
2277	458214.7	3769326	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.28E-05	2.24E-06	0.00E+00	2.76E-05	7.23E-07	0.00E+00
2278	458224.7	3769326	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.38E-05	2.27E-06	0.00E+00	2.79E-05	7.33E-07	0.00E+00
2279	458234.7	3769326	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.48E-05	2.30E-06	0.00E+00	2.83E-05	7.43E-07	0.00E+00
2280	458034.7	3769336	0.000189	9.68E-06	0.00E+00	1.89E-04	9.68E-06	0.00E+00	5.65E-05	1.74E-06	0.00E+00	2.14E-05	5.62E-07	0.00E+00
2281	458044.7	3769336	0.000191	9.79E-06	0.00E+00	1.91E-04	9.79E-06	0.00E+00	5.72E-05	1.76E-06	0.00E+00	2.17E-05	5.69E-07	0.00E+00
2282	458054.7	3769336	0.000193	9.9E-06	0.00E+00	1.93E-04	9.90E-06	0.00E+00	5.79E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
2283	458064.7	3769336	0.000195	1E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.84E-05	1.80E-06	0.00E+00	2.21E-05	5.81E-07	0.00E+00
2284	458074.7	3769336	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.90E-05	1.82E-06	0.00E+00	2.24E-05	5.87E-07	0.00E+00
2285	458084.7	3769336	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
2286	458094.7	3769336	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.05E-05	1.86E-06	0.00E+00	2.29E-05	6.01E-07	0.00E+00
2287	458104.7	3769336	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.13E-05	1.89E-06	0.00E+00	2.32E-05	6.09E-07	0.00E+00
2288	458164.7	3769336	0.000221	1.14E-05	0.00E+00	2.21E-04	1.14E-05	0.00E+00	6.63E-05	2.04E-06	0.00E+00	2.51E-05	6.59E-07	0.00E+00
2289	458174.7	3769336	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.72E-05	2.07E-06	0.00E+00	2.55E-05	6.68E-07	0.00E+00
2290	458184.7	3769336	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.81E-05	2.10E-06	0.00E+00	2.58E-05	6.77E-07	0.00E+00
2291	458194.7	3769336	0.000231	1.18E-05	0.00E+00	2.31E-04	1.18E-05	0.00E+00	6.91E-05	2.13E-06	0.00E+00	2.62E-05	6.86E-07	0.00E+00
2292	458204.7	3769336	0.000234	1.2E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.00E-05	2.15E-06	0.00E+00	2.65E-05	6.96E-07	0.00E+00
2293	458214.7	3769336	0.000237	1.21E-05	0.00E+00	2.37E-04	1.21E-05	0.00E+00	7.10E-05	2.18E-06	0.00E+00	2.69E-05	7.05E-07	0.00E+00
2294	458224.7	3769336	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.19E-05	2.21E-06	0.00E+00	2.72E-05	7.15E-07	0.00E+00
2295	458234.7	3769336	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.29E-05	2.24E-06	0.00E+00	2.76E-05	7.24E-07	0.00E+00
2296	458034.7	3769346	0.000185	9.48E-06	0.00E+00	1.85E-04	9.48E-06	0.00E+00	5.54E-05	1.70E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
2297	458044.7	3769346	0.000187	9.58E-06	0.00E+00	1.87E-04	9.58E-06	0.00E+00	5.60E-05	1.72E-06	0.00E+00	2.12E-05	5.56E-07	0.00E+00
2298	458054.7	3769346	0.000189	9.69E-06	0.00E+00	1.89E-04	9.69E-06	0.00E+00	5.66E-05	1.74E-06	0.00E+00	2.14E-05	5.62E-07	0.00E+00
2299	458064.7	3769346	0.000191	9.79E-06	0.00E+00	1.91E-04	9.79E-06	0.00E+00	5.72E-05	1.76E-06	0.00E+00	2.17E-05	5.68E-07	0.00E+00
2300	458074.7	3769346	0.000193	9.9E-06	0.00E+00	1.93E-04	9.90E-06	0.00E+00	5.78E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
2301	458084.7	3769346	0.000195	1E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.85E-05	1.80E-06	0.00E+00	2.22E-05	5.81E-07	0.00E+00
2302	458094.7	3769346	0.000198	1.01E-05	0.00E+00	1.98E-04	1.01E-05	0.00E+00	5.92E-05	1.82E-06	0.00E+00	2.24E-05	5.88E-07	0.00E+00
2303	458104.7	3769346	0.0002	1.03E-05	0.00E+00	2.00E-04	1.03E-05	0.00E+00	5.99E-05	1.84E-06	0.00E+00	2.27E-05	5.95E-07	0.00E+00
2304	458034.7	3769356	0.000181	9.28E-06	0.00E+00	1.81E-04	9.28E-06	0.00E+00	5.42E-05	1.67E-06	0.00E+00	2.05E-05	5.39E-07	0.00E+00
2305	458044.7	3769356	0.000183	9.38E-06	0.00E+00	1.83E-04	9.38E-06	0.00E+00	5.48E-05	1.69E-06	0.00E+00	2.08E-05	5.44E-07	0.00E+00
2306	458054.7	3769356	0.000185	9.48E-06	0.00E+00	1.85E-04	9.48E-06	0.00E+00	5.54E-05	1.70E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
2307	458064.7	3769356	0.000187	9.59E-06	0.00E+00	1.87E-04	9.59E-06	0.00E+00	5.60E-05	1.72E-06	0.00E+00	2.12E-05	5.57E-07	0.00E+00
2308	458074.7	3769356	0.000189	9.7E-06	0.00E+00	1.89E-04	9.70E-06	0.00E+00	5.67E-05	1.74E-06	0.00E+00	2.15E-05	5.63E-07	0.00E+00
2309	458084.7	3769356	0.000191	9.81E-06	0.00E+00	1.91E-04	9.81E-06	0.00E+00	5.73E-05	1.76E-06	0.00E+00	2.17E-05	5.69E-07	0.00E+00
2310	458094.7	3769356	0.000193	9.91E-06	0.00E+00	1.93E-04	9.91E-06	0.00E+00	5.79E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
2311	458104.7	3769356	0.000196	1E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.86E-05	1.80E-06	0.00E+00	2.22E-05	5.82E-07	0.00E+00
2312	458034.7	3769366	0.000177	9.1E-06	0.00E+00	1.77E-04	9.10E-06	0.00E+00	5.31E-05	1.64E-06	0.00E+00	2.01E-05	5.28E-07	0.00E+00
2313	458044.7	3769366	0.000179	9.18E-06	0.00E+00	1.79E-04	9.18E-06	0.00E+00	5.36E-05	1.65E-06	0.00E+00	2.03E-05	5.33E-07	0.00E+00
2314	458054.7	3769366	0.000181	9.28E-06	0.00E+00	1.81E-04	9.28E-06	0.00E+00	5.42E-05	1.67E-06	0.00E+00	2.05E-05	5.39E-07	0.00E+00
2315	458064.7	3769366	0.000183	9.39E-06	0.00E+00	1.83E-04	9.39E-06	0.00E+00	5.49E-05	1.69E-06	0.00E+00	2.08E-05	5.45E-07	0.00E+00
2316	458074.7	3769366	0.000185	9.51E-06	0.00E+00	1.85E-04	9.51E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
2317	458084.7	3769366	0.000187	9.61E-06	0.00E+00	1.87E-04	9.61E-06	0.00E+00	5.61E-05	1.73E-06	0.00E+00	2.13E-05	5.58E-07	0.00E+00
2318	458094.7	3769366	0.000189	9.71E-06	0.00E+00	1.89E-04	9.71E-06	0.00E+00	5.67E-05	1.75E-06	0.00E+00	2.15E-05	5.63E-07	0.00E+00
2319	458104.7	3769366	0.000191	9.8E-06	0.00E+00	1.91E-04	9.80E-06	0.00E+00	5.73E-05	1.76E-06	0.00E+00	2.17E-05	5.69E-07	0.00E+00
2320	458034.7	3769376	0.000174	8.93E-06	0.00E+00	1.74E-04	8.93E-06	0.00E+00	5.22E-05	1.61E-06	0.00E+00	1.98E-05	5.18E-07	0.00E+00
2321	458044.7	3769376	0.000176	9.01E-06	0.00E+00	1.76E-04	9.01E-06	0.00E+00	5.26E-05	1.62E-06	0.00E+00	1.99E-05	5.23E-07	0.00E+00
2322	458054.7	3769376	0.000178	9.1E-06	0.00E+00	1.78E-04	9.10E-06	0.00E+00	5.32E-05	1.64E-06	0.00E+00	2.01E-05	5.28E-07	0.00E+00
2323	458064.7	3769376	0.00018	9.21E-06	0.00E+00	1.80E-04	9.21E-06	0.00E+00	5.38E-05	1.66E-06	0.00E+00	2.04E-05	5.35E-07	0.00E+00
2324	458074.7	3769376	0.000182	9.32E-06	0.00E+00	1.82E-04	9.32E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.06E-05	5.41E-07	0.00E+00
2325	458084.7	3769376	0.000184	9.42E-06	0.00E+00	1.84E-04	9.42E-06	0.00E+00	5.51E-05	1.69E-06	0.00E+00	2.09E-05	5.47E-07	0.00E+00
2326	458094.7	3769376	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.52E-07	0.00E+00
2327	458104.7	3769376	0.000187	9.61E-06	0.00E+00	1.87E-04	9.61E-06	0.00E+00	5.61E-05	1.73E-06	0.00E+00	2.13E-05	5.58E-07	0.00E+00
2328	458034.7	3769386	0.000171	8.76E-06	0.00E+00	1.71E-04	8.76E-06	0.00E+00	5.12E-05	1.58E-06	0.00E+00	1.94E-05	5.09E-07	0.00E+00
2329	458044.7	3769386	0.000172	8.84E-06	0.00E+00	1.72E-04	8.84E-06	0.00E+00	5.17E-05	1.59E-06	0.00E+00	1.96E-05	5.13E-07	0.00E+00
2330	458054.7	3769386	0.000174	8.93E-06	0.00E+00	1.74E-04	8.93E-06	0.00E+00	5.22E-05	1.61E-06	0.00E+00	1.98E-05	5.19E-07	0.00E+00
2331	458064.7	3769386	0.000176	9.04E-06	0.00E+00	1.76E-04	9.04E-06	0.00E+00	5.28E-05	1.63E-06	0.00E+00	2.00E-05	5.25E-07	0.00E+00
2332	458074.7	3769386	0.000178	9.14E-06	0.00E+00	1.78E-04	9.14E-06	0.00E+00	5.34E-05	1.64E-06	0.00E+00	2.02E-05	5.31E-07	0.00E+00
2333	458084.7	3769386	0.00018	9.24E-06	0.00E+00	1.80E-04	9.24E-06	0.00E+00	5.40E-05	1.66E-06	0.00E+00	2.05E-05	5.36E-07	0.00E+00
2334	458094.7	3769386	0.000182	9.33E-06	0.00E+00	1.82E-04	9.33E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.07E-05	5.42E-07	0.00E+00
2335	458104.7	3769386	0.000184	9.42E-06	0.00E+00	1.84E-04	9.42E-06	0.00E+00	5.51E-05	1.69E-06	0.00E+00	2.09E-05	5.47E-07	0.00E+00
2336	458034.7	3769396	0.000168	8.6E-06	0.00E+00	1.68E-04	8.60E-06	0.00E+00	5.03E-05	1.55E-06	0.00E+00	1.90E-05	4.99E-07	0.00E+00
2337	458044.7	3769396	0.000169	8.68E-06	0.00E+00	1.69E-04	8.68E-06	0.00E+00	5.07E-05	1.56E-06	0.00E+00	1.92E-05	5.04E-07	0.00E+00
2338	458054.7	3769396	0.000171	8.77E-06	0.00E+00	1.71E-04	8.77E-06	0.00E+00	5.12E-05	1.58E-06	0.00E+00	1.94E-05	5.09E-07	0.00E+00
2339	458064.7	3769396	0.000173	8.87E-06	0.00E+00	1.73E-04	8.87E-06	0.00E+00	5.18E-05	1.59E-06	0.00E+00	1.96E-05	5.15E-07	0.00E+00
2340	458074.7	3769396	0.000175	8.97E-06	0.00E+00	1.75E-04	8.97E-06	0.00E+00	5.24E-05	1.61E-06	0.00E+00	1.99E-05	5.21E-07	0.00E+00
2341	458084.7	3769396	0.000177	9.07E-06	0.00E+00	1.77E-04	9.07E-06	0.00E+00	5.30E-05	1.63E-06	0.00E+00	2.01E-05	5.26E-07	0.00E+00
2342	458094.7	3769396	0.000179	9.15E-06	0.00E+00	1.79E-04	9.15E-06	0.00E+00	5.35E-05	1.65E-06	0.00E+00	2.03E-05	5.31E-07	0.00E+00
2343	458104.7	3769396	0.00018	9.24E-06	0.00E+00	1.80E-04	9.24E-06	0.00E+00	5.40E-05	1.66E-06	0.00E+00	2.05E-05	5.36E-07	0.00E+00
2344	458034.7	3769406	0.000165	8.44E-06	0.00E+00	1.65E-04	8.44E-06	0.00E+00	4.93E-05	1.52E-06	0.00E+00	1.87E-05	4.90E-07	0.00E+00
2345	458044.7	3769406	0.000166	8.52E-06	0.00E+00	1.66E-04	8.52E-06	0.00E+00	4.98E-05	1.53E-06	0.00E+00	1.89E-05	4.94E-07	0.00E+00
2346	458054.7	3769406	0.000168	8.61E-06	0.00E+00	1.68E-04	8.61E-06	0.00E+00	5.03E-05	1.55E-06	0.00E+00	1.90E-05	4.99E-07	0.00E+00
2347	458064.7	3769406	0.00017	8.7E-06	0.00E+00	1.70E-04	8.70E-06	0.00E+00	5.08E-05	1.56E-06	0.00E+00	1.92E-05	5.05E-07	0.00E+00
2348	458074.7	3769406	0.000171	8.79E-06	0.00E+00	1.71E-04	8.79E-06	0.00E+00	5.14E-05	1.58E-06	0.00E+00	1.95E-05	5.10E-07	0.00E+00
2349	458084.7	3769406	0.000173	8.88E-06	0.00E+00	1.73E-04	8.88E-06	0.00E+00	5.19E-05	1.60E-06	0.00E+00	1.97E-05	5.16E-07	0.00E+00
2350	458094.7	3769406	0.000175	8.97E-06	0.00E+00	1.75E-04	8.97E-06	0.00E+00	5.24E-05	1.61E-06	0.00E+00	1.99E-05	5.21E-07	0.00E+00
2351	458104.7	3769406	0.000177	9.06E-06	0.00E+00	1.77E-04	9.06E-06	0.00E+00	5.30E-05	1.63E-06	0.00E+00	2.01E-05	5.26E-07	0.00E+00
2352	458034.7	3769416	0.000162	8.28E-06	0.00E+00	1.62E-04	8.28E-06	0.00E+00	4.84E-05	1.49E-06	0.00E+00	1.83E-05	4.81E-07	0.00E+00
2353	458044.7	3769416	0.000163	8.36E-06	0.00E+00	1.63E-04	8.36E-06	0.00E+00	4.89E-05	1.50E-06	0.00E+00	1.85E-05	4.85E-07	0.00E+00
2354	458054.7	3769416	0.000165	8.45E-06	0.00E+00	1.65E-04	8.45E-06	0.00E+00	4.93E-05	1.52E-06	0.00E+00	1.87E-05	4.90E-07	0.00E+00
2355	458064.7	3769416	0.000166	8.53E-06	0.00E+00	1.66E-04	8.53E-06	0.00E+00	4.98E-05	1.53E-06	0.00E+00	1.89E-05	4.95E-07	0.00E+00
2356	458074.7	3769416	0.000168	8.61E-06	0.00E+00	1.68E-04	8.61E-06	0.00E+00	5.03E-05	1.55E-06	0.00E+00	1.91E-05	5.00E-07	0.00E+00
2357	458084.7	3769416	0.00017	8.7E-06	0.00E+00	1.70E-04	8.70E-06	0.00E+00	5.08E-05	1.56E-06	0.00E+00	1.93E-05	5.05E-07	0.00E+00
2358	458094.7	3769416	0.000172	8.79E-06	0.00E+00	1.72E-04	8.79E-06	0.00E+00	5.14E-05	1.58E-06	0.00E+00	1.95E-05	5.10E-07	0.00E+00
2359	458104.7	3769416	0.000173	8.89E-06	0.00E+00	1.73E-04	8.89E-06	0.00E+00	5.19E-05	1.60E-06	0.00E+00	1.97E-05	5.16E-07	0.00E+00
2360	458034.7	3769426	0.000159	8.13E-06	0.00E+00	1.59E-04	8.13E-06	0.00E+00	4.75E-05	1.46E-06	0.00E+00	1.80E-05	4.72E-07	0.00E+00
2361	458044.7	3769426	0.00016	8.21E-06	0.00E+00	1.60E-04	8.21E-06	0.00E+00	4.80E-05	1.48E-06	0.00E+00	1.82E-05	4.77E-07	0.00E+00
2362	458054.7	3769426	0.000162	8.29E-06	0.00E+00	1.62E-04	8.29E-06	0.00E+00	4.84E-05	1.49E-06	0.00E+00	1.84E-05	4.81E-07	0.00E+00
2363	458064.7	3769426	0.000163	8.37E-06	0.00E+00	1.63E-04	8.37E-06	0.00E+00	4.89E-05	1.50E-06	0.00E+00	1.85E-05	4.86E-07	0.00E+00

2364	458074.7	3769426	0.000165	8.44E-06	0.00E+00	1.65E-04	8.44E-06	0.00E+00	4.93E-05	1.52E-06	0.00E+00	1.87E-05	4.90E-07	0.00E+00
2365	458084.7	3769426	0.000166	8.53E-06	0.00E+00	1.66E-04	8.53E-06	0.00E+00	4.98E-05	1.53E-06	0.00E+00	1.89E-05	4.95E-07	0.00E+00
2366	458094.7	3769426	0.000168	8.62E-06	0.00E+00	1.68E-04	8.62E-06	0.00E+00	5.04E-05	1.55E-06	0.00E+00	1.91E-05	5.01E-07	0.00E+00
2367	458104.7	3769426	0.00017	8.72E-06	0.00E+00	1.70E-04	8.72E-06	0.00E+00	5.10E-05	1.57E-06	0.00E+00	1.93E-05	5.06E-07	0.00E+00
2368	458034.7	3769436	0.000156	7.99E-06	0.00E+00	1.56E-04	7.99E-06	0.00E+00	4.67E-05	1.44E-06	0.00E+00	1.77E-05	4.63E-07	0.00E+00
2369	458044.7	3769436	0.000157	8.07E-06	0.00E+00	1.57E-04	8.07E-06	0.00E+00	4.71E-05	1.45E-06	0.00E+00	1.79E-05	4.68E-07	0.00E+00
2370	458054.7	3769436	0.000159	8.15E-06	0.00E+00	1.59E-04	8.15E-06	0.00E+00	4.76E-05	1.46E-06	0.00E+00	1.80E-05	4.73E-07	0.00E+00
2371	458064.7	3769436	0.00016	8.22E-06	0.00E+00	1.60E-04	8.22E-06	0.00E+00	4.80E-05	1.48E-06	0.00E+00	1.82E-05	4.77E-07	0.00E+00
2372	458074.7	3769436	0.000162	8.29E-06	0.00E+00	1.62E-04	8.29E-06	0.00E+00	4.84E-05	1.49E-06	0.00E+00	1.83E-05	4.81E-07	0.00E+00
2373	458084.7	3769436	0.000163	8.37E-06	0.00E+00	1.63E-04	8.37E-06	0.00E+00	4.89E-05	1.51E-06	0.00E+00	1.85E-05	4.86E-07	0.00E+00
2374	458094.7	3769436	0.000165	8.47E-06	0.00E+00	1.65E-04	8.47E-06	0.00E+00	4.95E-05	1.52E-06	0.00E+00	1.87E-05	4.91E-07	0.00E+00
2375	458104.7	3769436	0.000167	8.56E-06	0.00E+00	1.67E-04	8.56E-06	0.00E+00	5.00E-05	1.54E-06	0.00E+00	1.89E-05	4.97E-07	0.00E+00
2376	458034.7	3769446	0.000153	7.85E-06	0.00E+00	1.53E-04	7.85E-06	0.00E+00	4.59E-05	1.41E-06	0.00E+00	1.74E-05	4.56E-07	0.00E+00
2377	458044.7	3769446	0.000155	7.93E-06	0.00E+00	1.55E-04	7.93E-06	0.00E+00	4.63E-05	1.43E-06	0.00E+00	1.75E-05	4.60E-07	0.00E+00
2378	458054.7	3769446	0.000156	8.01E-06	0.00E+00	1.56E-04	8.01E-06	0.00E+00	4.68E-05	1.44E-06	0.00E+00	1.77E-05	4.65E-07	0.00E+00
2379	458064.7	3769446	0.000157	8.07E-06	0.00E+00	1.57E-04	8.07E-06	0.00E+00	4.72E-05	1.45E-06	0.00E+00	1.79E-05	4.69E-07	0.00E+00
2380	458074.7	3769446	0.000159	8.14E-06	0.00E+00	1.59E-04	8.14E-06	0.00E+00	4.76E-05	1.46E-06	0.00E+00	1.80E-05	4.73E-07	0.00E+00
2381	458084.7	3769446	0.00016	8.22E-06	0.00E+00	1.60E-04	8.22E-06	0.00E+00	4.80E-05	1.48E-06	0.00E+00	1.82E-05	4.77E-07	0.00E+00
2382	458094.7	3769446	0.000162	8.31E-06	0.00E+00	1.62E-04	8.31E-06	0.00E+00	4.86E-05	1.50E-06	0.00E+00	1.84E-05	4.83E-07	0.00E+00
2383	458104.7	3769446	0.000164	8.41E-06	0.00E+00	1.64E-04	8.41E-06	0.00E+00	4.91E-05	1.51E-06	0.00E+00	1.86E-05	4.88E-07	0.00E+00
2384	458034.7	3769456	0.000151	7.72E-06	0.00E+00	1.51E-04	7.72E-06	0.00E+00	4.51E-05	1.39E-06	0.00E+00	1.71E-05	4.48E-07	0.00E+00
2385	458044.7	3769456	0.000152	7.8E-06	0.00E+00	1.52E-04	7.80E-06	0.00E+00	4.55E-05	1.40E-06	0.00E+00	1.73E-05	4.52E-07	0.00E+00
2386	458054.7	3769456	0.000153	7.87E-06	0.00E+00	1.53E-04	7.87E-06	0.00E+00	4.60E-05	1.41E-06	0.00E+00	1.74E-05	4.57E-07	0.00E+00
2387	458064.7	3769456	0.000155	7.93E-06	0.00E+00	1.55E-04	7.93E-06	0.00E+00	4.63E-05	1.43E-06	0.00E+00	1.76E-05	4.61E-07	0.00E+00
2388	458074.7	3769456	0.000156	8E-06	0.00E+00	1.56E-04	8.00E-06	0.00E+00	4.67E-05	1.44E-06	0.00E+00	1.77E-05	4.64E-07	0.00E+00
2389	458084.7	3769456	0.000158	8.08E-06	0.00E+00	1.58E-04	8.08E-06	0.00E+00	4.72E-05	1.45E-06	0.00E+00	1.79E-05	4.69E-07	0.00E+00
2390	458094.7	3769456	0.000159	8.17E-06	0.00E+00	1.59E-04	8.17E-06	0.00E+00	4.77E-05	1.47E-06	0.00E+00	1.81E-05	4.74E-07	0.00E+00
2391	458104.7	3769456	0.000161	8.26E-06	0.00E+00	1.61E-04	8.26E-06	0.00E+00	4.82E-05	1.48E-06	0.00E+00	1.83E-05	4.79E-07	0.00E+00
2392	458174.7	3769456	0.000175	8.96E-06	0.00E+00	1.75E-04	8.96E-06	0.00E+00	5.23E-05	1.61E-06	0.00E+00	1.98E-05	5.20E-07	0.00E+00
2393	458184.7	3769456	0.000177	9.09E-06	0.00E+00	1.77E-04	9.09E-06	0.00E+00	5.31E-05	1.63E-06	0.00E+00	2.01E-05	5.27E-07	0.00E+00
2394	458194.7	3769456	0.00018	9.22E-06	0.00E+00	1.80E-04	9.22E-06	0.00E+00	5.38E-05	1.66E-06	0.00E+00	2.04E-05	5.35E-07	0.00E+00
2395	458204.7	3769456	0.000182	9.33E-06	0.00E+00	1.82E-04	9.33E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.06E-05	5.41E-07	0.00E+00
2396	458214.7	3769456	0.000184	9.42E-06	0.00E+00	1.84E-04	9.42E-06	0.00E+00	5.50E-05	1.69E-06	0.00E+00	2.08E-05	5.47E-07	0.00E+00
2397	458224.7	3769456	0.000186	9.51E-06	0.00E+00	1.86E-04	9.51E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
2398	458234.7	3769456	0.000188	9.62E-06	0.00E+00	1.88E-04	9.62E-06	0.00E+00	5.62E-05	1.73E-06	0.00E+00	2.13E-05	5.58E-07	0.00E+00
2399	458034.7	3769466	0.000148	7.59E-06	0.00E+00	1.48E-04	7.59E-06	0.00E+00	4.43E-05	1.36E-06	0.00E+00	1.68E-05	4.40E-07	0.00E+00
2400	458044.7	3769466	0.000149	7.66E-06	0.00E+00	1.49E-04	7.66E-06	0.00E+00	4.48E-05	1.38E-06	0.00E+00	1.70E-05	4.45E-07	0.00E+00
2401	458054.7	3769466	0.000151	7.73E-06	0.00E+00	1.51E-04	7.73E-06	0.00E+00	4.52E-05	1.39E-06	0.00E+00	1.71E-05	4.49E-07	0.00E+00
2402	458064.7	3769466	0.000152	7.8E-06	0.00E+00	1.52E-04	7.80E-06	0.00E+00	4.56E-05	1.40E-06	0.00E+00	1.73E-05	4.53E-07	0.00E+00
2403	458074.7	3769466	0.000153	7.86E-06	0.00E+00	1.53E-04	7.86E-06	0.00E+00	4.59E-05	1.41E-06	0.00E+00	1.74E-05	4.56E-07	0.00E+00
2404	458084.7	3769466	0.000155	7.94E-06	0.00E+00	1.55E-04	7.94E-06	0.00E+00	4.64E-05	1.43E-06	0.00E+00	1.76E-05	4.61E-07	0.00E+00
2405	458094.7	3769466	0.000156	8.02E-06	0.00E+00	1.56E-04	8.02E-06	0.00E+00	4.68E-05	1.44E-06	0.00E+00	1.77E-05	4.65E-07	0.00E+00
2406	458104.7	3769466	0.000158	8.1E-06	0.00E+00	1.58E-04	8.10E-06	0.00E+00	4.73E-05	1.46E-06	0.00E+00	1.79E-05	4.70E-07	0.00E+00
2407	458174.7	3769466	0.000171	8.79E-06	0.00E+00	1.71E-04	8.79E-06	0.00E+00	5.13E-05	1.58E-06	0.00E+00	1.94E-05	5.10E-07	0.00E+00
2408	458184.7	3769466	0.000174	8.91E-06	0.00E+00	1.74E-04	8.91E-06	0.00E+00	5.20E-05	1.60E-06	0.00E+00	1.97E-05	5.17E-07	0.00E+00
2409	458194.7	3769466	0.000176	9.03E-06	0.00E+00	1.76E-04	9.03E-06	0.00E+00	5.27E-05	1.62E-06	0.00E+00	2.00E-05	5.24E-07	0.00E+00
2410	458204.7	3769466	0.000178	9.13E-06	0.00E+00	1.78E-04	9.13E-06	0.00E+00	5.34E-05	1.64E-06	0.00E+00	2.02E-05	5.30E-07	0.00E+00
2411	458214.7	3769466	0.00018	9.23E-06	0.00E+00	1.80E-04	9.23E-06	0.00E+00	5.39E-05	1.66E-06	0.00E+00	2.04E-05	5.36E-07	0.00E+00
2412	458224.7	3769466	0.000182	9.32E-06	0.00E+00	1.82E-04	9.32E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.06E-05	5.41E-07	0.00E+00
2413	458234.7	3769466	0.000184	9.43E-06	0.00E+00	1.84E-04	9.43E-06	0.00E+00	5.51E-05	1.70E-06	0.00E+00	2.09E-05	5.47E-07	0.00E+00
2414	458034.7	3769476	0.000146	7.46E-06	0.00E+00	1.46E-04	7.46E-06	0.00E+00	4.36E-05	1.34E-06	0.00E+00	1.65E-05	4.33E-07	0.00E+00
2415	458044.7	3769476	0.000147	7.54E-06	0.00E+00	1.47E-04	7.54E-06	0.00E+00	4.40E-05	1.36E-06	0.00E+00	1.67E-05	4.37E-07	0.00E+00
2416	458054.7	3769476	0.000148	7.6E-06	0.00E+00	1.48E-04	7.60E-06	0.00E+00	4.44E-05	1.37E-06	0.00E+00	1.68E-05	4.41E-07	0.00E+00
2417	458064.7	3769476	0.00015	7.67E-06	0.00E+00	1.50E-04	7.67E-06	0.00E+00	4.48E-05	1.38E-06	0.00E+00	1.70E-05	4.45E-07	0.00E+00
2418	458074.7	3769476	0.000151	7.73E-06	0.00E+00	1.51E-04	7.73E-06	0.00E+00	4.52E-05	1.39E-06	0.00E+00	1.71E-05	4.49E-07	0.00E+00
2419	458084.7	3769476	0.000152	7.8E-06	0.00E+00	1.52E-04	7.80E-06	0.00E+00	4.56E-05	1.40E-06	0.00E+00	1.73E-05	4.53E-07	0.00E+00
2420	458094.7	3769476	0.000153	7.87E-06	0.00E+00	1.53E-04	7.87E-06	0.00E+00	4.60E-05	1.41E-06	0.00E+00	1.74E-05	4.57E-07	0.00E+00
2421	458104.7	3769476	0.000155	7.94E-06	0.00E+00	1.55E-04	7.94E-06	0.00E+00	4.64E-05	1.43E-06	0.00E+00	1.76E-05	4.61E-07	0.00E+00
2422	458174.7	3769476	0.000168	8.62E-06	0.00E+00	1.68E-04	8.62E-06	0.00E+00	5.04E-05	1.55E-06	0.00E+00	1.91E-05	5.01E-07	0.00E+00
2423	458184.7	3769476	0.00017	8.73E-06	0.00E+00	1.70E-04	8.73E-06	0.00E+00	5.10E-05	1.57E-06	0.00E+00	1.93E-05	5.07E-07	0.00E+00
2424	458194.7	3769476	0.000172	8.84E-06	0.00E+00	1.72E-04	8.84E-06	0.00E+00	5.16E-05	1.59E-06	0.00E+00	1.96E-05	5.13E-07	0.00E+00
2425	458204.7	3769476	0.000174	8.94E-06	0.00E+00	1.74E-04	8.94E-06	0.00E+00	5.23E-05	1.61E-06	0.00E+00	1.98E-05	5.19E-07	0.00E+00
2426	458214.7	3769476	0.000176	9.04E-06	0.00E+00	1.76E-04	9.04E-06	0.00E+00	5.28E-05	1.63E-06	0.00E+00	2.00E-05	5.25E-07	0.00E+00
2427	458224.7	3769476	0.000178	9.14E-06	0.00E+00	1.78E-04	9.14E-06	0.00E+00	5.34E-05	1.64E-06	0.00E+00	2.02E-05	5.31E-07	0.00E+00
2428	458234.7	3769476	0.00018	9.25E-06	0.00E+00	1.80E-04	9.25E-06	0.00E+00	5.40E-05	1.66E-06	0.00E+00	2.05E-05	5.37E-07	0.00E+00
2429	458034.7	3769486	0.000143	7.34E-06	0.00E+00	1.43E-04	7.34E-06	0.00E+00	4.29E-05	1.32E-06	0.00E+00	1.62E-05	4.26E-07	0.00E+00
2430	458044.7	3769486	0.000145	7.41E-06	0.00E+00	1.45E-04	7.41E-06	0.00E+00	4.33E-05	1.33E-06	0.00E+00	1.64E-05	4.30E-07	0.00E+00
2431	458054.7	3769486	0.000146	7.48E-06	0.00E+00	1.46E-04	7.48E-06	0.00E+00	4.37E-05	1.34E-06	0.00E+00	1.65E-05	4.34E-07	0.00E+00
2432	458064.7	3769486	0.000147	7.54E-06	0.00E+00	1.47E-04	7.54E-06	0.00E+00	4.40E-05	1.36E-06	0.00E+00	1.67E-05	4.38E-07	0.00E+00
2433	458074.7	3769486	0.000148	7.6E-06	0.00E+00	1.48E-04	7.60E-06	0.00E+00	4.44E-05	1.37E-06	0.00E+00	1.68E-05	4.41E-07	0.00E+00
2434	458084.7	3769486	0.000149	7.66E-06	0.00E+00	1.49E-04	7.66E-06	0.00E+00	4.48E-05	1.38E-06	0.00E+00	1.70E-05	4.45E-07	0.00E+00
2435	458094.7	3769486	0.000151	7.73E-06	0.00E+00	1.51E-04	7.73E-06	0.00E+00	4.51E-05	1.39E-06	0.00E+00	1.71E-05	4.48E-07	0.00E+00
2436	458104.7	3769486	0.000152	7.79E-06	0.00E+00	1.52E-04	7.79E-06	0.00E+00	4.55E-05	1.40E-06	0.00E+00	1.72E-05	4.52E-07	0.00E+00
2437	458174.7	3769486	0.000165	8.46E-06	0.00E+00	1.65E-04	8.46E-06	0.00E+00	4.94E-05	1.52E-06	0.00E+00	1.87E-05	4.91E-07	0.00E+00
2438	458184.7	3769486	0.000167	8.56E-06	0.00E+00	1.67E-04	8.56E-06	0.00E+00	5.00E-05	1.54E-06	0.00E+00	1.89E-05	4.97E-07	0.00E+00
2439	458194.7	3769486	0.000169	8.66E-06	0.00E+00	1.69E-04	8.66E-06	0.00E+00	5.06E-05	1.56E-06	0.00E+00	1.92E-05	5.03E-07	0.00E+00
2440	458204.7	3769486	0.000171	8.76E-06	0.00E+00	1.71E-04	8.76E-06	0.00E+00	5.12E-05	1.58E-06	0.00E+00	1.94E-05	5.09E-07	0.00E+00
2441	458214.7	3769486	0.000173	8.86E-06	0.00E+00	1.73E-04	8.86E-06	0.00E+00	5.18E-05	1.59E-06	0.00E+00	1.96E-05	5.15E-07	0.00E+00
2442	458224.7	3769486	0.000175	8.97E-06	0.00E+00	1.75E-04	8.97E-06	0.00E+00	5.24E-05	1.61E-06	0.00E+00	1.98E-05	5.21E-07	0.00E+00
2443	458234.7	3769486	0.000177	9.07E-06	0.00E+00	1.77E-04	9.07E-06	0.00E+00	5.30E-05	1.63E-06	0.00E+00	2.01E-05	5.27E-07	0.00E+00
2444	458034.7	3769496	0.000141	7.22E-06	0.00E+00	1.41E-04	7.22E-06	0.00E+00	4.22E-05	1.30E-06	0.00E+00	1.60E-05	4.19E-07	0.00E+00
2445	458044.7	3769496	0.000142	7.29E-06	0.00E+00	1.42E-04	7.29E-06	0.00E+00	4.26E-05	1.31E-06	0.00E+00	1.61E-05	4.23E-07	0.00E+00
2446	458054.7	3769496	0.000143	7.36E-06	0.00E+00	1.43E-04	7.36E-06	0.00E+00	4.30E-05	1.32E-06	0.00E+00	1.63E-05	4.27E-07	0.00E+00
2447	458064.7	3769496	0.000145	7.41E-06	0.00E+00	1.45E-04	7.41E-06	0.00E+00	4.33E-05	1.33E-06	0.00E+00	1.64E-05	4.30E-07	0.00E+00
2448	458074.7	3769496	0.000146	7.47E-06	0.00E+00	1.46E-04	7.47E-06	0.00E+00	4.37E-05	1.34E-06	0.00E+00	1.65E-05	4.34E-07	0.00E+00
2449	458084.7	3769496	0.000147	7.53E-06	0.00E+00	1.47E-04	7.53E-06	0.00E+00	4.40E-05	1.35E-06	0.00E+00	1.67E-05	4.37E-07	0.00E+00
2450	458094.7	3769496	0.000148	7.59E-06	0.00E+00	1.48E-04	7.59E-06	0.00E+00	4.43E-05	1.36E-06	0.00E+00	1.68E-05	4.40E-07	0.00E+00
2451	458104.7	3769496	0.000149	7.65E-06	0.00E+00	1.49E-04	7.65E-06	0.00E+00	4.47E-05	1.37E-06	0.00E+00	1.69E-05	4.44E-07	0.00E+00
2452	458174.7	3769496	0.000162	8.31E-06	0.00E+00	1.62E-04	8.31E-06	0.00E+00	4.86E-05	1.49E-06	0.00E+00	1.84E-05	4.82E-07	0.00E+00
2453	458184.7	3769496	0.000164	8.41E-06	0.00E+00	1.64E-04	8.41E-06	0.00E+00	4.91E-05	1.51E-06	0.00E+00	1.86E-05	4.88E-07	0.00E+00
2454	458194.7	3769496	0.000166	8.5E-06	0.00E+00	1.66E-04	8.50E-06	0.00E+00	4.97E-05	1.53E-06	0.00E+00	1.88E-05	4.94E-07	0.00E+00

2455	458204.7	3769496	0.000168	8.6E-06	0.00E+00		1.68E-04	8.60E-06	0.00E+00		5.02E-05	1.55E-06	0.00E+00		1.90E-05	4.99E-07	0.00E+00
2456	458214.7	3769496	0.00017	8.7E-06	0.00E+00		1.70E-04	8.70E-06	0.00E+00		5.08E-05	1.56E-06	0.00E+00		1.93E-05	5.05E-07	0.00E+00
2457	458224.7	3769496	0.000172	8.8E-06	0.00E+00		1.72E-04	8.80E-06	0.00E+00		5.14E-05	1.58E-06	0.00E+00		1.95E-05	5.11E-07	0.00E+00
2458	458234.7	3769496	0.000174	8.9E-06	0.00E+00		1.74E-04	8.90E-06	0.00E+00		5.20E-05	1.60E-06	0.00E+00		1.97E-05	5.17E-07	0.00E+00
2459	458034.7	3769506	0.000139	7.11E-06	0.00E+00		1.39E-04	7.11E-06	0.00E+00		4.15E-05	1.28E-06	0.00E+00		1.57E-05	4.13E-07	0.00E+00
2460	458044.7	3769506	0.00014	7.17E-06	0.00E+00		1.40E-04	7.17E-06	0.00E+00		4.19E-05	1.29E-06	0.00E+00		1.59E-05	4.16E-07	0.00E+00
2461	458054.7	3769506	0.000141	7.24E-06	0.00E+00		1.41E-04	7.24E-06	0.00E+00		4.23E-05	1.30E-06	0.00E+00		1.60E-05	4.20E-07	0.00E+00
2462	458064.7	3769506	0.000142	7.29E-06	0.00E+00		1.42E-04	7.29E-06	0.00E+00		4.26E-05	1.31E-06	0.00E+00		1.61E-05	4.23E-07	0.00E+00
2463	458074.7	3769506	0.000143	7.35E-06	0.00E+00		1.43E-04	7.35E-06	0.00E+00		4.29E-05	1.32E-06	0.00E+00		1.63E-05	4.27E-07	0.00E+00
2464	458084.7	3769506	0.000144	7.4E-06	0.00E+00		1.44E-04	7.40E-06	0.00E+00		4.33E-05	1.33E-06	0.00E+00		1.64E-05	4.30E-07	0.00E+00
2465	458094.7	3769506	0.000145	7.45E-06	0.00E+00		1.45E-04	7.45E-06	0.00E+00		4.35E-05	1.34E-06	0.00E+00		1.65E-05	4.33E-07	0.00E+00
2466	458204.7	3769506	0.000165	8.44E-06	0.00E+00		1.65E-04	8.44E-06	0.00E+00		4.93E-05	1.52E-06	0.00E+00		1.87E-05	4.90E-07	0.00E+00
2467	458214.7	3769506	0.000167	8.54E-06	0.00E+00		1.67E-04	8.54E-06	0.00E+00		4.99E-05	1.54E-06	0.00E+00		1.89E-05	4.96E-07	0.00E+00
2468	458224.7	3769506	0.000169	8.64E-06	0.00E+00		1.69E-04	8.64E-06	0.00E+00		5.05E-05	1.55E-06	0.00E+00		1.91E-05	5.02E-07	0.00E+00
2469	458234.7	3769506	0.00017	8.73E-06	0.00E+00		1.70E-04	8.73E-06	0.00E+00		5.10E-05	1.57E-06	0.00E+00		1.93E-05	5.07E-07	0.00E+00
2470	458034.7	3769516	0.000136	6.99E-06	0.00E+00		1.36E-04	6.99E-06	0.00E+00		4.09E-05	1.26E-06	0.00E+00		1.55E-05	4.06E-07	0.00E+00
2471	458044.7	3769516	0.000138	7.06E-06	0.00E+00		1.38E-04	7.06E-06	0.00E+00		4.12E-05	1.27E-06	0.00E+00		1.56E-05	4.10E-07	0.00E+00
2472	458054.7	3769516	0.000139	7.12E-06	0.00E+00		1.39E-04	7.12E-06	0.00E+00		4.16E-05	1.28E-06	0.00E+00		1.58E-05	4.13E-07	0.00E+00
2473	458064.7	3769516	0.00014	7.18E-06	0.00E+00		1.40E-04	7.18E-06	0.00E+00		4.19E-05	1.29E-06	0.00E+00		1.59E-05	4.16E-07	0.00E+00
2474	458074.7	3769516	0.000141	7.23E-06	0.00E+00		1.41E-04	7.23E-06	0.00E+00		4.22E-05	1.30E-06	0.00E+00		1.60E-05	4.20E-07	0.00E+00
2475	458084.7	3769516	0.000142	7.28E-06	0.00E+00		1.42E-04	7.28E-06	0.00E+00		4.25E-05	1.31E-06	0.00E+00		1.61E-05	4.23E-07	0.00E+00
2476	458094.7	3769516	0.000143	7.32E-06	0.00E+00		1.43E-04	7.32E-06	0.00E+00		4.28E-05	1.32E-06	0.00E+00		1.62E-05	4.25E-07	0.00E+00
2477	458214.7	3769516	0.000164	8.39E-06	0.00E+00		1.64E-04	8.39E-06	0.00E+00		4.90E-05	1.51E-06	0.00E+00		1.86E-05	4.87E-07	0.00E+00
2478	458224.7	3769516	0.000165	8.48E-06	0.00E+00		1.65E-04	8.48E-06	0.00E+00		4.96E-05	1.53E-06	0.00E+00		1.88E-05	4.92E-07	0.00E+00
2479	458234.7	3769516	0.000167	8.57E-06	0.00E+00		1.67E-04	8.57E-06	0.00E+00		5.01E-05	1.54E-06	0.00E+00		1.90E-05	4.98E-07	0.00E+00
2480	458034.7	3769526	0.000134	6.87E-06	0.00E+00		1.34E-04	6.87E-06	0.00E+00		4.02E-05	1.24E-06	0.00E+00		1.52E-05	3.99E-07	0.00E+00
2481	458044.7	3769526	0.000135	6.94E-06	0.00E+00		1.35E-04	6.94E-06	0.00E+00		4.05E-05	1.25E-06	0.00E+00		1.54E-05	4.03E-07	0.00E+00
2482	458054.7	3769526	0.000136	7E-06	0.00E+00		1.36E-04	7.00E-06	0.00E+00		4.09E-05	1.26E-06	0.00E+00		1.55E-05	4.06E-07	0.00E+00
2483	458064.7	3769526	0.000138	7.05E-06	0.00E+00		1.38E-04	7.05E-06	0.00E+00		4.12E-05	1.27E-06	0.00E+00		1.56E-05	4.09E-07	0.00E+00
2484	458074.7	3769526	0.000139	7.11E-06	0.00E+00		1.39E-04	7.11E-06	0.00E+00		4.16E-05	1.28E-06	0.00E+00		1.57E-05	4.13E-07	0.00E+00
2485	458084.7	3769526	0.00014	7.16E-06	0.00E+00		1.40E-04	7.16E-06	0.00E+00		4.18E-05	1.29E-06	0.00E+00		1.58E-05	4.16E-07	0.00E+00
2486	458094.7	3769526	0.00014	7.2E-06	0.00E+00		1.40E-04	7.20E-06	0.00E+00		4.20E-05	1.29E-06	0.00E+00		1.59E-05	4.18E-07	0.00E+00
2487	458214.7	3769526	0.00016	8.21E-06	0.00E+00		1.60E-04	8.21E-06	0.00E+00		4.80E-05	1.48E-06	0.00E+00		1.82E-05	4.77E-07	0.00E+00
2488	458224.7	3769526	0.000162	8.3E-06	0.00E+00		1.62E-04	8.30E-06	0.00E+00		4.85E-05	1.49E-06	0.00E+00		1.84E-05	4.82E-07	0.00E+00
2489	458234.7	3769526	0.000164	8.38E-06	0.00E+00		1.64E-04	8.38E-06	0.00E+00		4.90E-05	1.51E-06	0.00E+00		1.86E-05	4.87E-07	0.00E+00
2490	458034.7	3769536	0.000132	6.75E-06	0.00E+00		1.32E-04	6.75E-06	0.00E+00		3.95E-05	1.21E-06	0.00E+00		1.49E-05	3.92E-07	0.00E+00
2491	458044.7	3769536	0.000133	6.82E-06	0.00E+00		1.33E-04	6.82E-06	0.00E+00		3.98E-05	1.23E-06	0.00E+00		1.51E-05	3.96E-07	0.00E+00
2492	458054.7	3769536	0.000134	6.88E-06	0.00E+00		1.34E-04	6.88E-06	0.00E+00		4.02E-05	1.24E-06	0.00E+00		1.52E-05	3.99E-07	0.00E+00
2493	458064.7	3769536	0.000135	6.94E-06	0.00E+00		1.35E-04	6.94E-06	0.00E+00		4.05E-05	1.25E-06	0.00E+00		1.53E-05	4.03E-07	0.00E+00
2494	458074.7	3769536	0.000136	7E-06	0.00E+00		1.36E-04	7.00E-06	0.00E+00		4.09E-05	1.26E-06	0.00E+00		1.55E-05	4.06E-07	0.00E+00
2495	458084.7	3769536	0.000137	7.04E-06	0.00E+00		1.37E-04	7.04E-06	0.00E+00		4.12E-05	1.27E-06	0.00E+00		1.56E-05	4.09E-07	0.00E+00
2496	458094.7	3769536	0.000138	7.07E-06	0.00E+00		1.38E-04	7.07E-06	0.00E+00		4.13E-05	1.27E-06	0.00E+00		1.57E-05	4.11E-07	0.00E+00
2497	458234.7	3769536	0.00016	8.2E-06	0.00E+00		1.60E-04	8.20E-06	0.00E+00		4.79E-05	1.47E-06	0.00E+00		1.82E-05	4.76E-07	0.00E+00
2498	458034.7	3769546	0.000129	6.64E-06	0.00E+00		1.29E-04	6.64E-06	0.00E+00		3.88E-05	1.19E-06	0.00E+00		1.47E-05	3.85E-07	0.00E+00
2499	458044.7	3769546	0.000131	6.7E-06	0.00E+00		1.31E-04	6.70E-06	0.00E+00		3.91E-05	1.20E-06	0.00E+00		1.48E-05	3.89E-07	0.00E+00
2500	458054.7	3769546	0.000132	6.76E-06	0.00E+00		1.32E-04	6.76E-06	0.00E+00		3.95E-05	1.22E-06	0.00E+00		1.50E-05	3.92E-07	0.00E+00
2501	458064.7	3769546	0.000133	6.82E-06	0.00E+00		1.33E-04	6.82E-06	0.00E+00		3.99E-05	1.23E-06	0.00E+00		1.51E-05	3.96E-07	0.00E+00
2502	458074.7	3769546	0.000134	6.88E-06	0.00E+00		1.34E-04	6.88E-06	0.00E+00		4.02E-05	1.24E-06	0.00E+00		1.52E-05	4.00E-07	0.00E+00
2503	458084.7	3769546	0.000135	6.93E-06	0.00E+00		1.35E-04	6.93E-06	0.00E+00		4.05E-05	1.25E-06	0.00E+00		1.53E-05	4.02E-07	0.00E+00
2504	458094.7	3769546	0.000136	6.95E-06	0.00E+00		1.36E-04	6.95E-06	0.00E+00		4.06E-05	1.25E-06	0.00E+00		1.54E-05	4.04E-07	0.00E+00
2505	458234.7	3769546	0.000157	8.03E-06	0.00E+00		1.57E-04	8.03E-06	0.00E+00		4.69E-05	1.44E-06	0.00E+00		1.78E-05	4.66E-07	0.00E+00
2506	458034.7	3769556	0.000127	6.53E-06	0.00E+00		1.27E-04	6.53E-06	0.00E+00		3.81E-05	1.17E-06	0.00E+00		1.44E-05	3.79E-07	0.00E+00
2507	458044.7	3769556	0.000128	6.57E-06	0.00E+00		1.28E-04	6.57E-06	0.00E+00		3.84E-05	1.18E-06	0.00E+00		1.46E-05	3.82E-07	0.00E+00
2508	458054.7	3769556	0.000129	6.63E-06	0.00E+00		1.29E-04	6.63E-06	0.00E+00		3.87E-05	1.19E-06	0.00E+00		1.47E-05	3.85E-07	0.00E+00
2509	458064.7	3769556	0.00013	6.68E-06	0.00E+00		1.30E-04	6.68E-06	0.00E+00		3.91E-05	1.20E-06	0.00E+00		1.48E-05	3.88E-07	0.00E+00
2510	458074.7	3769556	0.000132	6.74E-06	0.00E+00		1.32E-04	6.74E-06	0.00E+00		3.94E-05	1.21E-06	0.00E+00		1.49E-05	3.91E-07	0.00E+00
2511	458084.7	3769556	0.000132	6.79E-06	0.00E+00		1.32E-04	6.79E-06	0.00E+00		3.96E-05	1.22E-06	0.00E+00		1.50E-05	3.94E-07	0.00E+00
2512	458094.7	3769556	0.000133	6.82E-06	0.00E+00		1.33E-04	6.82E-06	0.00E+00		3.98E-05	1.23E-06	0.00E+00		1.51E-05	3.96E-07	0.00E+00
2513	458234.7	3769556	0.000153	7.85E-06	0.00E+00		1.53E-04	7.85E-06	0.00E+00		4.59E-05	1.41E-06	0.00E+00		1.74E-05	4.56E-07	0.00E+00
2514	458034.7	3769566	0.000125	6.42E-06	0.00E+00		1.25E-04	6.42E-06	0.00E+00		3.75E-05	1.15E-06	0.00E+00		1.42E-05	3.72E-07	0.00E+00
2515	458044.7	3769566	0.000126	6.46E-06	0.00E+00		1.26E-04	6.46E-06	0.00E+00		3.77E-05	1.16E-06	0.00E+00		1.43E-05	3.75E-07	0.00E+00
2516	458054.7	3769566	0.000127	6.5E-06	0.00E+00		1.27E-04	6.50E-06	0.00E+00		3.80E-05	1.17E-06	0.00E+00		1.44E-05	3.77E-07	0.00E+00
2517	458064.7	3769566	0.000128	6.55E-06	0.00E+00		1.28E-04	6.55E-06	0.00E+00		3.83E-05	1.18E-06	0.00E+00		1.45E-05	3.80E-07	0.00E+00
2518	458074.7	3769566	0.000129	6.6E-06	0.00E+00		1.29E-04	6.60E-06	0.00E+00		3.86E-05	1.19E-06	0.00E+00		1.46E-05	3.83E-07	0.00E+00
2519	458084.7	3769566	0.00013	6.65E-06	0.00E+00		1.30E-04	6.65E-06	0.00E+00		3.88E-05	1.19E-06	0.00E+00		1.47E-05	3.86E-07	0.00E+00
2520	458094.7	3769566	0.00013	6.68E-06	0.00E+00		1.30E-04	6.68E-06	0.00E+00		3.91E-05	1.20E-06	0.00E+00		1.48E-05	3.88E-07	0.00E+00
2521	458234.7	3769566	0.00015	7.68E-06	0.00E+00		1.50E-04	7.68E-06	0.00E+00		4.49E-05	1.38E-06	0.00E+00		1.70E-05	4.46E-07	0.00E+00
2522	458034.7	3769576	0.000123	6.31E-06	0.00E+00		1.23E-04	6.31E-06	0.00E+00		3.69E-05	1.13E-06	0.00E+00		1.40E-05	3.66E-07	0.00E+00
2523	458044.7	3769576	0.000124	6.34E-06	0.00E+00		1.24E-04	6.34E-06	0.00E+00		3.70E-05	1.14E-06	0.00E+00		1.40E-05	3.68E-07	0.00E+00
2524	458054.7	3769576	0.000124	6.38E-06	0.00E+00		1.24E-04	6.38E-06	0.00E+00		3.72E-05	1.15E-06	0.00E+00		1.41E-05	3.70E-07	0.00E+00
2525	458064.7	3769576	0.000125	6.42E-06	0.00E+00		1.25E-04	6.42E-06	0.00E+00		3.75E-05	1.15E-06	0.00E+00		1.42E-05	3.73E-07	0.00E+00
2526	458074.7	3769576	0.000126	6.46E-06	0.00E+00		1.26E-04	6.46E-06	0.00E+00		3.78E-05	1.16E-06	0.00E+00		1.43E-05	3.75E-07	0.00E+00
2527	458084.7	3769576	0.000127	6.51E-06	0.00E+00		1.27E-04	6.51E-06	0.00E+00		3.80E-05	1.17E-06	0.00E+00		1.44E-05	3.78E-07	0.00E+00
2528	458094.7	3769576	0.000128	6.55E-06	0.00E+00		1.28E-04	6.55E-06	0.00E+00		3.83E-05	1.18E-06	0.00E+00		1.45E-05	3.80E-07	0.00E+00
2529	458234.7	3769576	0.000147	7.51E-06	0.00E+00		1.47E-04	7.51E-06	0.00E+00		4.39E-05	1.35E-06	0.00E+00		1.66E-05	4.36E-07	0.00E+00
2530	458234.7	3769586	0.000144	7.36E-06	0.00E+00		1.44E-04	7.36E-06	0.00E+00		4.30E-05	1.32E-06	0.00E+00		1.63E-05	4.27E-07	0.00E+00

			UnMitigated	T2	T2L3	T4
			1.32E-02	1.32E-02	3.95E-03	1.50E-03
			Yr 1	Yr 1	Yr 1	Yr 1
1	457789.6	3768636	6.34E-03	6.34E-03	1.90E-03	7.20E-04
2	457781	3768639	6.09E-03	6.09E-03	1.82E-03	6.91E-04
3	457772.3	3768643	5.86E-03	5.86E-03	1.75E-03	6.64E-04
4	457763.6	3768647	5.64E-03	5.64E-03	1.69E-03	6.40E-04
5	457754.9	3768650	5.43E-03	5.43E-03	1.63E-03	6.16E-04
6	457746.2	3768654	5.22E-03	5.22E-03	1.56E-03	5.92E-04
7	457737.5	3768657	5.01E-03	5.01E-03	1.50E-03	5.68E-04
8	457728.8	3768661	4.82E-03	4.82E-03	1.44E-03	5.46E-04
9	457886.5	3768635	7.73E-03	7.73E-03	2.32E-03	8.77E-04
10	457877.8	3768639	7.48E-03	7.48E-03	2.24E-03	8.49E-04
11	457869	3768643	7.23E-03	7.23E-03	2.17E-03	8.21E-04
12	457860.3	3768646	6.99E-03	6.99E-03	2.09E-03	7.93E-04
13	457851.5	3768650	6.74E-03	6.74E-03	2.02E-03	7.65E-04
14	457842.8	3768653	6.50E-03	6.50E-03	1.95E-03	7.38E-04
15	457834	3768657	6.27E-03	6.27E-03	1.88E-03	7.12E-04
16	457825.3	3768661	6.04E-03	6.04E-03	1.81E-03	6.86E-04
17	457816.5	3768664	5.82E-03	5.82E-03	1.74E-03	6.60E-04
18	457807.8	3768668	5.60E-03	5.60E-03	1.68E-03	6.36E-04
19	457799	3768672	5.39E-03	5.39E-03	1.61E-03	6.12E-04
20	457790.3	3768675	5.19E-03	5.19E-03	1.55E-03	5.88E-04
21	457781.5	3768679	4.99E-03	4.99E-03	1.49E-03	5.66E-04
22	457772.8	3768683	4.80E-03	4.80E-03	1.44E-03	5.44E-04
23	457764	3768686	4.61E-03	4.61E-03	1.38E-03	5.23E-04
24	457755.3	3768690	4.44E-03	4.44E-03	1.33E-03	5.03E-04
25	457746.5	3768694	4.27E-03	4.27E-03	1.28E-03	4.85E-04
26	457737.8	3768697	4.12E-03	4.12E-03	1.24E-03	4.68E-04
27	457729	3768701	3.98E-03	3.98E-03	1.19E-03	4.52E-04
28	457984.5	3768634	8.76E-03	8.76E-03	2.62E-03	9.94E-04
29	457975.6	3768638	8.55E-03	8.55E-03	2.56E-03	9.70E-04
30	457966.8	3768642	8.34E-03	8.34E-03	2.50E-03	9.46E-04
31	457958	3768645	8.13E-03	8.13E-03	2.43E-03	9.22E-04
32	457949.2	3768649	7.91E-03	7.91E-03	2.37E-03	8.97E-04
33	457940.4	3768653	7.69E-03	7.69E-03	2.30E-03	8.72E-04
34	457931.6	3768656	7.47E-03	7.47E-03	2.24E-03	8.47E-04
35	457922.8	3768660	7.25E-03	7.25E-03	2.17E-03	8.23E-04
36	457914	3768664	7.03E-03	7.03E-03	2.11E-03	7.98E-04
37	457905.2	3768667	6.81E-03	6.81E-03	2.04E-03	7.73E-04
38	457896.4	3768671	6.59E-03	6.59E-03	1.97E-03	7.48E-04
39	457887.6	3768675	6.37E-03	6.37E-03	1.91E-03	7.22E-04
40	457878.8	3768678	6.15E-03	6.15E-03	1.84E-03	6.98E-04
41	457870	3768682	5.94E-03	5.94E-03	1.78E-03	6.74E-04
42	457861.2	3768686	5.74E-03	5.74E-03	1.72E-03	6.52E-04
43	457852.4	3768689	5.55E-03	5.55E-03	1.66E-03	6.29E-04
44	457843.6	3768693	5.35E-03	5.35E-03	1.60E-03	6.07E-04

45	457834.8	3768697	5.16E-03	5.16E-03	1.55E-03	5.86E-04
46	457826	3768700	4.98E-03	4.98E-03	1.49E-03	5.65E-04
47	457817.2	3768704	4.81E-03	4.81E-03	1.44E-03	5.46E-04
48	457808.4	3768708	4.64E-03	4.64E-03	1.39E-03	5.27E-04
49	457799.6	3768712	4.47E-03	4.47E-03	1.34E-03	5.07E-04
50	457790.8	3768715	4.30E-03	4.30E-03	1.29E-03	4.88E-04
51	457782	3768719	4.15E-03	4.15E-03	1.24E-03	4.71E-04
52	457773.2	3768723	4.00E-03	4.00E-03	1.20E-03	4.54E-04
53	457764.4	3768726	3.85E-03	3.85E-03	1.15E-03	4.37E-04
54	457755.6	3768730	3.71E-03	3.71E-03	1.11E-03	4.21E-04
55	457746.8	3768734	3.57E-03	3.57E-03	1.07E-03	4.06E-04
56	457738	3768737	3.45E-03	3.45E-03	1.03E-03	3.91E-04
57	457729.2	3768741	3.32E-03	3.32E-03	9.95E-04	3.77E-04
58	458172.7	3768448	1.32E-02	1.32E-02	3.95E-03	1.50E-03
59	458169.2	3768457	1.32E-02	1.32E-02	3.94E-03	1.49E-03
60	458165.6	3768466	1.31E-02	1.31E-02	3.92E-03	1.48E-03
61	458162	3768474	1.30E-02	1.30E-02	3.89E-03	1.47E-03
62	458158.4	3768483	1.29E-02	1.29E-02	3.86E-03	1.46E-03
63	458154.8	3768492	1.28E-02	1.28E-02	3.83E-03	1.45E-03
64	458151.2	3768501	1.26E-02	1.26E-02	3.78E-03	1.43E-03
65	458147.6	3768510	1.25E-02	1.25E-02	3.74E-03	1.42E-03
66	458144	3768519	1.23E-02	1.23E-02	3.69E-03	1.40E-03
67	458140.4	3768528	1.21E-02	1.21E-02	3.63E-03	1.38E-03
68	458136.8	3768537	1.19E-02	1.19E-02	3.57E-03	1.35E-03
69	458074.4	3768637	9.09E-03	9.09E-03	2.72E-03	1.03E-03
70	458065.5	3768640	8.95E-03	8.95E-03	2.68E-03	1.02E-03
71	458056.7	3768644	8.81E-03	8.81E-03	2.64E-03	1.00E-03
72	458047.8	3768648	8.66E-03	8.66E-03	2.59E-03	9.83E-04
73	458039	3768651	8.50E-03	8.50E-03	2.55E-03	9.64E-04
74	458030.1	3768655	8.33E-03	8.33E-03	2.49E-03	9.45E-04
75	458021.3	3768659	8.15E-03	8.15E-03	2.44E-03	9.25E-04
76	458012.5	3768663	7.97E-03	7.97E-03	2.39E-03	9.05E-04
77	458003.6	3768666	7.80E-03	7.80E-03	2.33E-03	8.84E-04
78	457994.8	3768670	7.62E-03	7.62E-03	2.28E-03	8.64E-04
79	457985.9	3768674	7.43E-03	7.43E-03	2.23E-03	8.43E-04
80	457977.1	3768677	7.24E-03	7.24E-03	2.17E-03	8.21E-04
81	457968.2	3768681	7.04E-03	7.04E-03	2.11E-03	7.99E-04
82	457959.4	3768685	6.84E-03	6.84E-03	2.05E-03	7.76E-04
83	457950.5	3768688	6.64E-03	6.64E-03	1.99E-03	7.54E-04
84	457941.7	3768692	6.45E-03	6.45E-03	1.93E-03	7.32E-04
85	457932.8	3768696	6.26E-03	6.26E-03	1.88E-03	7.10E-04
86	457924	3768700	6.07E-03	6.07E-03	1.82E-03	6.89E-04
87	457915.1	3768703	5.88E-03	5.88E-03	1.76E-03	6.67E-04
88	457906.3	3768707	5.69E-03	5.69E-03	1.70E-03	6.45E-04
89	457897.4	3768711	5.50E-03	5.50E-03	1.65E-03	6.24E-04
90	457888.6	3768714	5.32E-03	5.32E-03	1.59E-03	6.03E-04
91	457879.7	3768718	5.14E-03	5.14E-03	1.54E-03	5.83E-04

92	457870.9	3768722	4.96E-03	4.96E-03	1.49E-03	5.63E-04
93	457862.1	3768725	4.79E-03	4.79E-03	1.43E-03	5.43E-04
94	457853.2	3768729	4.62E-03	4.62E-03	1.38E-03	5.24E-04
95	457844.4	3768733	4.46E-03	4.46E-03	1.33E-03	5.05E-04
96	457835.5	3768737	4.30E-03	4.30E-03	1.29E-03	4.87E-04
97	457826.7	3768740	4.14E-03	4.14E-03	1.24E-03	4.70E-04
98	457817.8	3768744	4.00E-03	4.00E-03	1.20E-03	4.53E-04
99	457809	3768748	3.85E-03	3.85E-03	1.15E-03	4.37E-04
100	457800.1	3768751	3.72E-03	3.72E-03	1.11E-03	4.22E-04
101	457791.3	3768755	3.59E-03	3.59E-03	1.08E-03	4.08E-04
102	457782.4	3768759	3.46E-03	3.46E-03	1.04E-03	3.93E-04
103	457773.6	3768762	3.35E-03	3.35E-03	1.00E-03	3.80E-04
104	457764.7	3768766	3.24E-03	3.24E-03	9.69E-04	3.67E-04
105	457755.9	3768770	3.13E-03	3.13E-03	9.38E-04	3.55E-04
106	457747	3768774	3.03E-03	3.03E-03	9.07E-04	3.44E-04
107	457738.2	3768777	2.93E-03	2.93E-03	8.76E-04	3.32E-04
108	457729.3	3768781	2.83E-03	2.83E-03	8.48E-04	3.21E-04
109	458212.3	3768448	1.22E-02	1.22E-02	3.65E-03	1.38E-03
110	458208.7	3768457	1.22E-02	1.22E-02	3.65E-03	1.38E-03
111	458205.1	3768466	1.21E-02	1.21E-02	3.64E-03	1.38E-03
112	458201.5	3768475	1.21E-02	1.21E-02	3.62E-03	1.37E-03
113	458197.9	3768484	1.20E-02	1.20E-02	3.61E-03	1.37E-03
114	458194.3	3768493	1.20E-02	1.20E-02	3.58E-03	1.36E-03
115	458190.7	3768502	1.19E-02	1.19E-02	3.56E-03	1.35E-03
116	458187.1	3768511	1.18E-02	1.18E-02	3.52E-03	1.34E-03
117	458183.5	3768520	1.16E-02	1.16E-02	3.49E-03	1.32E-03
118	458179.9	3768529	1.15E-02	1.15E-02	3.45E-03	1.31E-03
119	458176.3	3768538	1.14E-02	1.14E-02	3.40E-03	1.29E-03
120	458172.7	3768547	1.12E-02	1.12E-02	3.35E-03	1.27E-03
121	458169.1	3768555	1.10E-02	1.10E-02	3.30E-03	1.25E-03
122	458165.4	3768564	1.08E-02	1.08E-02	3.25E-03	1.23E-03
123	458161.8	3768573	1.07E-02	1.07E-02	3.19E-03	1.21E-03
124	458158.2	3768582	1.05E-02	1.05E-02	3.13E-03	1.19E-03
125	458154.6	3768591	1.02E-02	1.02E-02	3.07E-03	1.16E-03
126	458151	3768600	1.00E-02	1.00E-02	3.00E-03	1.14E-03
127	458147.4	3768609	9.80E-03	9.80E-03	2.94E-03	1.11E-03
128	458143.8	3768618	9.57E-03	9.57E-03	2.87E-03	1.09E-03
129	458140.2	3768627	9.34E-03	9.34E-03	2.80E-03	1.06E-03
130	458093.8	3768669	8.17E-03	8.17E-03	2.45E-03	9.27E-04
131	458084.9	3768672	8.04E-03	8.04E-03	2.41E-03	9.12E-04
132	458076.1	3768676	7.90E-03	7.90E-03	2.37E-03	8.96E-04
133	458067.2	3768680	7.75E-03	7.75E-03	2.32E-03	8.80E-04
134	458058.3	3768683	7.60E-03	7.60E-03	2.28E-03	8.63E-04
135	458049.4	3768687	7.45E-03	7.45E-03	2.23E-03	8.45E-04
136	458040.5	3768691	7.29E-03	7.29E-03	2.18E-03	8.27E-04
137	458031.6	3768695	7.13E-03	7.13E-03	2.13E-03	8.09E-04
138	458022.7	3768698	6.96E-03	6.96E-03	2.09E-03	7.90E-04

139	458013.9	3768702	6.79E-03	6.79E-03	2.03E-03	7.71E-04
140	458005	3768706	6.62E-03	6.62E-03	1.98E-03	7.51E-04
141	457996.1	3768709	6.45E-03	6.45E-03	1.93E-03	7.32E-04
142	457987.2	3768713	6.27E-03	6.27E-03	1.88E-03	7.12E-04
143	457978.3	3768717	6.10E-03	6.10E-03	1.83E-03	6.92E-04
144	457969.4	3768721	5.93E-03	5.93E-03	1.77E-03	6.72E-04
145	457960.5	3768724	5.75E-03	5.75E-03	1.72E-03	6.53E-04
146	457951.6	3768728	5.58E-03	5.58E-03	1.67E-03	6.33E-04
147	457942.8	3768732	5.41E-03	5.41E-03	1.62E-03	6.14E-04
148	457933.9	3768735	5.24E-03	5.24E-03	1.57E-03	5.94E-04
149	457925	3768739	5.08E-03	5.08E-03	1.52E-03	5.76E-04
150	457916.1	3768743	4.92E-03	4.92E-03	1.47E-03	5.58E-04
151	457907.2	3768747	4.77E-03	4.77E-03	1.43E-03	5.41E-04
152	457898.3	3768750	4.61E-03	4.61E-03	1.38E-03	5.23E-04
153	457889.4	3768754	4.46E-03	4.46E-03	1.34E-03	5.06E-04
154	457880.6	3768758	4.31E-03	4.31E-03	1.29E-03	4.89E-04
155	457871.7	3768761	4.17E-03	4.17E-03	1.25E-03	4.74E-04
156	457862.8	3768765	4.03E-03	4.03E-03	1.21E-03	4.58E-04
157	457853.9	3768769	3.89E-03	3.89E-03	1.17E-03	4.42E-04
158	457845	3768773	3.75E-03	3.75E-03	1.12E-03	4.26E-04
159	457836.1	3768776	3.62E-03	3.62E-03	1.08E-03	4.11E-04
160	457827.2	3768780	3.49E-03	3.49E-03	1.05E-03	3.97E-04
161	457818.3	3768784	3.38E-03	3.38E-03	1.01E-03	3.83E-04
162	457809.5	3768787	3.27E-03	3.27E-03	9.79E-04	3.71E-04
163	457800.6	3768791	3.16E-03	3.16E-03	9.46E-04	3.58E-04
164	457791.7	3768795	3.05E-03	3.05E-03	9.14E-04	3.46E-04
165	457782.8	3768799	2.95E-03	2.95E-03	8.83E-04	3.34E-04
166	457773.9	3768802	2.85E-03	2.85E-03	8.54E-04	3.23E-04
167	457765	3768806	2.76E-03	2.76E-03	8.26E-04	3.13E-04
168	457756.1	3768810	2.67E-03	2.67E-03	7.99E-04	3.03E-04
169	457747.3	3768813	2.58E-03	2.58E-03	7.74E-04	2.93E-04
170	457738.4	3768817	2.50E-03	2.50E-03	7.50E-04	2.84E-04
171	457729.5	3768821	2.43E-03	2.43E-03	7.27E-04	2.75E-04
172	458250.2	3768453	1.13E-02	1.13E-02	3.37E-03	1.28E-03
173	458246.6	3768462	1.13E-02	1.13E-02	3.37E-03	1.28E-03
174	458243.1	3768471	1.13E-02	1.13E-02	3.37E-03	1.28E-03
175	458239.5	3768480	1.12E-02	1.12E-02	3.37E-03	1.28E-03
176	458236	3768488	1.12E-02	1.12E-02	3.36E-03	1.27E-03
177	458232.4	3768497	1.12E-02	1.12E-02	3.34E-03	1.27E-03
178	458228.9	3768506	1.11E-02	1.11E-02	3.32E-03	1.26E-03
179	458225.3	3768515	1.10E-02	1.10E-02	3.30E-03	1.25E-03
180	458221.8	3768524	1.09E-02	1.09E-02	3.28E-03	1.24E-03
181	458218.2	3768532	1.08E-02	1.08E-02	3.25E-03	1.23E-03
182	458214.7	3768541	1.07E-02	1.07E-02	3.22E-03	1.22E-03
183	458211.1	3768550	1.06E-02	1.06E-02	3.18E-03	1.20E-03
184	458207.6	3768559	1.05E-02	1.05E-02	3.14E-03	1.19E-03
185	458204	3768567	1.03E-02	1.03E-02	3.10E-03	1.17E-03

186	458200.5	3768576	1.02E-02	1.02E-02	3.05E-03	1.16E-03
187	458196.9	3768585	1.00E-02	1.00E-02	3.01E-03	1.14E-03
188	458193.3	3768594	9.87E-03	9.87E-03	2.96E-03	1.12E-03
189	458189.8	3768603	9.70E-03	9.70E-03	2.91E-03	1.10E-03
190	458186.2	3768611	9.52E-03	9.52E-03	2.85E-03	1.08E-03
191	458182.7	3768620	9.33E-03	9.33E-03	2.79E-03	1.06E-03
192	458179.1	3768629	9.14E-03	9.14E-03	2.74E-03	1.04E-03
193	458175.6	3768638	8.94E-03	8.94E-03	2.68E-03	1.01E-03
194	458172	3768647	8.74E-03	8.74E-03	2.62E-03	9.92E-04
195	458168.5	3768655	8.54E-03	8.54E-03	2.56E-03	9.68E-04
196	458164.9	3768664	8.33E-03	8.33E-03	2.49E-03	9.45E-04
197	458161.4	3768673	8.12E-03	8.12E-03	2.43E-03	9.21E-04
198	458149.1	3768685	7.81E-03	7.81E-03	2.34E-03	8.87E-04
199	458096.6	3768707	7.14E-03	7.14E-03	2.14E-03	8.10E-04
200	458087.8	3768711	7.01E-03	7.01E-03	2.10E-03	7.95E-04
201	458079.1	3768715	6.87E-03	6.87E-03	2.06E-03	7.80E-04
202	458070.3	3768718	6.73E-03	6.73E-03	2.02E-03	7.64E-04
203	458061.6	3768722	6.59E-03	6.59E-03	1.97E-03	7.48E-04
204	458052.8	3768726	6.45E-03	6.45E-03	1.93E-03	7.32E-04
205	458044.1	3768729	6.31E-03	6.31E-03	1.89E-03	7.16E-04
206	458035.3	3768733	6.16E-03	6.16E-03	1.84E-03	6.99E-04
207	458026.6	3768737	6.01E-03	6.01E-03	1.80E-03	6.82E-04
208	458017.8	3768740	5.85E-03	5.85E-03	1.75E-03	6.64E-04
209	458009.1	3768744	5.70E-03	5.70E-03	1.71E-03	6.47E-04
210	458000.3	3768748	5.55E-03	5.55E-03	1.66E-03	6.29E-04
211	457991.6	3768751	5.40E-03	5.40E-03	1.62E-03	6.13E-04
212	457982.8	3768755	5.25E-03	5.25E-03	1.57E-03	5.95E-04
213	457974.1	3768759	5.10E-03	5.10E-03	1.53E-03	5.78E-04
214	457965.3	3768762	4.95E-03	4.95E-03	1.48E-03	5.61E-04
215	457956.6	3768766	4.80E-03	4.80E-03	1.44E-03	5.45E-04
216	457947.8	3768770	4.65E-03	4.65E-03	1.39E-03	5.28E-04
217	457939.1	3768773	4.51E-03	4.51E-03	1.35E-03	5.12E-04
218	457930.3	3768777	4.37E-03	4.37E-03	1.31E-03	4.96E-04
219	457921.6	3768781	4.23E-03	4.23E-03	1.27E-03	4.80E-04
220	457912.8	3768784	4.09E-03	4.09E-03	1.23E-03	4.65E-04
221	457904.1	3768788	3.96E-03	3.96E-03	1.19E-03	4.50E-04
222	457895.3	3768792	3.83E-03	3.83E-03	1.15E-03	4.35E-04
223	457886.6	3768795	3.71E-03	3.71E-03	1.11E-03	4.21E-04
224	457877.8	3768799	3.59E-03	3.59E-03	1.07E-03	4.07E-04
225	457869.1	3768803	3.47E-03	3.47E-03	1.04E-03	3.94E-04
226	457860.3	3768806	3.35E-03	3.35E-03	1.00E-03	3.81E-04
227	457851.6	3768810	3.24E-03	3.24E-03	9.72E-04	3.68E-04
228	457842.8	3768813	3.14E-03	3.14E-03	9.40E-04	3.56E-04
229	457834.1	3768817	3.04E-03	3.04E-03	9.10E-04	3.45E-04
230	457825.3	3768821	2.94E-03	2.94E-03	8.81E-04	3.34E-04
231	457816.6	3768824	2.84E-03	2.84E-03	8.52E-04	3.23E-04
232	457807.8	3768828	2.75E-03	2.75E-03	8.25E-04	3.12E-04

233	457799.1	3768832	2.67E-03	2.67E-03	8.01E-04	3.03E-04
234	457790.3	3768835	2.60E-03	2.60E-03	7.77E-04	2.94E-04
235	457781.6	3768839	2.52E-03	2.52E-03	7.54E-04	2.86E-04
236	457772.8	3768843	2.44E-03	2.44E-03	7.32E-04	2.77E-04
237	457764.1	3768846	2.37E-03	2.37E-03	7.10E-04	2.69E-04
238	457755.3	3768850	2.31E-03	2.31E-03	6.91E-04	2.62E-04
239	457746.6	3768854	2.24E-03	2.24E-03	6.72E-04	2.54E-04
240	457737.8	3768857	2.18E-03	2.18E-03	6.52E-04	2.47E-04
241	457729.1	3768861	2.12E-03	2.12E-03	6.34E-04	2.40E-04
242	458289.8	3768454	1.04E-02	1.04E-02	3.11E-03	1.18E-03
243	458286.2	3768463	1.04E-02	1.04E-02	3.12E-03	1.18E-03
244	458282.6	3768471	1.04E-02	1.04E-02	3.13E-03	1.18E-03
245	458279	3768480	1.04E-02	1.04E-02	3.13E-03	1.18E-03
246	458275.5	3768489	1.04E-02	1.04E-02	3.13E-03	1.18E-03
247	458271.9	3768498	1.04E-02	1.04E-02	3.12E-03	1.18E-03
248	458268.3	3768507	1.04E-02	1.04E-02	3.11E-03	1.18E-03
249	458264.8	3768516	1.03E-02	1.03E-02	3.10E-03	1.17E-03
250	458261.2	3768524	1.03E-02	1.03E-02	3.08E-03	1.17E-03
251	458257.6	3768533	1.02E-02	1.02E-02	3.06E-03	1.16E-03
252	458254.1	3768542	1.02E-02	1.02E-02	3.04E-03	1.15E-03
253	458250.5	3768551	1.01E-02	1.01E-02	3.02E-03	1.14E-03
254	458246.9	3768560	9.97E-03	9.97E-03	2.99E-03	1.13E-03
255	458243.4	3768569	9.87E-03	9.87E-03	2.96E-03	1.12E-03
256	458239.8	3768577	9.75E-03	9.75E-03	2.92E-03	1.11E-03
257	458236.2	3768586	9.63E-03	9.63E-03	2.88E-03	1.09E-03
258	458232.7	3768595	9.50E-03	9.50E-03	2.85E-03	1.08E-03
259	458229.1	3768604	9.36E-03	9.36E-03	2.80E-03	1.06E-03
260	458225.5	3768613	9.21E-03	9.21E-03	2.76E-03	1.05E-03
261	458222	3768622	9.06E-03	9.06E-03	2.71E-03	1.03E-03
262	458218.4	3768630	8.90E-03	8.90E-03	2.67E-03	1.01E-03
263	458214.8	3768639	8.73E-03	8.73E-03	2.62E-03	9.91E-04
264	458211.3	3768648	8.56E-03	8.56E-03	2.56E-03	9.72E-04
265	458207.7	3768657	8.39E-03	8.39E-03	2.51E-03	9.52E-04
266	458204.1	3768666	8.21E-03	8.21E-03	2.46E-03	9.31E-04
267	458200.6	3768675	8.02E-03	8.02E-03	2.40E-03	9.10E-04
268	458197	3768683	7.84E-03	7.84E-03	2.35E-03	8.89E-04
269	458193.4	3768692	7.65E-03	7.65E-03	2.29E-03	8.68E-04
270	458189.9	3768701	7.46E-03	7.46E-03	2.23E-03	8.47E-04
271	458177.5	3768714	7.19E-03	7.19E-03	2.15E-03	8.15E-04
272	458168.7	3768717	7.10E-03	7.10E-03	2.13E-03	8.05E-04
273	458159.9	3768721	7.00E-03	7.00E-03	2.10E-03	7.94E-04
274	458151.1	3768725	6.90E-03	6.90E-03	2.07E-03	7.83E-04
275	458142.3	3768728	6.79E-03	6.79E-03	2.03E-03	7.71E-04
276	458098.4	3768747	6.20E-03	6.20E-03	1.86E-03	7.04E-04
277	458089.6	3768750	6.08E-03	6.08E-03	1.82E-03	6.89E-04
278	458080.8	3768754	5.94E-03	5.94E-03	1.78E-03	6.74E-04
279	458072	3768758	5.81E-03	5.81E-03	1.74E-03	6.60E-04

280	458063.2	3768761	5.68E-03	5.68E-03	1.70E-03	6.45E-04
281	458054.4	3768765	5.54E-03	5.54E-03	1.66E-03	6.29E-04
282	458045.7	3768769	5.41E-03	5.41E-03	1.62E-03	6.13E-04
283	458036.9	3768772	5.27E-03	5.27E-03	1.58E-03	5.98E-04
284	458028.1	3768776	5.13E-03	5.13E-03	1.54E-03	5.82E-04
285	458019.3	3768780	4.99E-03	4.99E-03	1.50E-03	5.67E-04
286	458010.5	3768783	4.86E-03	4.86E-03	1.46E-03	5.52E-04
287	458001.7	3768787	4.73E-03	4.73E-03	1.42E-03	5.36E-04
288	457992.9	3768791	4.59E-03	4.59E-03	1.38E-03	5.21E-04
289	457984.1	3768794	4.46E-03	4.46E-03	1.34E-03	5.06E-04
290	457975.3	3768798	4.34E-03	4.34E-03	1.30E-03	4.92E-04
291	457966.5	3768802	4.21E-03	4.21E-03	1.26E-03	4.78E-04
292	457957.8	3768805	4.09E-03	4.09E-03	1.22E-03	4.64E-04
293	457949	3768809	3.96E-03	3.96E-03	1.19E-03	4.49E-04
294	457940.2	3768813	3.83E-03	3.83E-03	1.15E-03	4.35E-04
295	457931.4	3768816	3.71E-03	3.71E-03	1.11E-03	4.21E-04
296	457922.6	3768820	3.59E-03	3.59E-03	1.08E-03	4.08E-04
297	457913.8	3768824	3.49E-03	3.49E-03	1.04E-03	3.95E-04
298	457905	3768827	3.38E-03	3.38E-03	1.01E-03	3.84E-04
299	457896.2	3768831	3.28E-03	3.28E-03	9.82E-04	3.72E-04
300	457887.4	3768835	3.17E-03	3.17E-03	9.50E-04	3.60E-04
301	457878.7	3768839	3.07E-03	3.07E-03	9.20E-04	3.49E-04
302	457869.9	3768842	2.98E-03	2.98E-03	8.92E-04	3.38E-04
303	457861.1	3768846	2.88E-03	2.88E-03	8.64E-04	3.27E-04
304	457852.3	3768850	2.79E-03	2.79E-03	8.37E-04	3.17E-04
305	457843.5	3768853	2.71E-03	2.71E-03	8.11E-04	3.07E-04
306	457834.7	3768857	2.62E-03	2.62E-03	7.85E-04	2.98E-04
307	457825.9	3768861	2.54E-03	2.54E-03	7.61E-04	2.88E-04
308	457817.1	3768864	2.46E-03	2.46E-03	7.38E-04	2.80E-04
309	457808.3	3768868	2.39E-03	2.39E-03	7.16E-04	2.71E-04
310	457799.5	3768872	2.32E-03	2.32E-03	6.95E-04	2.63E-04
311	457790.8	3768875	2.25E-03	2.25E-03	6.74E-04	2.55E-04
312	457782	3768879	2.19E-03	2.19E-03	6.55E-04	2.48E-04
313	457773.2	3768883	2.12E-03	2.12E-03	6.36E-04	2.41E-04
314	457764.4	3768886	2.06E-03	2.06E-03	6.18E-04	2.34E-04
315	457755.6	3768890	2.01E-03	2.01E-03	6.02E-04	2.28E-04
316	457746.8	3768894	1.96E-03	1.96E-03	5.86E-04	2.22E-04
317	457738	3768897	1.91E-03	1.91E-03	5.71E-04	2.16E-04
318	457729.2	3768901	1.86E-03	1.86E-03	5.57E-04	2.11E-04
319	458329.4	3768454	9.60E-03	9.60E-03	2.87E-03	1.09E-03
320	458325.8	3768463	9.64E-03	9.64E-03	2.89E-03	1.09E-03
321	458322.2	3768472	9.68E-03	9.68E-03	2.90E-03	1.10E-03
322	458318.6	3768481	9.70E-03	9.70E-03	2.90E-03	1.10E-03
323	458315	3768490	9.71E-03	9.71E-03	2.91E-03	1.10E-03
324	458311.5	3768499	9.71E-03	9.71E-03	2.91E-03	1.10E-03
325	458307.9	3768507	9.70E-03	9.70E-03	2.91E-03	1.10E-03
326	458304.3	3768516	9.68E-03	9.68E-03	2.90E-03	1.10E-03

327	458300.7	3768525	0.009655176	9.66E-03	2.89E-03	1.10E-03
328	458297.1	3768534	0.009619719	9.62E-03	2.88E-03	1.09E-03
329	458293.6	3768543	0.009574557	9.57E-03	2.87E-03	1.09E-03
330	458290	3768552	0.009519047	9.52E-03	2.85E-03	1.08E-03
331	458286.4	3768561	0.009452976	9.45E-03	2.83E-03	1.07E-03
332	458282.8	3768570	0.009376913	9.38E-03	2.81E-03	1.06E-03
333	458279.2	3768578	0.009291976	9.29E-03	2.78E-03	1.05E-03
334	458275.6	3768587	0.00919866	9.20E-03	2.76E-03	1.04E-03
335	458272.1	3768596	0.0090973	9.10E-03	2.72E-03	1.03E-03
336	458268.5	3768605	0.008988059	8.99E-03	2.69E-03	1.02E-03
337	458264.9	3768614	0.008871723	8.87E-03	2.66E-03	1.01E-03
338	458261.3	3768623	0.008748766	8.75E-03	2.62E-03	9.93E-04
339	458257.7	3768632	0.008618997	8.62E-03	2.58E-03	9.78E-04
340	458254.1	3768640	0.008482631	8.48E-03	2.54E-03	9.62E-04
341	458250.6	3768649	0.008340569	8.34E-03	2.50E-03	9.46E-04
342	458247	3768658	0.008193737	8.19E-03	2.45E-03	9.30E-04
343	458243.4	3768667	0.008041898	8.04E-03	2.41E-03	9.12E-04
344	458239.8	3768676	0.007885454	7.89E-03	2.36E-03	8.95E-04
345	458236.2	3768685	0.007726068	7.73E-03	2.31E-03	8.77E-04
346	458232.7	3768694	0.007563762	7.56E-03	2.27E-03	8.58E-04
347	458229.1	3768703	0.007398941	7.40E-03	2.22E-03	8.39E-04
348	458225.5	3768711	0.007230275	7.23E-03	2.17E-03	8.20E-04
349	458221.9	3768720	0.007059284	7.06E-03	2.11E-03	8.01E-04
350	458218.3	3768729	0.006887556	6.89E-03	2.06E-03	7.81E-04
351	458205.9	3768742	0.006639933	6.64E-03	1.99E-03	7.53E-04
352	458197.1	3768745	0.006557416	6.56E-03	1.96E-03	7.44E-04
353	458188.3	3768749	0.006467636	6.47E-03	1.94E-03	7.34E-04
354	458179.4	3768753	0.00637292	6.37E-03	1.91E-03	7.23E-04
355	458170.6	3768756	0.006273956	6.27E-03	1.88E-03	7.12E-04
356	458161.8	3768760	0.006175135	6.18E-03	1.85E-03	7.01E-04
357	458153	3768764	0.006074984	6.07E-03	1.82E-03	6.89E-04
358	458144.1	3768768	0.005972817	5.97E-03	1.79E-03	6.78E-04
359	458100	3768786	0.005390306	5.39E-03	1.61E-03	6.12E-04
360	458091.2	3768790	0.005273662	5.27E-03	1.58E-03	5.98E-04
361	458082.4	3768793	0.005158084	5.16E-03	1.54E-03	5.85E-04
362	458073.5	3768797	0.005036931	5.04E-03	1.51E-03	5.71E-04
363	458064.7	3768801	0.004909488	4.91E-03	1.47E-03	5.57E-04
364	458055.9	3768804	0.004781808	4.78E-03	1.43E-03	5.43E-04
365	458047.1	3768808	0.004655148	4.66E-03	1.39E-03	5.28E-04
366	458038.2	3768812	0.004532951	4.53E-03	1.36E-03	5.14E-04
367	458029.4	3768816	0.004413791	4.41E-03	1.32E-03	5.01E-04
368	458020.6	3768819	0.004297929	4.30E-03	1.29E-03	4.88E-04
369	458011.8	3768823	0.004178247	4.18E-03	1.25E-03	4.74E-04
370	458002.9	3768827	0.004059016	4.06E-03	1.22E-03	4.61E-04
371	457994.1	3768830	0.003940734	3.94E-03	1.18E-03	4.47E-04
372	457985.3	3768834	0.003825774	3.83E-03	1.15E-03	4.34E-04
373	457976.5	3768838	0.003712049	3.71E-03	1.11E-03	4.21E-04

374	457967.6	3768841	0.00360053	3.60E-03	1.08E-03	4.08E-04
375	457958.8	3768845	0.003491433	3.49E-03	1.05E-03	3.96E-04
376	457950	3768849	0.003384827	3.38E-03	1.01E-03	3.84E-04
377	457941.2	3768852	0.003280927	3.28E-03	9.83E-04	3.72E-04
378	457932.3	3768856	0.003179756	3.18E-03	9.52E-04	3.61E-04
379	457923.5	3768860	0.003081433	3.08E-03	9.23E-04	3.50E-04
380	457914.7	3768863	0.002986052	2.99E-03	8.94E-04	3.39E-04
381	457905.9	3768867	0.002893591	2.89E-03	8.67E-04	3.28E-04
382	457897	3768871	0.002805425	2.81E-03	8.40E-04	3.18E-04
383	457888.2	3768875	0.002722172	2.72E-03	8.15E-04	3.09E-04
384	457879.4	3768878	0.002639607	2.64E-03	7.91E-04	2.99E-04
385	457870.6	3768882	0.002558229	2.56E-03	7.66E-04	2.90E-04
386	457861.7	3768886	0.002484564	2.48E-03	7.44E-04	2.82E-04
387	457852.9	3768889	0.002415692	2.42E-03	7.24E-04	2.74E-04
388	457844.1	3768893	0.002347984	2.35E-03	7.03E-04	2.66E-04
389	457835.3	3768897	0.002278994	2.28E-03	6.83E-04	2.59E-04
390	457826.4	3768900	0.002209909	2.21E-03	6.62E-04	2.51E-04
391	457817.6	3768904	0.002143933	2.14E-03	6.42E-04	2.43E-04
392	457808.8	3768908	0.002081375	2.08E-03	6.23E-04	2.36E-04
393	457800	3768911	0.002026055	2.03E-03	6.07E-04	2.30E-04
394	457791.1	3768915	0.001974627	1.97E-03	5.91E-04	2.24E-04
395	457782.3	3768919	0.001925335	1.93E-03	5.77E-04	2.18E-04
396	457773.5	3768922	0.001873883	1.87E-03	5.61E-04	2.13E-04
397	457764.7	3768926	0.001822953	1.82E-03	5.46E-04	2.07E-04
398	457755.8	3768930	0.001774634	1.77E-03	5.32E-04	2.01E-04
399	457747	3768934	0.001729305	1.73E-03	5.18E-04	1.96E-04
400	457738.2	3768937	0.001688415	1.69E-03	5.06E-04	1.92E-04
401	457729.4	3768941	0.001650277	1.65E-03	4.94E-04	1.87E-04
402	458369	3768455	0.008871296	8.87E-03	2.66E-03	1.01E-03
403	458365.4	3768463	0.008920849	8.92E-03	2.67E-03	1.01E-03
404	458361.8	3768472	0.008965751	8.97E-03	2.69E-03	1.02E-03
405	458358.2	3768481	0.009003461	9.00E-03	2.70E-03	1.02E-03
406	458354.6	3768490	0.009032605	9.03E-03	2.71E-03	1.02E-03
407	458351.1	3768499	0.009051734	9.05E-03	2.71E-03	1.03E-03
408	458347.5	3768508	0.009059992	9.06E-03	2.71E-03	1.03E-03
409	458343.9	3768517	0.009059352	9.06E-03	2.71E-03	1.03E-03
410	458340.3	3768526	0.009050356	9.05E-03	2.71E-03	1.03E-03
411	458336.7	3768535	0.009035358	9.04E-03	2.71E-03	1.03E-03
412	458333.1	3768544	0.009011768	9.01E-03	2.70E-03	1.02E-03
413	458329.5	3768553	0.008978899	8.98E-03	2.69E-03	1.02E-03
414	458325.9	3768561	0.008936276	8.94E-03	2.68E-03	1.01E-03
415	458322.3	3768570	0.008884539	8.88E-03	2.66E-03	1.01E-03
416	458318.7	3768579	0.008824781	8.82E-03	2.64E-03	1.00E-03
417	458315.1	3768588	0.008756835	8.76E-03	2.62E-03	9.94E-04
418	458311.5	3768597	0.00868139	8.68E-03	2.60E-03	9.85E-04
419	458307.9	3768606	0.008598517	8.60E-03	2.58E-03	9.76E-04
420	458304.3	3768615	0.0085085	8.51E-03	2.55E-03	9.65E-04

421	458300.7	3768624	0.008412763	8.41E-03	2.52E-03	9.54E-04
422	458297.1	3768633	0.008309955	8.31E-03	2.49E-03	9.43E-04
423	458293.5	3768642	0.008200216	8.20E-03	2.46E-03	9.30E-04
424	458289.9	3768650	0.008084473	8.08E-03	2.42E-03	9.17E-04
425	458286.3	3768659	0.007963391	7.96E-03	2.39E-03	9.03E-04
426	458282.7	3768668	0.007837373	7.84E-03	2.35E-03	8.89E-04
427	458279.2	3768677	0.007706678	7.71E-03	2.31E-03	8.74E-04
428	458275.6	3768686	0.007571903	7.57E-03	2.27E-03	8.59E-04
429	458272	3768695	0.007433044	7.43E-03	2.23E-03	8.43E-04
430	458268.4	3768704	0.007290935	7.29E-03	2.18E-03	8.27E-04
431	458264.8	3768713	0.007144554	7.14E-03	2.14E-03	8.11E-04
432	458261.2	3768722	0.006994352	6.99E-03	2.09E-03	7.94E-04
433	458257.6	3768731	0.006841373	6.84E-03	2.05E-03	7.76E-04
434	458254	3768739	0.006687136	6.69E-03	2.00E-03	7.59E-04
435	458250.4	3768748	0.006533707	6.53E-03	1.96E-03	7.41E-04
436	458246.8	3768757	0.006379185	6.38E-03	1.91E-03	7.24E-04
437	458234.3	3768770	0.006151118	6.15E-03	1.84E-03	6.98E-04
438	458225.5	3768774	0.006074557	6.07E-03	1.82E-03	6.89E-04
439	458216.6	3768777	0.005993511	5.99E-03	1.80E-03	6.80E-04
440	458207.8	3768781	0.005908953	5.91E-03	1.77E-03	6.70E-04
441	458198.9	3768785	0.005820716	5.82E-03	1.74E-03	6.60E-04
442	458190.1	3768788	0.00572918	5.73E-03	1.72E-03	6.50E-04
443	458181.2	3768792	0.005634227	5.63E-03	1.69E-03	6.39E-04
444	458172.3	3768796	0.005536616	5.54E-03	1.66E-03	6.28E-04
445	458163.5	3768799	0.005436323	5.44E-03	1.63E-03	6.17E-04
446	458154.6	3768803	0.005333538	5.33E-03	1.60E-03	6.05E-04
447	458145.8	3768807	0.005228522	5.23E-03	1.57E-03	5.93E-04
448	458101.5	3768825	0.004681516	4.68E-03	1.40E-03	5.31E-04
449	458092.6	3768829	0.00456919	4.57E-03	1.37E-03	5.18E-04
450	458083.8	3768833	0.004456794	4.46E-03	1.33E-03	5.06E-04
451	458074.9	3768836	0.004344539	4.34E-03	1.30E-03	4.93E-04
452	458066.1	3768840	0.004232713	4.23E-03	1.27E-03	4.80E-04
453	458057.2	3768844	0.004121289	4.12E-03	1.23E-03	4.68E-04
454	458048.3	3768848	0.004010886	4.01E-03	1.20E-03	4.55E-04
455	458039.5	3768851	0.003902833	3.90E-03	1.17E-03	4.43E-04
456	458030.6	3768855	0.003793617	3.79E-03	1.14E-03	4.30E-04
457	458021.8	3768859	0.003685777	3.69E-03	1.10E-03	4.18E-04
458	458012.9	3768862	0.00358584	3.59E-03	1.07E-03	4.07E-04
459	458004	3768866	0.003487517	3.49E-03	1.04E-03	3.96E-04
460	457995.2	3768870	0.003388932	3.39E-03	1.02E-03	3.84E-04
461	457986.3	3768874	0.003288806	3.29E-03	9.85E-04	3.73E-04
462	457977.5	3768877	0.003187397	3.19E-03	9.55E-04	3.62E-04
463	457968.6	3768881	0.003088885	3.09E-03	9.25E-04	3.50E-04
464	457959.8	3768885	0.002992911	2.99E-03	8.96E-04	3.40E-04
465	457950.9	3768888	0.00290878	2.91E-03	8.71E-04	3.30E-04
466	457942	3768892	0.002826879	2.83E-03	8.47E-04	3.21E-04
467	457933.2	3768896	0.002745454	2.75E-03	8.22E-04	3.11E-04

468	457924.3	3768899	0.00266417	2.66E-03	7.98E-04	3.02E-04
469	457915.5	3768903	0.002585901	2.59E-03	7.75E-04	2.93E-04
470	457906.6	3768907	0.002512402	2.51E-03	7.53E-04	2.85E-04
471	457897.8	3768911	0.002441917	2.44E-03	7.31E-04	2.77E-04
472	457888.9	3768914	0.002370055	2.37E-03	7.10E-04	2.69E-04
473	457880	3768918	0.002300235	2.30E-03	6.89E-04	2.61E-04
474	457871.2	3768922	0.002233831	2.23E-03	6.69E-04	2.53E-04
475	457862.3	3768925	0.002170015	2.17E-03	6.50E-04	2.46E-04
476	457853.5	3768929	0.002108572	2.11E-03	6.32E-04	2.39E-04
477	457844.6	3768933	0.002049502	2.05E-03	6.14E-04	2.33E-04
478	457835.8	3768936	0.001992948	1.99E-03	5.97E-04	2.26E-04
479	457826.9	3768940	0.001938791	1.94E-03	5.81E-04	2.20E-04
480	457818	3768944	0.001886817	1.89E-03	5.65E-04	2.14E-04
481	457809.2	3768948	0.001837145	1.84E-03	5.50E-04	2.08E-04
482	457800.3	3768951	0.001789586	1.79E-03	5.36E-04	2.03E-04
483	457791.5	3768955	0.001744138	1.74E-03	5.22E-04	1.98E-04
484	457782.6	3768959	0.001700566	1.70E-03	5.09E-04	1.93E-04
485	457773.8	3768962	0.001658963	1.66E-03	4.97E-04	1.88E-04
486	457764.9	3768966	0.00161914	1.62E-03	4.85E-04	1.84E-04
487	457756	3768970	0.001581073	1.58E-03	4.74E-04	1.79E-04
488	457747.2	3768973	0.001544715	1.54E-03	4.63E-04	1.75E-04
489	457738.3	3768977	0.001509686	1.51E-03	4.52E-04	1.71E-04
490	457729.5	3768981	0.001476295	1.48E-03	4.42E-04	1.67E-04
491	458408.7	3768455	0.00821607	8.22E-03	2.46E-03	9.32E-04
492	458405.1	3768464	0.008271865	8.27E-03	2.48E-03	9.38E-04
493	458401.5	3768473	0.008323672	8.32E-03	2.49E-03	9.44E-04
494	458397.9	3768482	0.008369784	8.37E-03	2.51E-03	9.50E-04
495	458394.3	3768491	0.008408183	8.41E-03	2.52E-03	9.54E-04
496	458390.7	3768500	0.008438228	8.44E-03	2.53E-03	9.57E-04
497	458387.1	3768508	0.008458899	8.46E-03	2.53E-03	9.60E-04
498	458383.5	3768517	0.008471952	8.47E-03	2.54E-03	9.61E-04
499	458379.9	3768526	0.008477529	8.48E-03	2.54E-03	9.62E-04
500	458376.3	3768535	0.008478739	8.48E-03	2.54E-03	9.62E-04
501	458372.6	3768544	0.008471691	8.47E-03	2.54E-03	9.61E-04
502	458369	3768553	0.008456763	8.46E-03	2.53E-03	9.59E-04
503	458365.4	3768562	0.008432936	8.43E-03	2.53E-03	9.57E-04
504	458361.8	3768571	0.00840104	8.40E-03	2.52E-03	9.53E-04
505	458358.2	3768580	0.008361478	8.36E-03	2.50E-03	9.49E-04
506	458354.6	3768589	0.008315437	8.32E-03	2.49E-03	9.43E-04
507	458351	3768598	0.008263083	8.26E-03	2.47E-03	9.37E-04
508	458347.4	3768607	0.008203159	8.20E-03	2.46E-03	9.31E-04
509	458343.8	3768616	0.00813602	8.14E-03	2.44E-03	9.23E-04
510	458340.2	3768625	0.008061928	8.06E-03	2.41E-03	9.15E-04
511	458336.6	3768633	0.007981618	7.98E-03	2.39E-03	9.06E-04
512	458333	3768642	0.00789509	7.90E-03	2.36E-03	8.96E-04
513	458329.4	3768651	0.007802889	7.80E-03	2.34E-03	8.85E-04
514	458325.8	3768660	0.007705088	7.71E-03	2.31E-03	8.74E-04

515	458322.2	3768669	0.007602066	7.60E-03	2.28E-03	8.62E-04
516	458318.5	3768678	0.00749406	7.49E-03	2.24E-03	8.50E-04
517	458314.9	3768687	0.007381095	7.38E-03	2.21E-03	8.37E-04
518	458311.3	3768696	0.007263619	7.26E-03	2.18E-03	8.24E-04
519	458307.7	3768705	0.007142323	7.14E-03	2.14E-03	8.10E-04
520	458304.1	3768714	0.007017918	7.02E-03	2.10E-03	7.96E-04
521	458300.5	3768723	0.006889668	6.89E-03	2.06E-03	7.82E-04
522	458296.9	3768732	0.006757977	6.76E-03	2.02E-03	7.67E-04
523	458293.3	3768741	0.006624056	6.62E-03	1.98E-03	7.52E-04
524	458289.7	3768750	0.006488616	6.49E-03	1.94E-03	7.36E-04
525	458286.1	3768759	0.006351656	6.35E-03	1.90E-03	7.21E-04
526	458282.5	3768767	0.006212845	6.21E-03	1.86E-03	7.05E-04
527	458278.9	3768776	0.006069953	6.07E-03	1.82E-03	6.89E-04
528	458275.3	3768785	0.00592566	5.93E-03	1.77E-03	6.72E-04
529	458262.8	3768798	0.005711238	5.71E-03	1.71E-03	6.48E-04
530	458253.9	3768802	0.005642485	5.64E-03	1.69E-03	6.40E-04
531	458245	3768805	0.005570672	5.57E-03	1.67E-03	6.32E-04
532	458236.1	3768809	0.005494538	5.49E-03	1.65E-03	6.23E-04
533	458227.2	3768813	0.005413611	5.41E-03	1.62E-03	6.14E-04
534	458218.3	3768817	0.005327296	5.33E-03	1.60E-03	6.04E-04
535	458209.4	3768820	0.005237968	5.24E-03	1.57E-03	5.94E-04
536	458200.6	3768824	0.00514591	5.15E-03	1.54E-03	5.84E-04
537	458191.7	3768828	0.005057839	5.06E-03	1.51E-03	5.74E-04
538	458182.8	3768831	0.004968771	4.97E-03	1.49E-03	5.64E-04
539	458173.9	3768835	0.0048765	4.88E-03	1.46E-03	5.53E-04
540	458165	3768839	0.004780218	4.78E-03	1.43E-03	5.42E-04
541	458156.1	3768843	0.004682963	4.68E-03	1.40E-03	5.31E-04
542	458147.2	3768846	0.004586467	4.59E-03	1.37E-03	5.20E-04
543	458102.8	3768865	0.004077835	4.08E-03	1.22E-03	4.63E-04
544	458093.9	3768869	0.003976925	3.98E-03	1.19E-03	4.51E-04
545	458085	3768872	0.003878151	3.88E-03	1.16E-03	4.40E-04
546	458076.2	3768876	0.003780279	3.78E-03	1.13E-03	4.29E-04
547	458067.3	3768880	0.003680556	3.68E-03	1.10E-03	4.18E-04
548	458058.4	3768883	0.00358171	3.58E-03	1.07E-03	4.06E-04
549	458049.5	3768887	0.003483435	3.48E-03	1.04E-03	3.95E-04
550	458040.6	3768891	0.003385183	3.39E-03	1.01E-03	3.84E-04
551	458031.7	3768895	0.003290325	3.29E-03	9.86E-04	3.73E-04
552	458022.8	3768898	0.003199216	3.20E-03	9.58E-04	3.63E-04
553	458013.9	3768902	0.003109175	3.11E-03	9.31E-04	3.53E-04
554	458005.1	3768906	0.003019776	3.02E-03	9.04E-04	3.43E-04
555	457996.2	3768909	0.002932607	2.93E-03	8.78E-04	3.33E-04
556	457987.3	3768913	0.002847336	2.85E-03	8.53E-04	3.23E-04
557	457978.4	3768917	0.002764368	2.76E-03	8.28E-04	3.14E-04
558	457969.5	3768921	0.002683726	2.68E-03	8.04E-04	3.04E-04
559	457960.6	3768924	0.002605195	2.61E-03	7.80E-04	2.96E-04
560	457951.7	3768928	0.002529133	2.53E-03	7.58E-04	2.87E-04
561	457942.9	3768932	0.002455397	2.46E-03	7.35E-04	2.79E-04

562	457934	3768935	0.002384105	2.38E-03	7.14E-04	2.70E-04
563	457925.1	3768939	0.00231604	2.32E-03	6.94E-04	2.63E-04
564	457916.2	3768943	0.00224978	2.25E-03	6.74E-04	2.55E-04
565	457907.3	3768947	0.002184492	2.18E-03	6.54E-04	2.48E-04
566	457898.4	3768950	0.002123357	2.12E-03	6.36E-04	2.41E-04
567	457889.5	3768954	0.002068441	2.07E-03	6.20E-04	2.35E-04
568	457880.6	3768958	0.002013951	2.01E-03	6.03E-04	2.28E-04
569	457871.8	3768961	0.001960126	1.96E-03	5.87E-04	2.22E-04
570	457862.9	3768965	0.001905494	1.91E-03	5.71E-04	2.16E-04
571	457854	3768969	0.001852548	1.85E-03	5.55E-04	2.10E-04
572	457845.1	3768973	0.001801903	1.80E-03	5.40E-04	2.04E-04
573	457836.2	3768976	0.001755079	1.76E-03	5.26E-04	1.99E-04
574	457827.3	3768980	0.001714568	1.71E-03	5.14E-04	1.95E-04
575	457818.4	3768984	0.001674365	1.67E-03	5.01E-04	1.90E-04
576	457809.6	3768987	0.001634827	1.63E-03	4.90E-04	1.85E-04
577	457800.7	3768991	0.001593699	1.59E-03	4.77E-04	1.81E-04
578	457791.8	3768995	0.001554327	1.55E-03	4.66E-04	1.76E-04
579	457782.9	3768999	0.001516806	1.52E-03	4.54E-04	1.72E-04
580	457774	3769002	0.00148294	1.48E-03	4.44E-04	1.68E-04
581	457765.1	3769006	0.001452254	1.45E-03	4.35E-04	1.65E-04
582	457756.2	3769010	0.001422897	1.42E-03	4.26E-04	1.61E-04
583	457747.3	3769013	0.001393421	1.39E-03	4.17E-04	1.58E-04
584	457738.5	3769017	0.001364112	1.36E-03	4.09E-04	1.55E-04
585	457729.6	3769021	0.001336749	1.34E-03	4.00E-04	1.52E-04
586	457992.7	3767772	0.003546207	3.55E-03	1.06E-03	4.02E-04
587	457996.5	3767781	0.003594075	3.59E-03	1.08E-03	4.08E-04
588	458000.4	3767790	0.003646595	3.65E-03	1.09E-03	4.14E-04
589	458004.2	3767799	0.003703837	3.70E-03	1.11E-03	4.20E-04
590	458008	3767808	0.00376604	3.77E-03	1.13E-03	4.27E-04
591	458011.9	3767817	0.003833653	3.83E-03	1.15E-03	4.35E-04
592	458015.7	3767826	0.0039072	3.91E-03	1.17E-03	4.43E-04
593	457991	3767709	0.00311442	3.11E-03	9.33E-04	3.53E-04
594	458000.1	3767713	0.003073269	3.07E-03	9.20E-04	3.49E-04
595	458013.1	3767725	0.003064084	3.06E-03	9.18E-04	3.48E-04
596	458017	3767735	0.003096265	3.10E-03	9.27E-04	3.51E-04
597	458020.8	3767744	0.003131081	3.13E-03	9.38E-04	3.55E-04
598	458024.7	3767753	0.003168198	3.17E-03	9.49E-04	3.59E-04
599	458028.5	3767762	0.003208424	3.21E-03	9.61E-04	3.64E-04
600	458032.4	3767771	0.003252305	3.25E-03	9.74E-04	3.69E-04
601	458036.2	3767780	0.003300197	3.30E-03	9.88E-04	3.74E-04
602	458040.1	3767789	0.00335229	3.35E-03	1.00E-03	3.80E-04
603	458043.9	3767798	0.003408915	3.41E-03	1.02E-03	3.87E-04
604	458047.8	3767807	0.003469978	3.47E-03	1.04E-03	3.94E-04
605	458051.6	3767816	0.003535077	3.54E-03	1.06E-03	4.01E-04
606	458055.5	3767825	0.003605229	3.61E-03	1.08E-03	4.09E-04
607	457708.6	3767553	0.005131528	5.13E-03	1.54E-03	5.82E-04
608	457717.7	3767557	0.005037002	5.04E-03	1.51E-03	5.71E-04

609	457726.8	3767561	0.004942998	4.94E-03	1.48E-03	5.61E-04
610	457736	3767565	0.004849469	4.85E-03	1.45E-03	5.50E-04
611	457745.1	3767568	0.004756629	4.76E-03	1.42E-03	5.40E-04
612	457754.2	3767572	0.004664689	4.66E-03	1.40E-03	5.29E-04
613	457991.7	3767669	0.002896296	2.90E-03	8.67E-04	3.29E-04
614	458000.8	3767673	0.002855619	2.86E-03	8.55E-04	3.24E-04
615	458010	3767677	0.002816698	2.82E-03	8.44E-04	3.20E-04
616	458019.1	3767680	0.002779723	2.78E-03	8.33E-04	3.15E-04
617	458028.2	3767684	0.002744504	2.74E-03	8.22E-04	3.11E-04
618	458041.2	3767697	0.002735154	2.74E-03	8.19E-04	3.10E-04
619	458045.1	3767706	0.002760903	2.76E-03	8.27E-04	3.13E-04
620	458048.9	3767715	0.002788741	2.79E-03	8.35E-04	3.16E-04
621	458052.8	3767724	0.002818288	2.82E-03	8.44E-04	3.20E-04
622	458056.7	3767733	0.002850161	2.85E-03	8.54E-04	3.23E-04
623	458060.5	3767742	0.002884668	2.88E-03	8.64E-04	3.27E-04
624	458064.4	3767752	0.002922283	2.92E-03	8.75E-04	3.32E-04
625	458068.2	3767761	0.002963198	2.96E-03	8.88E-04	3.36E-04
626	458072.1	3767770	0.003007388	3.01E-03	9.01E-04	3.41E-04
627	458076	3767779	0.003055113	3.06E-03	9.15E-04	3.47E-04
628	458079.8	3767788	0.003106517	3.11E-03	9.30E-04	3.52E-04
629	458083.7	3767797	0.003161838	3.16E-03	9.47E-04	3.59E-04
630	458087.5	3767806	0.003221335	3.22E-03	9.65E-04	3.65E-04
631	458091.4	3767815	0.003284486	3.28E-03	9.84E-04	3.73E-04
632	458095.3	3767824	0.003352052	3.35E-03	1.00E-03	3.80E-04
633	457699.4	3767550	0.00522603	5.23E-03	1.57E-03	5.93E-04
634	457689.5	3767550	0.00537863	5.38E-03	1.61E-03	6.10E-04
635	457679.5	3767550	0.005534788	5.53E-03	1.66E-03	6.28E-04
636	457669.6	3767550	0.005694555	5.69E-03	1.71E-03	6.46E-04
637	457659.7	3767550	0.005857264	5.86E-03	1.75E-03	6.65E-04
638	457649.7	3767550	0.006022464	6.02E-03	1.80E-03	6.83E-04
639	457639.8	3767550	0.006190062	6.19E-03	1.85E-03	7.02E-04
640	457629.8	3767550	0.006360152	6.36E-03	1.90E-03	7.22E-04
641	457619.9	3767550	0.006532307	6.53E-03	1.96E-03	7.41E-04
642	457609.9	3767550	0.006706241	6.71E-03	2.01E-03	7.61E-04
643	457600	3767550	0.006881505	6.88E-03	2.06E-03	7.81E-04
644	457590	3767550	0.007058405	7.06E-03	2.11E-03	8.01E-04
645	457580.1	3767550	0.007236042	7.24E-03	2.17E-03	8.21E-04
646	457570.1	3767550	0.007413489	7.41E-03	2.22E-03	8.41E-04
647	457560.2	3767550	0.007590509	7.59E-03	2.27E-03	8.61E-04
648	457550.2	3767550	0.007766532	7.77E-03	2.33E-03	8.81E-04
649	457540.3	3767550	0.007941321	7.94E-03	2.38E-03	9.01E-04
650	457530.3	3767550	0.008113878	8.11E-03	2.43E-03	9.21E-04
651	457520.4	3767550	0.008284157	8.28E-03	2.48E-03	9.40E-04
652	457510.4	3767550	0.008451447	8.45E-03	2.53E-03	9.59E-04
653	457500.5	3767550	0.008614915	8.61E-03	2.58E-03	9.77E-04
654	457490.5	3767550	0.008774539	8.77E-03	2.63E-03	9.96E-04
655	457480.6	3767550	0.008929298	8.93E-03	2.67E-03	1.01E-03

656	457470.6	3767550	0.009079073	9.08E-03	2.72E-03	1.03E-03
657	457460.7	3767550	0.009223129	9.22E-03	2.76E-03	1.05E-03
658	457450.7	3767550	0.00936137	9.36E-03	2.80E-03	1.06E-03
659	457440.8	3767550	0.009492823	9.49E-03	2.84E-03	1.08E-03
660	457430.8	3767550	0.009617513	9.62E-03	2.88E-03	1.09E-03
661	457420.9	3767550	0.009734798	9.73E-03	2.92E-03	1.10E-03
662	457410.9	3767550	0.009844039	9.84E-03	2.95E-03	1.12E-03
663	457401	3767550	0.009945399	9.95E-03	2.98E-03	1.13E-03
664	457391	3767550	0.010038	1.00E-02	3.01E-03	1.14E-03
665	457381.1	3767550	0.01012071	1.01E-02	3.03E-03	1.15E-03
666	457371.1	3767550	0.01019369	1.02E-02	3.05E-03	1.16E-03
667	457361.2	3767550	0.01025776	1.03E-02	3.07E-03	1.16E-03
668	457351.2	3767550	0.01031168	1.03E-02	3.09E-03	1.17E-03
669	457341.3	3767550	0.01035623	1.04E-02	3.10E-03	1.17E-03
670	457331.3	3767550	0.01039107	1.04E-02	3.11E-03	1.18E-03
671	457321.4	3767550	0.01041603	1.04E-02	3.12E-03	1.18E-03
672	457708.5	3767513	0.004710943	4.71E-03	1.41E-03	5.34E-04
673	457717.7	3767517	0.004629209	4.63E-03	1.39E-03	5.25E-04
674	457726.8	3767521	0.00454738	4.55E-03	1.36E-03	5.16E-04
675	457736	3767525	0.004465931	4.47E-03	1.34E-03	5.07E-04
676	457745.1	3767528	0.004385312	4.39E-03	1.31E-03	4.98E-04
677	457754.3	3767532	0.004305642	4.31E-03	1.29E-03	4.88E-04
678	457763.4	3767536	0.004226851	4.23E-03	1.27E-03	4.80E-04
679	457772.6	3767540	0.0041487	4.15E-03	1.24E-03	4.71E-04
680	457781.7	3767543	0.004071357	4.07E-03	1.22E-03	4.62E-04
681	457790.9	3767547	0.003995128	4.00E-03	1.20E-03	4.53E-04
682	457800.1	3767551	0.003920157	3.92E-03	1.17E-03	4.45E-04
683	457809.2	3767555	0.00384654	3.85E-03	1.15E-03	4.36E-04
684	457818.4	3767558	0.003774204	3.77E-03	1.13E-03	4.28E-04
685	457827.5	3767562	0.003703363	3.70E-03	1.11E-03	4.20E-04
686	457836.7	3767566	0.003634017	3.63E-03	1.09E-03	4.12E-04
687	457845.8	3767570	0.003566735	3.57E-03	1.07E-03	4.05E-04
688	457855	3767573	0.00350121	3.50E-03	1.05E-03	3.97E-04
689	457864.1	3767577	0.003437086	3.44E-03	1.03E-03	3.90E-04
690	457992.2	3767630	0.002712181	2.71E-03	8.12E-04	3.08E-04
691	458001.4	3767633	0.00267288	2.67E-03	8.01E-04	3.03E-04
692	458010.5	3767637	0.002635264	2.64E-03	7.89E-04	2.99E-04
693	458019.7	3767641	0.002599215	2.60E-03	7.79E-04	2.95E-04
694	458028.8	3767644	0.002564708	2.56E-03	7.68E-04	2.91E-04
695	458038	3767648	0.00253172	2.53E-03	7.58E-04	2.87E-04
696	458047.1	3767652	0.002500298	2.50E-03	7.49E-04	2.84E-04
697	458056.3	3767656	0.002470182	2.47E-03	7.40E-04	2.80E-04
698	458069.3	3767669	0.002460689	2.46E-03	7.37E-04	2.79E-04
699	458073.2	3767678	0.002481384	2.48E-03	7.43E-04	2.82E-04
700	458077.1	3767687	0.002503858	2.50E-03	7.50E-04	2.84E-04
701	458080.9	3767696	0.002528065	2.53E-03	7.57E-04	2.87E-04
702	458084.8	3767705	0.002554195	2.55E-03	7.65E-04	2.90E-04

703	458088.7	3767714	0.002582388	2.58E-03	7.73E-04	2.93E-04
704	458092.5	3767723	0.002612268	2.61E-03	7.82E-04	2.96E-04
705	457699.4	3767510	0.004792654	4.79E-03	1.44E-03	5.44E-04
706	457689.4	3767510	0.004924464	4.92E-03	1.47E-03	5.59E-04
707	457679.5	3767510	0.005059073	5.06E-03	1.52E-03	5.74E-04
708	457669.5	3767510	0.005196673	5.20E-03	1.56E-03	5.90E-04
709	457659.6	3767510	0.005336765	5.34E-03	1.60E-03	6.05E-04
710	457649.6	3767510	0.005478092	5.48E-03	1.64E-03	6.22E-04
711	457639.7	3767510	0.005621293	5.62E-03	1.68E-03	6.38E-04
712	457629.7	3767510	0.00576625	5.77E-03	1.73E-03	6.54E-04
713	457619.8	3767510	0.005914624	5.91E-03	1.77E-03	6.71E-04
714	457609.8	3767510	0.00606466	6.06E-03	1.82E-03	6.88E-04
715	457599.9	3767510	0.006215883	6.22E-03	1.86E-03	7.05E-04
716	457589.9	3767510	0.00636777	6.37E-03	1.91E-03	7.22E-04
717	457580	3767510	0.006520298	6.52E-03	1.95E-03	7.40E-04
718	457570	3767510	0.006672826	6.67E-03	2.00E-03	7.57E-04
719	457560.1	3767510	0.006825283	6.83E-03	2.04E-03	7.74E-04
720	457550.1	3767510	0.006976956	6.98E-03	2.09E-03	7.92E-04
721	457540.2	3767510	0.007127633	7.13E-03	2.13E-03	8.09E-04
722	457530.3	3767510	0.007276814	7.28E-03	2.18E-03	8.26E-04
723	457520.3	3767510	0.007424382	7.42E-03	2.22E-03	8.42E-04
724	457510.4	3767510	0.007569672	7.57E-03	2.27E-03	8.59E-04
725	457500.4	3767510	0.007712089	7.71E-03	2.31E-03	8.75E-04
726	457490.5	3767510	0.007851635	7.85E-03	2.35E-03	8.91E-04
727	457480.5	3767510	0.007987385	7.99E-03	2.39E-03	9.06E-04
728	457470.6	3767510	0.008119456	8.12E-03	2.43E-03	9.21E-04
729	457460.6	3767510	0.008246945	8.25E-03	2.47E-03	9.36E-04
730	457450.7	3767510	0.008369974	8.37E-03	2.51E-03	9.50E-04
731	457440.7	3767510	0.00848752	8.49E-03	2.54E-03	9.63E-04
732	457430.8	3767510	0.008599916	8.60E-03	2.58E-03	9.76E-04
733	457420.8	3767510	0.008706476	8.71E-03	2.61E-03	9.88E-04
734	457410.9	3767510	0.008806673	8.81E-03	2.64E-03	9.99E-04
735	457400.9	3767510	0.008900629	8.90E-03	2.67E-03	1.01E-03
736	457391	3767510	0.008987538	8.99E-03	2.69E-03	1.02E-03
737	457381	3767510	0.009067729	9.07E-03	2.72E-03	1.03E-03
738	457371.1	3767510	0.00914035	9.14E-03	2.74E-03	1.04E-03
739	457361.1	3767510	0.009205803	9.21E-03	2.76E-03	1.04E-03
740	457351.2	3767510	0.009262999	9.26E-03	2.77E-03	1.05E-03
741	457341.2	3767510	0.009312623	9.31E-03	2.79E-03	1.06E-03
742	457331.3	3767510	0.009354369	9.35E-03	2.80E-03	1.06E-03
743	457321.3	3767510	0.009385909	9.39E-03	2.81E-03	1.06E-03
744	457708.5	3767473	0.0043406	4.34E-03	1.30E-03	4.92E-04
745	457717.7	3767477	0.00426964	4.27E-03	1.28E-03	4.84E-04
746	457726.8	3767481	0.004198941	4.20E-03	1.26E-03	4.76E-04
747	457736	3767485	0.004128267	4.13E-03	1.24E-03	4.68E-04
748	457745.2	3767488	0.004057663	4.06E-03	1.22E-03	4.60E-04
749	457754.3	3767492	0.003987676	3.99E-03	1.19E-03	4.52E-04

750	457763.5	3767496	0.003918401	3.92E-03	1.17E-03	4.45E-04
751	457772.7	3767500	0.003849767	3.85E-03	1.15E-03	4.37E-04
752	457781.8	3767503	0.003782083	3.78E-03	1.13E-03	4.29E-04
753	457791	3767507	0.003716059	3.72E-03	1.11E-03	4.22E-04
754	457800.2	3767511	0.003650914	3.65E-03	1.09E-03	4.14E-04
755	457809.3	3767515	0.003586433	3.59E-03	1.07E-03	4.07E-04
756	457818.5	3767518	0.003522356	3.52E-03	1.05E-03	4.00E-04
757	457827.7	3767522	0.00345937	3.46E-03	1.04E-03	3.92E-04
758	457836.8	3767526	0.003397595	3.40E-03	1.02E-03	3.85E-04
759	457846	3767530	0.003336983	3.34E-03	9.99E-04	3.79E-04
760	457855.2	3767533	0.003277699	3.28E-03	9.82E-04	3.72E-04
761	457864.3	3767537	0.003219745	3.22E-03	9.64E-04	3.65E-04
762	457873.5	3767541	0.003163452	3.16E-03	9.48E-04	3.59E-04
763	457882.7	3767545	0.003108677	3.11E-03	9.31E-04	3.53E-04
764	457891.9	3767548	0.003054995	3.05E-03	9.15E-04	3.47E-04
765	457901	3767552	0.003002594	3.00E-03	8.99E-04	3.41E-04
766	457910.2	3767556	0.002951308	2.95E-03	8.84E-04	3.35E-04
767	457919.4	3767560	0.002901423	2.90E-03	8.69E-04	3.29E-04
768	457928.5	3767563	0.00285289	2.85E-03	8.54E-04	3.24E-04
769	457937.7	3767567	0.002805852	2.81E-03	8.40E-04	3.18E-04
770	457946.9	3767571	0.00276031	2.76E-03	8.27E-04	3.13E-04
771	457956	3767575	0.002716215	2.72E-03	8.14E-04	3.08E-04
772	457965.2	3767578	0.00267345	2.67E-03	8.01E-04	3.03E-04
773	458047.7	3767612	0.002348791	2.35E-03	7.03E-04	2.66E-04
774	458056.9	3767616	0.002319173	2.32E-03	6.95E-04	2.63E-04
775	458066	3767620	0.002290766	2.29E-03	6.86E-04	2.60E-04
776	458075.2	3767624	0.002263568	2.26E-03	6.78E-04	2.57E-04
777	458084.4	3767627	0.002237581	2.24E-03	6.70E-04	2.54E-04
778	457699.3	3767470	0.004411678	4.41E-03	1.32E-03	5.01E-04
779	457689.4	3767470	0.004526258	4.53E-03	1.36E-03	5.14E-04
780	457679.4	3767470	0.00464314	4.64E-03	1.39E-03	5.27E-04
781	457669.5	3767470	0.004762443	4.76E-03	1.43E-03	5.40E-04
782	457659.5	3767470	0.004883809	4.88E-03	1.46E-03	5.54E-04
783	457649.6	3767470	0.005007361	5.01E-03	1.50E-03	5.68E-04
784	457639.6	3767470	0.00513262	5.13E-03	1.54E-03	5.82E-04
785	457629.7	3767470	0.005259635	5.26E-03	1.58E-03	5.97E-04
786	457619.7	3767470	0.005388075	5.39E-03	1.61E-03	6.11E-04
787	457609.8	3767470	0.005517725	5.52E-03	1.65E-03	6.26E-04
788	457599.8	3767470	0.00564849	5.65E-03	1.69E-03	6.41E-04
789	457589.9	3767470	0.00577954	5.78E-03	1.73E-03	6.56E-04
790	457579.9	3767470	0.005911184	5.91E-03	1.77E-03	6.71E-04
791	457570	3767470	0.006042803	6.04E-03	1.81E-03	6.86E-04
792	457560	3767470	0.006175349	6.18E-03	1.85E-03	7.01E-04
793	457550.1	3767470	0.006307371	6.31E-03	1.89E-03	7.16E-04
794	457540.1	3767470	0.006438896	6.44E-03	1.93E-03	7.31E-04
795	457530.2	3767470	0.006568759	6.57E-03	1.97E-03	7.45E-04
796	457520.2	3767470	0.006697318	6.70E-03	2.01E-03	7.60E-04

797	457510.3	3767470	0.006824309	6.82E-03	2.04E-03	7.74E-04
798	457500.3	3767470	0.006949071	6.95E-03	2.08E-03	7.88E-04
799	457490.4	3767470	0.007071648	7.07E-03	2.12E-03	8.02E-04
800	457480.4	3767470	0.007191306	7.19E-03	2.15E-03	8.16E-04
801	457470.5	3767470	0.007308117	7.31E-03	2.19E-03	8.29E-04
802	457460.5	3767470	0.00742132	7.42E-03	2.22E-03	8.42E-04
803	457450.6	3767470	0.007531035	7.53E-03	2.26E-03	8.54E-04
804	457440.6	3767470	0.007636526	7.64E-03	2.29E-03	8.66E-04
805	457430.7	3767470	0.00773791	7.74E-03	2.32E-03	8.78E-04
806	457420.8	3767470	0.007834524	7.83E-03	2.35E-03	8.89E-04
807	457410.8	3767470	0.007926132	7.93E-03	2.37E-03	8.99E-04
808	457400.9	3767470	0.008012778	8.01E-03	2.40E-03	9.09E-04
809	457390.9	3767470	0.008093825	8.09E-03	2.42E-03	9.18E-04
810	457381	3767470	0.008169388	8.17E-03	2.45E-03	9.27E-04
811	457371	3767470	0.0082389	8.24E-03	2.47E-03	9.35E-04
812	457361.1	3767470	0.008302574	8.30E-03	2.49E-03	9.42E-04
813	457351.1	3767470	0.00835984	8.36E-03	2.50E-03	9.48E-04
814	457341.2	3767470	0.008410889	8.41E-03	2.52E-03	9.54E-04
815	457331.2	3767470	0.008455458	8.46E-03	2.53E-03	9.59E-04
816	457321.3	3767470	0.008491128	8.49E-03	2.54E-03	9.63E-04
817	457745.2	3767448	0.003769884	3.77E-03	1.13E-03	4.28E-04
818	457754.4	3767452	0.003708512	3.71E-03	1.11E-03	4.21E-04
819	457763.5	3767456	0.00364752	3.65E-03	1.09E-03	4.14E-04
820	457772.7	3767460	0.003587074	3.59E-03	1.07E-03	4.07E-04
821	457781.9	3767463	0.003527174	3.53E-03	1.06E-03	4.00E-04
822	457791.1	3767467	0.003467866	3.47E-03	1.04E-03	3.93E-04
823	457800.3	3767471	0.003409342	3.41E-03	1.02E-03	3.87E-04
824	457809.4	3767475	0.003351626	3.35E-03	1.00E-03	3.80E-04
825	457818.6	3767478	0.00329557	3.30E-03	9.87E-04	3.74E-04
826	457827.8	3767482	0.003240131	3.24E-03	9.70E-04	3.68E-04
827	457837	3767486	0.003185523	3.19E-03	9.54E-04	3.61E-04
828	457846.2	3767490	0.003131436	3.13E-03	9.38E-04	3.55E-04
829	457855.4	3767494	0.003078253	3.08E-03	9.22E-04	3.49E-04
830	457864.5	3767497	0.003025994	3.03E-03	9.06E-04	3.43E-04
831	457873.7	3767501	0.002974898	2.97E-03	8.91E-04	3.38E-04
832	457882.9	3767505	0.00292487	2.92E-03	8.76E-04	3.32E-04
833	457892.1	3767509	0.002876029	2.88E-03	8.61E-04	3.26E-04
834	457901.3	3767512	0.002828469	2.83E-03	8.47E-04	3.21E-04
835	457910.5	3767516	0.002782168	2.78E-03	8.33E-04	3.16E-04
836	457919.6	3767520	0.002736886	2.74E-03	8.20E-04	3.11E-04
837	457928.8	3767524	0.002692602	2.69E-03	8.06E-04	3.05E-04
838	457938	3767527	0.00264929	2.65E-03	7.94E-04	3.01E-04
839	457947.2	3767531	0.002607047	2.61E-03	7.81E-04	2.96E-04
840	457956.4	3767535	0.002566037	2.57E-03	7.69E-04	2.91E-04
841	457965.5	3767539	0.002526167	2.53E-03	7.57E-04	2.87E-04
842	457974.7	3767542	0.002487459	2.49E-03	7.45E-04	2.82E-04
843	457983.9	3767546	0.002449796	2.45E-03	7.34E-04	2.78E-04

844	457993.1	3767550	0.002413367	2.41E-03	7.23E-04	2.74E-04
845	458002.3	3767554	0.002378029	2.38E-03	7.12E-04	2.70E-04
846	458011.5	3767557	0.002343831	2.34E-03	7.02E-04	2.66E-04
847	458020.6	3767561	0.002310772	2.31E-03	6.92E-04	2.62E-04
848	458029.8	3767565	0.002278994	2.28E-03	6.83E-04	2.59E-04
849	458039	3767569	0.002248285	2.25E-03	6.73E-04	2.55E-04
850	458048.2	3767572	0.002218595	2.22E-03	6.65E-04	2.52E-04
851	458057.4	3767576	0.002189856	2.19E-03	6.56E-04	2.48E-04
852	457846.3	3767450	0.002944615	2.94E-03	8.82E-04	3.34E-04
853	457855.5	3767454	0.002897412	2.90E-03	8.68E-04	3.29E-04
854	457864.7	3767457	0.002850849	2.85E-03	8.54E-04	3.23E-04
855	457873.9	3767461	0.002804856	2.80E-03	8.40E-04	3.18E-04
856	457883.1	3767465	0.002759503	2.76E-03	8.27E-04	3.13E-04
857	457892.3	3767469	0.002715147	2.72E-03	8.13E-04	3.08E-04
858	457901.5	3767472	0.002671598	2.67E-03	8.00E-04	3.03E-04
859	457910.7	3767476	0.002629023	2.63E-03	7.87E-04	2.98E-04
860	457919.9	3767480	0.002587444	2.59E-03	7.75E-04	2.94E-04
861	457929.1	3767484	0.002546932	2.55E-03	7.63E-04	2.89E-04
862	457938.3	3767487	0.002507466	2.51E-03	7.51E-04	2.84E-04
863	457947.5	3767491	0.002468901	2.47E-03	7.39E-04	2.80E-04
864	457956.7	3767495	0.002431095	2.43E-03	7.28E-04	2.76E-04
865	457965.8	3767499	0.002394191	2.39E-03	7.17E-04	2.72E-04
866	457975	3767503	0.002358142	2.36E-03	7.06E-04	2.68E-04
867	457984.2	3767506	0.002323113	2.32E-03	6.96E-04	2.64E-04
868	457993.4	3767510	0.002288938	2.29E-03	6.86E-04	2.60E-04
869	458002.6	3767514	0.002255808	2.26E-03	6.76E-04	2.56E-04
870	458011.8	3767518	0.002223579	2.22E-03	6.66E-04	2.52E-04
871	458021	3767521	0.002192253	2.19E-03	6.57E-04	2.49E-04
872	458030.2	3767525	0.002162065	2.16E-03	6.48E-04	2.45E-04
873	458039.4	3767529	0.002132755	2.13E-03	6.39E-04	2.42E-04
874	458048.6	3767533	0.002104466	2.10E-03	6.30E-04	2.39E-04
875	458057.8	3767536	0.002076842	2.08E-03	6.22E-04	2.36E-04
876	458067	3767540	0.002050143	2.05E-03	6.14E-04	2.33E-04
877	458076.2	3767544	0.002024251	2.02E-03	6.06E-04	2.30E-04
878	458085.4	3767548	0.001999332	2.00E-03	5.99E-04	2.27E-04
879	458094.6	3767551	0.001975173	1.98E-03	5.92E-04	2.24E-04
880	458122.2	3767563	0.00190801	1.91E-03	5.71E-04	2.16E-04
881	458131.4	3767567	0.001887197	1.89E-03	5.65E-04	2.14E-04
882	458140.5	3767570	0.001867285	1.87E-03	5.59E-04	2.12E-04
883	457947.7	3767451	0.002342668	2.34E-03	7.02E-04	2.66E-04
884	457956.9	3767455	0.002307924	2.31E-03	6.91E-04	2.62E-04
885	457966.1	3767459	0.002273987	2.27E-03	6.81E-04	2.58E-04
886	457975.3	3767463	0.002240856	2.24E-03	6.71E-04	2.54E-04
887	457984.5	3767466	0.002208343	2.21E-03	6.61E-04	2.51E-04
888	457993.7	3767470	0.002176565	2.18E-03	6.52E-04	2.47E-04
889	458002.9	3767474	0.002145523	2.15E-03	6.43E-04	2.43E-04
890	458012.1	3767478	0.002115288	2.12E-03	6.34E-04	2.40E-04

891	458021.3	3767482	0.00208586	2.09E-03	6.25E-04	2.37E-04
892	458030.5	3767485	0.002057192	2.06E-03	6.16E-04	2.33E-04
893	458039.8	3767489	0.002029306	2.03E-03	6.08E-04	2.30E-04
894	458049	3767493	0.002002228	2.00E-03	6.00E-04	2.27E-04
895	458058.2	3767497	0.001975885	1.98E-03	5.92E-04	2.24E-04
896	458067.4	3767500	0.001950349	1.95E-03	5.84E-04	2.21E-04
897	458076.6	3767504	0.001925548	1.93E-03	5.77E-04	2.18E-04
898	458085.8	3767508	0.00190165	1.90E-03	5.70E-04	2.16E-04
899	458095	3767512	0.001878558	1.88E-03	5.63E-04	2.13E-04
900	458122.6	3767523	0.001813199	1.81E-03	5.43E-04	2.06E-04
901	458131.8	3767527	0.001792837	1.79E-03	5.37E-04	2.03E-04
902	458141	3767531	0.001773139	1.77E-03	5.31E-04	2.01E-04
903	458150.2	3767534	0.001754106	1.75E-03	5.25E-04	1.99E-04
904	458159.4	3767538	0.001735808	1.74E-03	5.20E-04	1.97E-04
905	458168.6	3767542	0.001718151	1.72E-03	5.15E-04	1.95E-04
906	458181.7	3767555	0.001710747	1.71E-03	5.12E-04	1.94E-04
907	458185.6	3767564	0.001720928	1.72E-03	5.15E-04	1.95E-04
908	458189.5	3767573	0.00173156	1.73E-03	5.19E-04	1.96E-04
909	457708.1	3767313	0.003250526	3.25E-03	9.74E-04	3.69E-04
910	457717.2	3767317	0.003207926	3.21E-03	9.61E-04	3.64E-04
911	457726.2	3767321	0.003165398	3.17E-03	9.48E-04	3.59E-04
912	457735.3	3767324	0.003122845	3.12E-03	9.35E-04	3.54E-04
913	457744.3	3767328	0.003080483	3.08E-03	9.23E-04	3.49E-04
914	457753.4	3767332	0.003038216	3.04E-03	9.10E-04	3.45E-04
915	457762.4	3767336	0.002996139	3.00E-03	8.97E-04	3.40E-04
916	457771.5	3767339	0.002954251	2.95E-03	8.85E-04	3.35E-04
917	458052.1	3767454	0.001902765	1.90E-03	5.70E-04	2.16E-04
918	458061.1	3767458	0.001878463	1.88E-03	5.63E-04	2.13E-04
919	458070.2	3767462	0.001854778	1.85E-03	5.56E-04	2.10E-04
920	458079.2	3767465	0.001831734	1.83E-03	5.49E-04	2.08E-04
921	458088.3	3767469	0.001809283	1.81E-03	5.42E-04	2.05E-04
922	458097.3	3767473	0.001787497	1.79E-03	5.35E-04	2.03E-04
923	458124.5	3767484	0.001726078	1.73E-03	5.17E-04	1.96E-04
924	458133.5	3767487	0.001706783	1.71E-03	5.11E-04	1.94E-04
925	458142.6	3767491	0.001688059	1.69E-03	5.06E-04	1.92E-04
926	458151.6	3767495	0.001669832	1.67E-03	5.00E-04	1.89E-04
927	458160.7	3767499	0.001652223	1.65E-03	4.95E-04	1.87E-04
928	458169.7	3767502	0.001635135	1.64E-03	4.90E-04	1.86E-04
929	458178.8	3767506	0.001618641	1.62E-03	4.85E-04	1.84E-04
930	458187.8	3767510	0.001602693	1.60E-03	4.80E-04	1.82E-04
931	458196.9	3767513	0.001587291	1.59E-03	4.75E-04	1.80E-04
932	458209.8	3767526	0.001580266	1.58E-03	4.73E-04	1.79E-04
933	458213.6	3767535	0.001588668	1.59E-03	4.76E-04	1.80E-04
934	458217.4	3767544	0.001597686	1.60E-03	4.79E-04	1.81E-04
935	458221.2	3767553	0.001607274	1.61E-03	4.81E-04	1.82E-04
936	458225.1	3767562	0.001617455	1.62E-03	4.84E-04	1.84E-04
937	458228.9	3767571	0.001628229	1.63E-03	4.88E-04	1.85E-04

938	457699.1	3767310	0.00329303	3.29E-03	9.86E-04	3.74E-04
939	457689.1	3767310	0.003362898	3.36E-03	1.01E-03	3.82E-04
940	457679.2	3767310	0.003433906	3.43E-03	1.03E-03	3.90E-04
941	457669.2	3767310	0.003506099	3.51E-03	1.05E-03	3.98E-04
942	457659.3	3767310	0.00357929	3.58E-03	1.07E-03	4.06E-04
943	457649.3	3767310	0.003653026	3.65E-03	1.09E-03	4.14E-04
944	457639.4	3767310	0.003727641	3.73E-03	1.12E-03	4.23E-04
945	457629.4	3767310	0.003803133	3.80E-03	1.14E-03	4.31E-04
946	457619.5	3767310	0.003879979	3.88E-03	1.16E-03	4.40E-04
947	457609.5	3767310	0.003957417	3.96E-03	1.19E-03	4.49E-04
948	457599.6	3767310	0.004035545	4.04E-03	1.21E-03	4.58E-04
949	457589.6	3767310	0.004114122	4.11E-03	1.23E-03	4.67E-04
950	457579.7	3767310	0.004193103	4.19E-03	1.26E-03	4.76E-04
951	457569.7	3767310	0.004272322	4.27E-03	1.28E-03	4.85E-04
952	457559.8	3767310	0.004351707	4.35E-03	1.30E-03	4.94E-04
953	457549.8	3767310	0.00443102	4.43E-03	1.33E-03	5.03E-04
954	457539.9	3767310	0.00451031	4.51E-03	1.35E-03	5.12E-04
955	457529.9	3767310	0.004589196	4.59E-03	1.37E-03	5.21E-04
956	457520	3767310	0.004667727	4.67E-03	1.40E-03	5.30E-04
957	457510	3767310	0.004745712	4.75E-03	1.42E-03	5.38E-04
958	457500.1	3767310	0.004822319	4.82E-03	1.44E-03	5.47E-04
959	457490.1	3767310	0.004898025	4.90E-03	1.47E-03	5.56E-04
960	457480.2	3767310	0.004972569	4.97E-03	1.49E-03	5.64E-04
961	457470.2	3767310	0.005046709	5.05E-03	1.51E-03	5.73E-04
962	457460.3	3767310	0.005119449	5.12E-03	1.53E-03	5.81E-04
963	457450.3	3767310	0.005190835	5.19E-03	1.55E-03	5.89E-04
964	457440.4	3767310	0.005260442	5.26E-03	1.58E-03	5.97E-04
965	457430.4	3767310	0.005328364	5.33E-03	1.60E-03	6.05E-04
966	457420.5	3767310	0.005394245	5.39E-03	1.62E-03	6.12E-04
967	457410.6	3767310	0.005458749	5.46E-03	1.63E-03	6.19E-04
968	457400.6	3767310	0.005521166	5.52E-03	1.65E-03	6.26E-04
969	457390.7	3767310	0.005581114	5.58E-03	1.67E-03	6.33E-04
970	457380.7	3767310	0.005638	5.64E-03	1.69E-03	6.40E-04
971	457370.8	3767310	0.005692039	5.69E-03	1.70E-03	6.46E-04
972	457360.8	3767310	0.005743419	5.74E-03	1.72E-03	6.52E-04
973	457350.9	3767310	0.005791834	5.79E-03	1.73E-03	6.57E-04
974	457340.9	3767310	0.005837423	5.84E-03	1.75E-03	6.62E-04
975	457331	3767310	0.00587988	5.88E-03	1.76E-03	6.67E-04
976	457708.1	3767273	0.003045739	3.05E-03	9.12E-04	3.46E-04
977	457717.1	3767277	0.003008195	3.01E-03	9.01E-04	3.41E-04
978	457726.2	3767281	0.002970152	2.97E-03	8.90E-04	3.37E-04
979	457735.3	3767284	0.002932037	2.93E-03	8.78E-04	3.33E-04
980	457744.3	3767288	0.002894113	2.89E-03	8.67E-04	3.28E-04
981	457753.4	3767292	0.002856165	2.86E-03	8.55E-04	3.24E-04
982	457762.5	3767296	0.002818383	2.82E-03	8.44E-04	3.20E-04
983	457771.6	3767299	0.002780791	2.78E-03	8.33E-04	3.15E-04
984	457780.6	3767303	0.002743436	2.74E-03	8.22E-04	3.11E-04

985	457789.7	3767307	0.002706271	2.71E-03	8.11E-04	3.07E-04
986	457798.8	3767310	0.002669462	2.67E-03	8.00E-04	3.03E-04
987	457807.8	3767314	0.002632844	2.63E-03	7.89E-04	2.99E-04
988	457816.9	3767318	0.002596652	2.60E-03	7.78E-04	2.95E-04
989	457826	3767322	0.002560697	2.56E-03	7.67E-04	2.91E-04
990	457835	3767325	0.002525194	2.53E-03	7.56E-04	2.86E-04
991	457844.1	3767329	0.002490497	2.49E-03	7.46E-04	2.83E-04
992	457853.2	3767333	0.002456322	2.46E-03	7.36E-04	2.79E-04
993	457862.2	3767336	0.002422361	2.42E-03	7.26E-04	2.75E-04
994	457871.3	3767340	0.002388685	2.39E-03	7.15E-04	2.71E-04
995	458143.4	3767452	0.001613207	1.61E-03	4.83E-04	1.83E-04
996	458152.4	3767455	0.001595692	1.60E-03	4.78E-04	1.81E-04
997	458161.5	3767459	0.001578605	1.58E-03	4.73E-04	1.79E-04
998	458170.6	3767463	0.001561992	1.56E-03	4.68E-04	1.77E-04
999	458179.6	3767466	0.001545831	1.55E-03	4.63E-04	1.75E-04
1000	458188.7	3767470	0.001530143	1.53E-03	4.58E-04	1.74E-04
1001	458197.8	3767474	0.001514979	1.51E-03	4.54E-04	1.72E-04
1002	458206.8	3767478	0.001500241	1.50E-03	4.49E-04	1.70E-04
1003	458215.9	3767481	0.001485978	1.49E-03	4.45E-04	1.69E-04
1004	458225	3767485	0.001472213	1.47E-03	4.41E-04	1.67E-04
1005	458237.9	3767498	0.001465663	1.47E-03	4.39E-04	1.66E-04
1006	458241.7	3767507	0.001472901	1.47E-03	4.41E-04	1.67E-04
1007	458245.5	3767516	0.001480662	1.48E-03	4.43E-04	1.68E-04
1008	458249.4	3767525	0.001488873	1.49E-03	4.46E-04	1.69E-04
1009	458253.2	3767534	0.001497583	1.50E-03	4.49E-04	1.70E-04
1010	458257	3767543	0.001506815	1.51E-03	4.51E-04	1.71E-04
1011	458260.9	3767552	0.001516569	1.52E-03	4.54E-04	1.72E-04
1012	458264.7	3767561	0.001526868	1.53E-03	4.57E-04	1.73E-04
1013	458268.5	3767570	0.001537785	1.54E-03	4.61E-04	1.74E-04
1014	457699	3767270	0.003083046	3.08E-03	9.23E-04	3.50E-04
1015	457689.1	3767270	0.003144845	3.14E-03	9.42E-04	3.57E-04
1016	457679.1	3767270	0.003208211	3.21E-03	9.61E-04	3.64E-04
1017	457669.2	3767270	0.003272739	3.27E-03	9.80E-04	3.71E-04
1018	457659.2	3767270	0.003338098	3.34E-03	1.00E-03	3.79E-04
1019	457649.3	3767270	0.003404288	3.40E-03	1.02E-03	3.86E-04
1020	457639.3	3767270	0.003471236	3.47E-03	1.04E-03	3.94E-04
1021	457629.4	3767270	0.003538969	3.54E-03	1.06E-03	4.02E-04
1022	457619.4	3767270	0.003607508	3.61E-03	1.08E-03	4.09E-04
1023	457609.5	3767270	0.003676593	3.68E-03	1.10E-03	4.17E-04
1024	457599.5	3767270	0.003746271	3.75E-03	1.12E-03	4.25E-04
1025	457589.6	3767270	0.003816233	3.82E-03	1.14E-03	4.33E-04
1026	457579.6	3767270	0.003886695	3.89E-03	1.16E-03	4.41E-04
1027	457569.7	3767270	0.003957322	3.96E-03	1.19E-03	4.49E-04
1028	457559.7	3767270	0.004028163	4.03E-03	1.21E-03	4.57E-04
1029	457549.8	3767270	0.004098957	4.10E-03	1.23E-03	4.65E-04
1030	457539.8	3767270	0.004169774	4.17E-03	1.25E-03	4.73E-04
1031	457529.9	3767270	0.004240331	4.24E-03	1.27E-03	4.81E-04

1032	457519.9	3767270	0.004310626	4.31E-03	1.29E-03	4.89E-04
1033	457510	3767270	0.004380518	4.38E-03	1.31E-03	4.97E-04
1034	457500	3767270	0.004449745	4.45E-03	1.33E-03	5.05E-04
1035	457490.1	3767270	0.004518308	4.52E-03	1.35E-03	5.13E-04
1036	457480.1	3767270	0.00458604	4.59E-03	1.37E-03	5.20E-04
1037	457470.2	3767270	0.004651684	4.65E-03	1.39E-03	5.28E-04
1038	457460.2	3767270	0.004716046	4.72E-03	1.41E-03	5.35E-04
1039	457450.3	3767270	0.004779197	4.78E-03	1.43E-03	5.42E-04
1040	457440.3	3767270	0.00484356	4.84E-03	1.45E-03	5.50E-04
1041	457430.4	3767270	0.004906711	4.91E-03	1.47E-03	5.57E-04
1042	457420.4	3767270	0.004968273	4.97E-03	1.49E-03	5.64E-04
1043	457410.5	3767270	0.005026774	5.03E-03	1.51E-03	5.70E-04
1044	457400.5	3767270	0.005083375	5.08E-03	1.52E-03	5.77E-04
1045	457390.6	3767270	0.005137959	5.14E-03	1.54E-03	5.83E-04
1046	457380.6	3767270	0.005190574	5.19E-03	1.55E-03	5.89E-04
1047	457370.7	3767270	0.005240934	5.24E-03	1.57E-03	5.95E-04
1048	457360.7	3767270	0.00528904	5.29E-03	1.58E-03	6.00E-04
1049	457350.8	3767270	0.005334725	5.33E-03	1.60E-03	6.05E-04
1050	457340.8	3767270	0.005377988	5.38E-03	1.61E-03	6.10E-04
1051	457330.9	3767270	0.005418714	5.42E-03	1.62E-03	6.15E-04
1052	457708	3767233	0.002859915	2.86E-03	8.57E-04	3.24E-04
1053	457717.1	3767237	0.002825717	2.83E-03	8.46E-04	3.21E-04
1054	457726.2	3767241	0.002791779	2.79E-03	8.36E-04	3.17E-04
1055	457735.3	3767244	0.002757723	2.76E-03	8.26E-04	3.13E-04
1056	457744.4	3767248	0.002723881	2.72E-03	8.16E-04	3.09E-04
1057	457753.4	3767252	0.00269011	2.69E-03	8.06E-04	3.05E-04
1058	457762.5	3767256	0.002656528	2.66E-03	7.96E-04	3.01E-04
1059	457771.6	3767259	0.002622923	2.62E-03	7.86E-04	2.98E-04
1060	457780.7	3767263	0.002589366	2.59E-03	7.76E-04	2.94E-04
1061	457789.8	3767267	0.002555809	2.56E-03	7.66E-04	2.90E-04
1062	457798.9	3767271	0.002522535	2.52E-03	7.56E-04	2.86E-04
1063	457807.9	3767274	0.0024895	2.49E-03	7.46E-04	2.82E-04
1064	457817	3767278	0.002456678	2.46E-03	7.36E-04	2.79E-04
1065	457826.1	3767282	0.002424212	2.42E-03	7.26E-04	2.75E-04
1066	457835.2	3767285	0.002391984	2.39E-03	7.16E-04	2.71E-04
1067	457844.3	3767289	0.002360111	2.36E-03	7.07E-04	2.68E-04
1068	457853.4	3767293	0.002328571	2.33E-03	6.97E-04	2.64E-04
1069	457862.5	3767297	0.002297339	2.30E-03	6.88E-04	2.61E-04
1070	457871.5	3767300	0.002266772	2.27E-03	6.79E-04	2.57E-04
1071	457880.6	3767304	0.002236822	2.24E-03	6.70E-04	2.54E-04
1072	457889.7	3767308	0.002207061	2.21E-03	6.61E-04	2.50E-04
1073	457898.8	3767311	0.00217761	2.18E-03	6.52E-04	2.47E-04
1074	457907.9	3767315	0.002148348	2.15E-03	6.43E-04	2.44E-04
1075	457917	3767319	0.002119442	2.12E-03	6.35E-04	2.40E-04
1076	457926	3767323	0.002090987	2.09E-03	6.26E-04	2.37E-04
1077	457935.1	3767326	0.002062959	2.06E-03	6.18E-04	2.34E-04
1078	457944.2	3767330	0.002035429	2.04E-03	6.10E-04	2.31E-04

1079	457953.3	3767334	0.002008422	2.01E-03	6.02E-04	2.28E-04
1080	457962.4	3767337	0.001981936	1.98E-03	5.94E-04	2.25E-04
1081	458244	3767453	0.001382528	1.38E-03	4.14E-04	1.57E-04
1082	458253	3767456	0.001369974	1.37E-03	4.10E-04	1.55E-04
1083	458266	3767469	0.001363922	1.36E-03	4.09E-04	1.55E-04
1084	458269.8	3767478	0.001370306	1.37E-03	4.10E-04	1.55E-04
1085	458273.6	3767487	0.00137707	1.38E-03	4.12E-04	1.56E-04
1086	458277.5	3767496	0.001384166	1.38E-03	4.15E-04	1.57E-04
1087	458281.3	3767505	0.001391689	1.39E-03	4.17E-04	1.58E-04
1088	458285.2	3767514	0.001399616	1.40E-03	4.19E-04	1.59E-04
1089	458289	3767523	0.001407969	1.41E-03	4.22E-04	1.60E-04
1090	458292.8	3767532	0.001416845	1.42E-03	4.24E-04	1.61E-04
1091	458296.7	3767541	0.001426172	1.43E-03	4.27E-04	1.62E-04
1092	458300.5	3767551	0.001435997	1.44E-03	4.30E-04	1.63E-04
1093	458304.4	3767560	0.001446321	1.45E-03	4.33E-04	1.64E-04
1094	458308.2	3767569	0.00145719	1.46E-03	4.36E-04	1.65E-04
1095	457698.9	3767230	0.00289416	2.89E-03	8.67E-04	3.28E-04
1096	457689	3767230	0.002950383	2.95E-03	8.84E-04	3.35E-04
1097	457679	3767230	0.003007198	3.01E-03	9.01E-04	3.41E-04
1098	457669.1	3767230	0.003064915	3.06E-03	9.18E-04	3.48E-04
1099	457659.2	3767230	0.003123367	3.12E-03	9.35E-04	3.54E-04
1100	457649.2	3767230	0.003182817	3.18E-03	9.53E-04	3.61E-04
1101	457639.3	3767230	0.003242955	3.24E-03	9.71E-04	3.68E-04
1102	457629.3	3767230	0.003303757	3.30E-03	9.90E-04	3.75E-04
1103	457619.4	3767230	0.003365176	3.37E-03	1.01E-03	3.82E-04
1104	457609.4	3767230	0.00342707	3.43E-03	1.03E-03	3.89E-04
1105	457599.5	3767230	0.003489487	3.49E-03	1.05E-03	3.96E-04
1106	457589.5	3767230	0.003552258	3.55E-03	1.06E-03	4.03E-04
1107	457579.6	3767230	0.003615363	3.62E-03	1.08E-03	4.10E-04
1108	457569.6	3767230	0.003678634	3.68E-03	1.10E-03	4.17E-04
1109	457559.7	3767230	0.003741239	3.74E-03	1.12E-03	4.24E-04
1110	457549.7	3767230	0.003803798	3.80E-03	1.14E-03	4.32E-04
1111	457539.8	3767230	0.003866333	3.87E-03	1.16E-03	4.39E-04
1112	457529.8	3767230	0.003929627	3.93E-03	1.18E-03	4.46E-04
1113	457519.9	3767230	0.003992779	3.99E-03	1.20E-03	4.53E-04
1114	457509.9	3767230	0.004055574	4.06E-03	1.21E-03	4.60E-04
1115	457500	3767230	0.004117872	4.12E-03	1.23E-03	4.67E-04
1116	457490	3767230	0.004179718	4.18E-03	1.25E-03	4.74E-04
1117	457480.1	3767230	0.004240829	4.24E-03	1.27E-03	4.81E-04
1118	457470.1	3767230	0.004300896	4.30E-03	1.29E-03	4.88E-04
1119	457460.2	3767230	0.004360061	4.36E-03	1.31E-03	4.95E-04
1120	457450.2	3767230	0.004418347	4.42E-03	1.32E-03	5.01E-04
1121	457440.3	3767230	0.004475993	4.48E-03	1.34E-03	5.08E-04
1122	457430.3	3767230	0.004532642	4.53E-03	1.36E-03	5.14E-04
1123	457420.4	3767230	0.004587939	4.59E-03	1.37E-03	5.21E-04
1124	457410.4	3767230	0.004641503	4.64E-03	1.39E-03	5.27E-04
1125	457400.5	3767230	0.004693548	4.69E-03	1.41E-03	5.33E-04

1126	457390.5	3767230	0.004743908	4.74E-03	1.42E-03	5.38E-04
1127	457380.6	3767230	0.004792583	4.79E-03	1.44E-03	5.44E-04
1128	457370.6	3767230	0.004839431	4.84E-03	1.45E-03	5.49E-04
1129	457360.7	3767230	0.004884427	4.88E-03	1.46E-03	5.54E-04
1130	457350.7	3767230	0.004927335	4.93E-03	1.48E-03	5.59E-04
1131	457340.8	3767230	0.004968273	4.97E-03	1.49E-03	5.64E-04
1132	457330.8	3767230	0.005007052	5.01E-03	1.50E-03	5.68E-04
1133	457277.8	3767568	0.01091586	1.09E-02	3.27E-03	1.24E-03
1134	457286.5	3767565	0.0108299	1.08E-02	3.24E-03	1.23E-03
1135	457180.9	3767569	0.01020992	1.02E-02	3.06E-03	1.16E-03
1136	457189.7	3767565	0.0102229	1.02E-02	3.06E-03	1.16E-03
1137	457198.5	3767562	0.01022691	1.02E-02	3.06E-03	1.16E-03
1138	457207.2	3767558	0.01022141	1.02E-02	3.06E-03	1.16E-03
1139	457216	3767554	0.01020672	1.02E-02	3.06E-03	1.16E-03
1140	457224.8	3767551	0.01018315	1.02E-02	3.05E-03	1.16E-03
1141	457233.6	3767547	0.01015016	1.02E-02	3.04E-03	1.15E-03
1142	457242.3	3767543	0.01010955	1.01E-02	3.03E-03	1.15E-03
1143	457251.1	3767540	0.01006299	1.01E-02	3.01E-03	1.14E-03
1144	457259.9	3767536	0.01000755	1.00E-02	3.00E-03	1.14E-03
1145	457268.7	3767532	0.009943357	9.94E-03	2.98E-03	1.13E-03
1146	457277.4	3767529	0.009867984	9.87E-03	2.96E-03	1.12E-03
1147	457286.2	3767525	0.009784684	9.78E-03	2.93E-03	1.11E-03
1148	457091.9	3767566	0.008960601	8.96E-03	2.68E-03	1.02E-03
1149	457100.7	3767562	0.009035856	9.04E-03	2.71E-03	1.03E-03
1150	457109.6	3767559	0.009104894	9.10E-03	2.73E-03	1.03E-03
1151	457118.4	3767555	0.009166787	9.17E-03	2.75E-03	1.04E-03
1152	457127.2	3767551	0.009221705	9.22E-03	2.76E-03	1.05E-03
1153	457136	3767548	0.009269596	9.27E-03	2.78E-03	1.05E-03
1154	457144.8	3767544	0.009309799	9.31E-03	2.79E-03	1.06E-03
1155	457153.7	3767540	0.009340912	9.34E-03	2.80E-03	1.06E-03
1156	457162.5	3767537	0.009362389	9.36E-03	2.80E-03	1.06E-03
1157	457171.3	3767533	0.009376202	9.38E-03	2.81E-03	1.06E-03
1158	457180.1	3767529	0.009382159	9.38E-03	2.81E-03	1.06E-03
1159	457189	3767525	0.009380141	9.38E-03	2.81E-03	1.06E-03
1160	457197.8	3767522	0.009370458	9.37E-03	2.81E-03	1.06E-03
1161	457206.6	3767518	0.009352754	9.35E-03	2.80E-03	1.06E-03
1162	457215.4	3767514	0.009327527	9.33E-03	2.79E-03	1.06E-03
1163	457224.2	3767511	0.00929435	9.29E-03	2.78E-03	1.05E-03
1164	457233.1	3767507	0.009253814	9.25E-03	2.77E-03	1.05E-03
1165	457241.9	3767503	0.009207631	9.21E-03	2.76E-03	1.04E-03
1166	457250.7	3767500	0.009156203	9.16E-03	2.74E-03	1.04E-03
1167	457259.5	3767496	0.009096516	9.10E-03	2.72E-03	1.03E-03
1168	457268.3	3767492	0.009029164	9.03E-03	2.70E-03	1.02E-03
1169	457277.2	3767489	0.008953623	8.95E-03	2.68E-03	1.02E-03
1170	457286	3767485	0.00887132	8.87E-03	2.66E-03	1.01E-03
1171	456993.4	3767567	0.00746691	7.47E-03	2.24E-03	8.47E-04
1172	457002.2	3767563	0.007565708	7.57E-03	2.27E-03	8.58E-04

1173	457011.1	3767560	0.007661919	7.66E-03	2.29E-03	8.69E-04
1174	457020	3767556	0.007755994	7.76E-03	2.32E-03	8.80E-04
1175	457028.8	3767552	0.007847387	7.85E-03	2.35E-03	8.90E-04
1176	457037.7	3767549	0.007937499	7.94E-03	2.38E-03	9.01E-04
1177	457046.5	3767545	0.008023553	8.02E-03	2.40E-03	9.10E-04
1178	457055.4	3767541	0.008105145	8.11E-03	2.43E-03	9.20E-04
1179	457064.3	3767538	0.008182108	8.18E-03	2.45E-03	9.28E-04
1180	457073.1	3767534	0.008254445	8.25E-03	2.47E-03	9.37E-04
1181	457082	3767530	0.008322486	8.32E-03	2.49E-03	9.44E-04
1182	457090.8	3767526	0.008385399	8.39E-03	2.51E-03	9.51E-04
1183	457099.7	3767523	0.008440459	8.44E-03	2.53E-03	9.58E-04
1184	457108.6	3767519	0.008488588	8.49E-03	2.54E-03	9.63E-04
1185	457117.4	3767515	0.008529954	8.53E-03	2.55E-03	9.68E-04
1186	457126.3	3767512	0.008566169	8.57E-03	2.57E-03	9.72E-04
1187	457135.1	3767508	0.008596452	8.60E-03	2.57E-03	9.75E-04
1188	457144	3767504	0.008620397	8.62E-03	2.58E-03	9.78E-04
1189	457152.9	3767501	0.008636204	8.64E-03	2.59E-03	9.80E-04
1190	457161.7	3767497	0.008643584	8.64E-03	2.59E-03	9.81E-04
1191	457170.6	3767493	0.008644248	8.64E-03	2.59E-03	9.81E-04
1192	457179.4	3767489	0.008638031	8.64E-03	2.59E-03	9.80E-04
1193	457188.3	3767486	0.008625216	8.63E-03	2.58E-03	9.79E-04
1194	457197.2	3767482	0.008605755	8.61E-03	2.58E-03	9.76E-04
1195	457206	3767478	0.008579649	8.58E-03	2.57E-03	9.73E-04
1196	457214.9	3767475	0.008549248	8.55E-03	2.56E-03	9.70E-04
1197	457223.7	3767471	0.008513246	8.51E-03	2.55E-03	9.66E-04
1198	457232.6	3767467	0.008470195	8.47E-03	2.54E-03	9.61E-04
1199	457241.5	3767464	0.00841993	8.42E-03	2.52E-03	9.55E-04
1200	457250.3	3767460	0.008362261	8.36E-03	2.50E-03	9.49E-04
1201	456902.4	3767565	0.006160468	6.16E-03	1.85E-03	6.99E-04
1202	456911.1	3767562	0.006259195	6.26E-03	1.87E-03	7.10E-04
1203	456919.8	3767558	0.006356972	6.36E-03	1.90E-03	7.21E-04
1204	456928.6	3767554	0.006453752	6.45E-03	1.93E-03	7.32E-04
1205	456937.3	3767551	0.006549489	6.55E-03	1.96E-03	7.43E-04
1206	456946	3767547	0.006644608	6.64E-03	1.99E-03	7.54E-04
1207	456954.7	3767543	0.006737639	6.74E-03	2.02E-03	7.64E-04
1208	456963.5	3767540	0.006828249	6.83E-03	2.05E-03	7.75E-04
1209	456972.2	3767536	0.006915797	6.92E-03	2.07E-03	7.85E-04
1210	456980.9	3767532	0.007002397	7.00E-03	2.10E-03	7.94E-04
1211	456989.6	3767529	0.007086291	7.09E-03	2.12E-03	8.04E-04
1212	456998.4	3767525	0.007167527	7.17E-03	2.15E-03	8.13E-04
1213	457007.1	3767521	0.007249118	7.25E-03	2.17E-03	8.22E-04
1214	457015.8	3767518	0.007328053	7.33E-03	2.19E-03	8.31E-04
1215	457024.5	3767514	0.007403545	7.40E-03	2.22E-03	8.40E-04
1216	457033.3	3767510	0.00747562	7.48E-03	2.24E-03	8.48E-04
1217	457042	3767507	0.007543614	7.54E-03	2.26E-03	8.56E-04
1218	457050.7	3767503	0.007609162	7.61E-03	2.28E-03	8.63E-04
1219	457059.4	3767500	0.007670273	7.67E-03	2.30E-03	8.70E-04

1220	457068.1	3767496	0.007729081	7.73E-03	2.31E-03	8.77E-04
1221	457076.9	3767492	0.007782266	7.78E-03	2.33E-03	8.83E-04
1222	457085.6	3767489	0.007829707	7.83E-03	2.35E-03	8.88E-04
1223	457094.3	3767485	0.00787036	7.87E-03	2.36E-03	8.93E-04
1224	457103	3767481	0.007905722	7.91E-03	2.37E-03	8.97E-04
1225	457111.8	3767478	0.007936336	7.94E-03	2.38E-03	9.00E-04
1226	457120.5	3767474	0.007961279	7.96E-03	2.38E-03	9.03E-04
1227	457129.2	3767470	0.007978034	7.98E-03	2.39E-03	9.05E-04
1228	457137.9	3767467	0.007989497	7.99E-03	2.39E-03	9.06E-04
1229	457146.7	3767463	0.007995334	8.00E-03	2.39E-03	9.07E-04
1230	457155.4	3767459	0.007995668	8.00E-03	2.39E-03	9.07E-04
1231	457164.1	3767456	0.007990328	7.99E-03	2.39E-03	9.07E-04
1232	457172.8	3767452	0.007979601	7.98E-03	2.39E-03	9.05E-04
1233	457181.6	3767449	0.007963652	7.96E-03	2.39E-03	9.04E-04
1234	457190.3	3767445	0.007944239	7.94E-03	2.38E-03	9.01E-04
1235	457199	3767441	0.007918443	7.92E-03	2.37E-03	8.98E-04
1236	456835.5	3767560	0.005324472	5.32E-03	1.59E-03	6.04E-04
1237	456847.9	3767548	0.005432668	5.43E-03	1.63E-03	6.16E-04
1238	456856.6	3767544	0.005522091	5.52E-03	1.65E-03	6.27E-04
1239	456865.4	3767541	0.005610969	5.61E-03	1.68E-03	6.37E-04
1240	456874.1	3767537	0.005699657	5.70E-03	1.71E-03	6.47E-04
1241	456882.9	3767533	0.00578685	5.79E-03	1.73E-03	6.57E-04
1242	456891.7	3767530	0.005873924	5.87E-03	1.76E-03	6.66E-04
1243	456900.4	3767526	0.005960903	5.96E-03	1.79E-03	6.76E-04
1244	456909.2	3767522	0.00604762	6.05E-03	1.81E-03	6.86E-04
1245	456918	3767519	0.006132345	6.13E-03	1.84E-03	6.96E-04
1246	456926.7	3767515	0.006215812	6.22E-03	1.86E-03	7.05E-04
1247	456935.5	3767511	0.006297641	6.30E-03	1.89E-03	7.14E-04
1248	456944.2	3767508	0.00637788	6.38E-03	1.91E-03	7.24E-04
1249	456953	3767504	0.006455936	6.46E-03	1.93E-03	7.32E-04
1250	456961.8	3767500	0.006532236	6.53E-03	1.96E-03	7.41E-04
1251	456970.5	3767497	0.006607039	6.61E-03	1.98E-03	7.50E-04
1252	456979.3	3767493	0.006680444	6.68E-03	2.00E-03	7.58E-04
1253	456988.1	3767489	0.00675195	6.75E-03	2.02E-03	7.66E-04
1254	456996.8	3767486	0.006821627	6.82E-03	2.04E-03	7.74E-04
1255	457005.6	3767482	0.006889526	6.89E-03	2.06E-03	7.82E-04
1256	457014.4	3767478	0.006954624	6.95E-03	2.08E-03	7.89E-04
1257	457023.1	3767475	0.007015545	7.02E-03	2.10E-03	7.96E-04
1258	457031.9	3767471	0.007072692	7.07E-03	2.12E-03	8.02E-04
1259	457040.6	3767467	0.007126683	7.13E-03	2.13E-03	8.09E-04
1260	457049.4	3767464	0.007177589	7.18E-03	2.15E-03	8.14E-04
1261	457058.2	3767460	0.007225078	7.23E-03	2.16E-03	8.20E-04
1262	457066.9	3767456	0.007266016	7.27E-03	2.18E-03	8.24E-04
1263	457075.7	3767453	0.007301448	7.30E-03	2.19E-03	8.28E-04
1264	457084.5	3767449	0.007332087	7.33E-03	2.20E-03	8.32E-04
1265	457093.2	3767445	0.007358454	7.36E-03	2.20E-03	8.35E-04
1266	457102	3767442	0.007381711	7.38E-03	2.21E-03	8.37E-04

1267	456796.3	3767559	0.004893255	4.89E-03	1.47E-03	5.55E-04
1268	456799.9	3767550	0.004913238	4.91E-03	1.47E-03	5.57E-04
1269	456803.5	3767541	0.004931441	4.93E-03	1.48E-03	5.59E-04
1270	456807.1	3767532	0.004948718	4.95E-03	1.48E-03	5.61E-04
1271	456819.5	3767520	0.005045166	5.05E-03	1.51E-03	5.72E-04
1272	456828.3	3767516	0.005125524	5.13E-03	1.54E-03	5.82E-04
1273	456837.1	3767512	0.005205241	5.21E-03	1.56E-03	5.91E-04
1274	456845.9	3767509	0.005284056	5.28E-03	1.58E-03	6.00E-04
1275	456854.7	3767505	0.00536242	5.36E-03	1.61E-03	6.08E-04
1276	456863.5	3767501	0.005440808	5.44E-03	1.63E-03	6.17E-04
1277	456872.3	3767498	0.005518603	5.52E-03	1.65E-03	6.26E-04
1278	456881.1	3767494	0.005595922	5.60E-03	1.68E-03	6.35E-04
1279	456889.9	3767490	0.005673314	5.67E-03	1.70E-03	6.44E-04
1280	456898.7	3767487	0.00574902	5.75E-03	1.72E-03	6.52E-04
1281	456907.5	3767483	0.005822946	5.82E-03	1.74E-03	6.61E-04
1282	456916.3	3767479	0.005894476	5.89E-03	1.77E-03	6.69E-04
1283	456925.1	3767476	0.00596451	5.96E-03	1.79E-03	6.77E-04
1284	456933.9	3767472	0.006034022	6.03E-03	1.81E-03	6.85E-04
1285	456942.7	3767468	0.006102775	6.10E-03	1.83E-03	6.92E-04
1286	456951.5	3767465	0.006171646	6.17E-03	1.85E-03	7.00E-04
1287	456960.3	3767461	0.006238453	6.24E-03	1.87E-03	7.08E-04
1288	456969.1	3767457	0.006302862	6.30E-03	1.89E-03	7.15E-04
1289	456977.9	3767454	0.006365112	6.37E-03	1.91E-03	7.22E-04
1290	456986.7	3767450	0.006424538	6.42E-03	1.92E-03	7.29E-04
1291	456995.5	3767446	0.006481377	6.48E-03	1.94E-03	7.35E-04
1292	457004.2	3767443	0.006536317	6.54E-03	1.96E-03	7.42E-04
1293	457013	3767439	0.006588338	6.59E-03	1.97E-03	7.47E-04
1294	457268.2	3767332	0.006346197	6.35E-03	1.90E-03	7.20E-04
1295	457277	3767329	0.006280293	6.28E-03	1.88E-03	7.13E-04
1296	456753.4	3767566	0.004470368	4.47E-03	1.34E-03	5.07E-04
1297	456757	3767557	0.004496569	4.50E-03	1.35E-03	5.10E-04
1298	456760.6	3767548	0.004521179	4.52E-03	1.35E-03	5.13E-04
1299	456764.2	3767540	0.004544318	4.54E-03	1.36E-03	5.16E-04
1300	456767.8	3767531	0.004565678	4.57E-03	1.37E-03	5.18E-04
1301	456771.4	3767522	0.004585565	4.59E-03	1.37E-03	5.20E-04
1302	456775	3767513	0.004603887	4.60E-03	1.38E-03	5.22E-04
1303	456778.7	3767504	0.004620381	4.62E-03	1.38E-03	5.24E-04
1304	456791.1	3767492	0.004707217	4.71E-03	1.41E-03	5.34E-04
1305	456799.9	3767488	0.004778937	4.78E-03	1.43E-03	5.42E-04
1306	456808.8	3767484	0.00485049	4.85E-03	1.45E-03	5.50E-04
1307	456817.6	3767481	0.004921829	4.92E-03	1.47E-03	5.58E-04
1308	456826.4	3767477	0.004992908	4.99E-03	1.50E-03	5.66E-04
1309	456835.2	3767473	0.005063583	5.06E-03	1.52E-03	5.74E-04
1310	456844.1	3767469	0.005133759	5.13E-03	1.54E-03	5.82E-04
1311	456852.9	3767466	0.005203342	5.20E-03	1.56E-03	5.90E-04
1312	456861.7	3767462	0.005272213	5.27E-03	1.58E-03	5.98E-04
1313	456870.6	3767458	0.005340254	5.34E-03	1.60E-03	6.06E-04

1314	456879.4	3767455	0.005407322	5.41E-03	1.62E-03	6.13E-04
1315	456888.2	3767451	0.005473416	5.47E-03	1.64E-03	6.21E-04
1316	456897.1	3767447	0.005538206	5.54E-03	1.66E-03	6.28E-04
1317	456905.9	3767444	0.005601643	5.60E-03	1.68E-03	6.36E-04
1318	456914.7	3767440	0.005663631	5.66E-03	1.70E-03	6.43E-04
1319	457170.8	3767333	0.006352368	6.35E-03	1.90E-03	7.21E-04
1320	457179.7	3767329	0.006324648	6.32E-03	1.89E-03	7.18E-04
1321	457188.5	3767326	0.006291969	6.29E-03	1.88E-03	7.14E-04
1322	457197.3	3767322	0.006255801	6.26E-03	1.87E-03	7.10E-04
1323	457206.1	3767318	0.006216761	6.22E-03	1.86E-03	7.05E-04
1324	457215	3767314	0.006174447	6.17E-03	1.85E-03	7.01E-04
1325	457223.8	3767311	0.00612888	6.13E-03	1.84E-03	6.95E-04
1326	457232.6	3767307	0.006080301	6.08E-03	1.82E-03	6.90E-04
1327	457241.5	3767303	0.006028848	6.03E-03	1.81E-03	6.84E-04
1328	457250.3	3767300	0.005974572	5.97E-03	1.79E-03	6.78E-04
1329	457259.1	3767296	0.005917686	5.92E-03	1.77E-03	6.71E-04
1330	457268	3767292	0.005858284	5.86E-03	1.75E-03	6.65E-04
1331	457276.8	3767289	0.005796461	5.80E-03	1.74E-03	6.58E-04
1332	456714	3767565	0.004114265	4.11E-03	1.23E-03	4.67E-04
1333	456717.6	3767556	0.004141485	4.14E-03	1.24E-03	4.70E-04
1334	456721.3	3767547	0.004167401	4.17E-03	1.25E-03	4.73E-04
1335	456724.9	3767538	0.004192012	4.19E-03	1.26E-03	4.76E-04
1336	456728.5	3767529	0.004213845	4.21E-03	1.26E-03	4.78E-04
1337	456732.1	3767520	0.004234208	4.23E-03	1.27E-03	4.80E-04
1338	456735.7	3767512	0.004253597	4.25E-03	1.27E-03	4.83E-04
1339	456739.4	3767503	0.004272464	4.27E-03	1.28E-03	4.85E-04
1340	456743	3767494	0.004290074	4.29E-03	1.28E-03	4.87E-04
1341	456746.6	3767485	0.004305856	4.31E-03	1.29E-03	4.89E-04
1342	456750.2	3767476	0.004319858	4.32E-03	1.29E-03	4.90E-04
1343	456762.7	3767463	0.00439846	4.40E-03	1.32E-03	4.99E-04
1344	456771.6	3767460	0.004463842	4.46E-03	1.34E-03	5.06E-04
1345	456780.4	3767456	0.004528631	4.53E-03	1.36E-03	5.14E-04
1346	456789.3	3767452	0.004592851	4.59E-03	1.38E-03	5.21E-04
1347	456798.1	3767449	0.004658021	4.66E-03	1.40E-03	5.28E-04
1348	456807	3767445	0.004723403	4.72E-03	1.41E-03	5.36E-04
1349	456815.9	3767441	0.004788216	4.79E-03	1.43E-03	5.43E-04
1350	456824.7	3767438	0.004851487	4.85E-03	1.45E-03	5.50E-04
1351	457081.7	3767330	0.006027401	6.03E-03	1.81E-03	6.84E-04
1352	457090.5	3767326	0.00602835	6.03E-03	1.81E-03	6.84E-04
1353	457099.4	3767323	0.00603115	6.03E-03	1.81E-03	6.84E-04
1354	457108.2	3767319	0.006029916	6.03E-03	1.81E-03	6.84E-04
1355	457117.1	3767315	0.006024695	6.02E-03	1.80E-03	6.84E-04
1356	457126	3767312	0.006013636	6.01E-03	1.80E-03	6.82E-04
1357	457134.8	3767308	0.005998447	6.00E-03	1.80E-03	6.81E-04
1358	457143.7	3767304	0.005980149	5.98E-03	1.79E-03	6.78E-04
1359	457152.5	3767301	0.005958719	5.96E-03	1.78E-03	6.76E-04
1360	457161.4	3767297	0.005934085	5.93E-03	1.78E-03	6.73E-04

1361	457170.3	3767293	0.005906318	5.91E-03	1.77E-03	6.70E-04
1362	457179.1	3767289	0.00587549	5.88E-03	1.76E-03	6.67E-04
1363	457188	3767286	0.00584338	5.84E-03	1.75E-03	6.63E-04
1364	457196.8	3767282	0.005808422	5.81E-03	1.74E-03	6.59E-04
1365	457205.7	3767278	0.005770498	5.77E-03	1.73E-03	6.55E-04
1366	457214.6	3767275	0.00572899	5.73E-03	1.72E-03	6.50E-04
1367	457223.4	3767271	0.005684041	5.68E-03	1.70E-03	6.45E-04
1368	457232.3	3767267	0.005636719	5.64E-03	1.69E-03	6.40E-04
1369	457241.1	3767264	0.005586477	5.59E-03	1.67E-03	6.34E-04
1370	457250	3767260	0.005533721	5.53E-03	1.66E-03	6.28E-04
1371	457258.9	3767256	0.005478827	5.48E-03	1.64E-03	6.22E-04
1372	457267.7	3767252	0.005421703	5.42E-03	1.62E-03	6.15E-04
1373	457276.6	3767249	0.005362705	5.36E-03	1.61E-03	6.08E-04
1374	456713.9	3767325	0.003771213	3.77E-03	1.13E-03	4.28E-04
1375	456743.9	3767325	0.003946572	3.95E-03	1.18E-03	4.48E-04
1376	456773.9	3767325	0.004130284	4.13E-03	1.24E-03	4.69E-04
1377	456803.9	3767325	0.004321851	4.32E-03	1.29E-03	4.90E-04
1378	456833.9	3767325	0.004517335	4.52E-03	1.35E-03	5.13E-04
1379	456863.9	3767325	0.004715025	4.72E-03	1.41E-03	5.35E-04
1380	456893.9	3767325	0.004910746	4.91E-03	1.47E-03	5.57E-04
1381	456923.9	3767325	0.005104639	5.10E-03	1.53E-03	5.79E-04
1382	456953.9	3767325	0.005294546	5.29E-03	1.59E-03	6.01E-04
1383	456983.9	3767325	0.005474556	5.47E-03	1.64E-03	6.21E-04
1384	457013.9	3767325	0.005644384	5.64E-03	1.69E-03	6.40E-04
1385	457043.9	3767325	0.005800828	5.80E-03	1.74E-03	6.58E-04
1386	457073.9	3767325	0.005940611	5.94E-03	1.78E-03	6.74E-04
1387	457103.9	3767325	0.006066796	6.07E-03	1.82E-03	6.88E-04
1388	457133.9	3767325	0.006169581	6.17E-03	1.85E-03	7.00E-04
1389	457163.9	3767325	0.006241823	6.24E-03	1.87E-03	7.08E-04
1390	457193.9	3767325	0.006284968	6.28E-03	1.88E-03	7.13E-04
1391	457223.9	3767325	0.00629382	6.29E-03	1.89E-03	7.14E-04
1392	457253.9	3767325	0.006269708	6.27E-03	1.88E-03	7.11E-04
1393	457283.9	3767325	0.006212276	6.21E-03	1.86E-03	7.05E-04
1394	457313.9	3767325	0.006124584	6.12E-03	1.83E-03	6.95E-04
1395	457343.9	3767325	0.006005306	6.01E-03	1.80E-03	6.81E-04
1396	457373.9	3767325	0.005854012	5.85E-03	1.75E-03	6.64E-04
1397	457403.9	3767325	0.005674002	5.67E-03	1.70E-03	6.44E-04
1398	457433.9	3767325	0.005470996	5.47E-03	1.64E-03	6.21E-04
1399	457463.9	3767325	0.005252041	5.25E-03	1.57E-03	5.96E-04
1400	457493.9	3767325	0.005021102	5.02E-03	1.50E-03	5.70E-04
1401	457523.9	3767325	0.004780266	4.78E-03	1.43E-03	5.42E-04
1402	457553.9	3767325	0.004532001	4.53E-03	1.36E-03	5.14E-04
1403	457583.9	3767325	0.00428274	4.28E-03	1.28E-03	4.86E-04
1404	457613.9	3767325	0.004036209	4.04E-03	1.21E-03	4.58E-04
1405	457643.9	3767325	0.003795705	3.80E-03	1.14E-03	4.31E-04
1406	457673.9	3767325	0.003563816	3.56E-03	1.07E-03	4.04E-04
1407	457703.9	3767325	0.003342417	3.34E-03	1.00E-03	3.79E-04

1408	457733.9	3767325	0.003133003	3.13E-03	9.38E-04	3.55E-04
1409	457763.9	3767325	0.002936451	2.94E-03	8.80E-04	3.33E-04
1410	457793.9	3767325	0.002753024	2.75E-03	8.25E-04	3.12E-04
1411	457823.9	3767325	0.002582721	2.58E-03	7.74E-04	2.93E-04
1412	457853.9	3767325	0.002425921	2.43E-03	7.27E-04	2.75E-04
1413	457883.9	3767325	0.002281201	2.28E-03	6.83E-04	2.59E-04
1414	457913.9	3767325	0.002147161	2.15E-03	6.43E-04	2.44E-04
1415	457943.9	3767325	0.002023824	2.02E-03	6.06E-04	2.30E-04
1416	457973.9	3767325	0.00191081	1.91E-03	5.72E-04	2.17E-04
1417	458003.9	3767325	0.001806863	1.81E-03	5.41E-04	2.05E-04
1418	458033.9	3767325	0.001710889	1.71E-03	5.12E-04	1.94E-04
1419	458063.9	3767325	0.001622605	1.62E-03	4.86E-04	1.84E-04
1420	458093.9	3767325	0.001541369	1.54E-03	4.62E-04	1.75E-04
1421	458123.9	3767325	0.001466564	1.47E-03	4.39E-04	1.66E-04
1422	458153.9	3767325	0.001397907	1.40E-03	4.19E-04	1.59E-04
1423	458183.9	3767325	0.001334613	1.33E-03	4.00E-04	1.51E-04
1424	456713.9	3767355	0.003831897	3.83E-03	1.15E-03	4.35E-04
1425	456743.9	3767355	0.004018172	4.02E-03	1.20E-03	4.56E-04
1426	456773.9	3767355	0.004211449	4.21E-03	1.26E-03	4.78E-04
1427	456803.9	3767355	0.004414028	4.41E-03	1.32E-03	5.01E-04
1428	456833.9	3767355	0.004625246	4.63E-03	1.39E-03	5.25E-04
1429	456863.9	3767355	0.004837485	4.84E-03	1.45E-03	5.49E-04
1430	456893.9	3767355	0.005051384	5.05E-03	1.51E-03	5.73E-04
1431	456923.9	3767355	0.005268678	5.27E-03	1.58E-03	5.98E-04
1432	456953.9	3767355	0.005483313	5.48E-03	1.64E-03	6.22E-04
1433	456983.9	3767355	0.005688954	5.69E-03	1.70E-03	6.45E-04
1434	457013.9	3767355	0.005881969	5.88E-03	1.76E-03	6.67E-04
1435	457043.9	3767355	0.006061932	6.06E-03	1.82E-03	6.88E-04
1436	457073.9	3767355	0.006228461	6.23E-03	1.87E-03	7.07E-04
1437	457103.9	3767355	0.006378236	6.38E-03	1.91E-03	7.24E-04
1438	457133.9	3767355	0.00650295	6.50E-03	1.95E-03	7.38E-04
1439	457163.9	3767355	0.006595577	6.60E-03	1.98E-03	7.48E-04
1440	457193.9	3767355	0.006653199	6.65E-03	1.99E-03	7.55E-04
1441	457223.9	3767355	0.006676077	6.68E-03	2.00E-03	7.57E-04
1442	457253.9	3767355	0.006665421	6.67E-03	2.00E-03	7.56E-04
1443	457283.9	3767355	0.006617553	6.62E-03	1.98E-03	7.51E-04
1444	457313.9	3767355	0.006529767	6.53E-03	1.96E-03	7.41E-04
1445	457343.9	3767355	0.006405956	6.41E-03	1.92E-03	7.27E-04
1446	457373.9	3767355	0.006250699	6.25E-03	1.87E-03	7.09E-04
1447	457403.9	3767355	0.006062548	6.06E-03	1.82E-03	6.88E-04
1448	457433.9	3767355	0.005845231	5.85E-03	1.75E-03	6.63E-04
1449	457463.9	3767355	0.005608833	5.61E-03	1.68E-03	6.36E-04
1450	457493.9	3767355	0.005355799	5.36E-03	1.60E-03	6.08E-04
1451	457523.9	3767355	0.005091183	5.09E-03	1.52E-03	5.78E-04
1452	457553.9	3767355	0.004819994	4.82E-03	1.44E-03	5.47E-04
1453	457583.9	3767355	0.004547237	4.55E-03	1.36E-03	5.16E-04
1454	457613.9	3767355	0.004277329	4.28E-03	1.28E-03	4.85E-04

1455	457643.9	3767355	0.004013948	4.01E-03	1.20E-03	4.55E-04
1456	457673.9	3767355	0.003760273	3.76E-03	1.13E-03	4.27E-04
1457	457703.9	3767355	0.003518582	3.52E-03	1.05E-03	3.99E-04
1458	457733.9	3767355	0.003290491	3.29E-03	9.86E-04	3.73E-04
1459	457763.9	3767355	0.003076947	3.08E-03	9.22E-04	3.49E-04
1460	457793.9	3767355	0.002878284	2.88E-03	8.62E-04	3.27E-04
1461	457823.9	3767355	0.002695378	2.70E-03	8.07E-04	3.06E-04
1462	457853.9	3767355	0.002526641	2.53E-03	7.57E-04	2.87E-04
1463	457883.9	3767355	0.002370672	2.37E-03	7.10E-04	2.69E-04
1464	457913.9	3767355	0.002227471	2.23E-03	6.67E-04	2.53E-04
1465	457943.9	3767355	0.002096659	2.10E-03	6.28E-04	2.38E-04
1466	457973.9	3767355	0.001976739	1.98E-03	5.92E-04	2.24E-04
1467	458003.9	3767355	0.001866407	1.87E-03	5.59E-04	2.12E-04
1468	458033.9	3767355	0.001765236	1.77E-03	5.29E-04	2.00E-04
1469	458063.9	3767355	0.00167249	1.67E-03	5.01E-04	1.90E-04
1470	458093.9	3767355	0.001587386	1.59E-03	4.75E-04	1.80E-04
1471	458123.9	3767355	0.001509544	1.51E-03	4.52E-04	1.71E-04
1472	458153.9	3767355	0.001437991	1.44E-03	4.31E-04	1.63E-04
1473	458183.9	3767355	0.001372015	1.37E-03	4.11E-04	1.56E-04
1474	456713.9	3767385	0.003888594	3.89E-03	1.16E-03	4.41E-04
1475	456743.9	3767385	0.004086213	4.09E-03	1.22E-03	4.64E-04
1476	456773.9	3767385	0.004295081	4.30E-03	1.29E-03	4.87E-04
1477	456803.9	3767385	0.004512493	4.51E-03	1.35E-03	5.12E-04
1478	456833.9	3767385	0.004736883	4.74E-03	1.42E-03	5.37E-04
1479	456863.9	3767385	0.004967086	4.97E-03	1.49E-03	5.64E-04
1480	456893.9	3767385	0.005197552	5.20E-03	1.56E-03	5.90E-04
1481	456923.9	3767385	0.005433285	5.43E-03	1.63E-03	6.16E-04
1482	456953.9	3767385	0.005671985	5.67E-03	1.70E-03	6.44E-04
1483	456983.9	3767385	0.005906271	5.91E-03	1.77E-03	6.70E-04
1484	457013.9	3767385	0.006132345	6.13E-03	1.84E-03	6.96E-04
1485	457043.9	3767385	0.006342828	6.34E-03	1.90E-03	7.20E-04
1486	457073.9	3767385	0.006536697	6.54E-03	1.96E-03	7.42E-04
1487	457103.9	3767385	0.006713052	6.71E-03	2.01E-03	7.62E-04
1488	457133.9	3767385	0.00686005	6.86E-03	2.05E-03	7.78E-04
1489	457163.9	3767385	0.006973064	6.97E-03	2.09E-03	7.91E-04
1490	457193.9	3767385	0.007051309	7.05E-03	2.11E-03	8.00E-04
1491	457223.9	3767385	0.007091583	7.09E-03	2.12E-03	8.05E-04
1492	457253.9	3767385	0.007094929	7.09E-03	2.13E-03	8.05E-04
1493	457283.9	3767385	0.007056507	7.06E-03	2.11E-03	8.01E-04
1494	457313.9	3767385	0.006972542	6.97E-03	2.09E-03	7.91E-04
1495	457343.9	3767385	0.006850273	6.85E-03	2.05E-03	7.77E-04
1496	457373.9	3767385	0.006689344	6.69E-03	2.00E-03	7.59E-04
1497	457403.9	3767385	0.006490205	6.49E-03	1.94E-03	7.36E-04
1498	457433.9	3767385	0.006260073	6.26E-03	1.87E-03	7.10E-04
1499	457463.9	3767385	0.006002221	6.00E-03	1.80E-03	6.81E-04
1500	457493.9	3767385	0.005724267	5.72E-03	1.71E-03	6.49E-04
1501	457523.9	3767385	0.005435089	5.44E-03	1.63E-03	6.17E-04

1502	457553.9	3767385	0.005138031	5.14E-03	1.54E-03	5.83E-04
1503	457583.9	3767385	0.004838695	4.84E-03	1.45E-03	5.49E-04
1504	457613.9	3767385	0.004542278	4.54E-03	1.36E-03	5.15E-04
1505	457643.9	3767385	0.004253099	4.25E-03	1.27E-03	4.83E-04
1506	457673.9	3767385	0.003974861	3.97E-03	1.19E-03	4.51E-04
1507	457703.9	3767385	0.003710197	3.71E-03	1.11E-03	4.21E-04
1508	457733.9	3767385	0.003461079	3.46E-03	1.04E-03	3.93E-04
1509	457763.9	3767385	0.003228502	3.23E-03	9.67E-04	3.66E-04
1510	457793.9	3767385	0.003013961	3.01E-03	9.03E-04	3.42E-04
1511	457823.9	3767385	0.002816057	2.82E-03	8.43E-04	3.19E-04
1512	457853.9	3767385	0.002633271	2.63E-03	7.89E-04	2.99E-04
1513	457883.9	3767385	0.002465768	2.47E-03	7.39E-04	2.80E-04
1514	457913.9	3767385	0.00231324	2.31E-03	6.93E-04	2.62E-04
1515	457943.9	3767385	0.00217386	2.17E-03	6.51E-04	2.47E-04
1516	457973.9	3767385	0.002046013	2.05E-03	6.13E-04	2.32E-04
1517	458003.9	3767385	0.001929274	1.93E-03	5.78E-04	2.19E-04
1518	458033.9	3767385	0.001822645	1.82E-03	5.46E-04	2.07E-04
1519	458063.9	3767385	0.001725176	1.73E-03	5.17E-04	1.96E-04
1520	458093.9	3767385	0.001636346	1.64E-03	4.90E-04	1.86E-04
1521	458123.9	3767385	0.001555039	1.56E-03	4.66E-04	1.76E-04
1522	458153.9	3767385	0.001480282	1.48E-03	4.43E-04	1.68E-04
1523	458183.9	3767385	0.001411909	1.41E-03	4.23E-04	1.60E-04
1524	456713.9	3767415	0.003940544	3.94E-03	1.18E-03	4.47E-04
1525	456743.9	3767415	0.004152545	4.15E-03	1.24E-03	4.71E-04
1526	456773.9	3767415	0.004375344	4.38E-03	1.31E-03	4.96E-04
1527	456803.9	3767415	0.004604694	4.60E-03	1.38E-03	5.22E-04
1528	456833.9	3767415	0.004846052	4.85E-03	1.45E-03	5.50E-04
1529	456863.9	3767415	0.005095502	5.10E-03	1.53E-03	5.78E-04
1530	456893.9	3767415	0.005346852	5.35E-03	1.60E-03	6.07E-04
1531	456923.9	3767415	0.005601903	5.60E-03	1.68E-03	6.36E-04
1532	456953.9	3767415	0.005862057	5.86E-03	1.76E-03	6.65E-04
1533	456983.9	3767415	0.006128429	6.13E-03	1.84E-03	6.95E-04
1534	457013.9	3767415	0.006388702	6.39E-03	1.91E-03	7.25E-04
1535	457043.9	3767415	0.006633287	6.63E-03	1.99E-03	7.53E-04
1536	457073.9	3767415	0.006858318	6.86E-03	2.05E-03	7.78E-04
1537	457103.9	3767415	0.007061894	7.06E-03	2.12E-03	8.01E-04
1538	457133.9	3767415	0.007238582	7.24E-03	2.17E-03	8.21E-04
1539	457163.9	3767415	0.007379101	7.38E-03	2.21E-03	8.37E-04
1540	457193.9	3767415	0.007482337	7.48E-03	2.24E-03	8.49E-04
1541	457223.9	3767415	0.007547529	7.55E-03	2.26E-03	8.56E-04
1542	457253.9	3767415	0.007568247	7.57E-03	2.27E-03	8.59E-04
1543	457283.9	3767415	0.00753844	7.54E-03	2.26E-03	8.55E-04
1544	457313.9	3767415	0.007463801	7.46E-03	2.24E-03	8.47E-04
1545	457343.9	3767415	0.007342363	7.34E-03	2.20E-03	8.33E-04
1546	457373.9	3767415	0.007173175	7.17E-03	2.15E-03	8.14E-04
1547	457403.9	3767415	0.006962812	6.96E-03	2.09E-03	7.90E-04
1548	457433.9	3767415	0.006716399	6.72E-03	2.01E-03	7.62E-04

1549	457463.9	3767415	0.006439608	6.44E-03	1.93E-03	7.31E-04
1550	457493.9	3767415	0.006139228	6.14E-03	1.84E-03	6.97E-04
1551	457523.9	3767415	0.005820027	5.82E-03	1.74E-03	6.60E-04
1552	457553.9	3767415	0.005490907	5.49E-03	1.64E-03	6.23E-04
1553	457583.9	3767415	0.005161336	5.16E-03	1.55E-03	5.86E-04
1554	457613.9	3767415	0.004834707	4.83E-03	1.45E-03	5.49E-04
1555	457643.9	3767415	0.004516125	4.52E-03	1.35E-03	5.12E-04
1556	457673.9	3767415	0.004211662	4.21E-03	1.26E-03	4.78E-04
1557	457703.9	3767415	0.003920988	3.92E-03	1.17E-03	4.45E-04
1558	457733.9	3767415	0.003646334	3.65E-03	1.09E-03	4.14E-04
1559	457763.9	3767415	0.003392374	3.39E-03	1.02E-03	3.85E-04
1560	457793.9	3767415	0.003159037	3.16E-03	9.46E-04	3.58E-04
1561	457823.9	3767415	0.002944497	2.94E-03	8.82E-04	3.34E-04
1562	457853.9	3767415	0.002747138	2.75E-03	8.23E-04	3.12E-04
1563	457883.9	3767415	0.002567817	2.57E-03	7.69E-04	2.91E-04
1564	457913.9	3767415	0.002404443	2.40E-03	7.20E-04	2.73E-04
1565	457943.9	3767415	0.002255191	2.26E-03	6.75E-04	2.56E-04
1566	457973.9	3767415	0.002119394	2.12E-03	6.35E-04	2.40E-04
1567	458003.9	3767415	0.001995867	2.00E-03	5.98E-04	2.26E-04
1568	458033.9	3767415	0.001883779	1.88E-03	5.64E-04	2.14E-04
1569	458063.9	3767415	0.001781659	1.78E-03	5.34E-04	2.02E-04
1570	458093.9	3767415	0.00168832	1.69E-03	5.06E-04	1.92E-04
1571	458123.9	3767415	0.001603144	1.60E-03	4.80E-04	1.82E-04
1572	458153.9	3767415	0.001525326	1.53E-03	4.57E-04	1.73E-04
1573	458183.9	3767415	0.001454342	1.45E-03	4.36E-04	1.65E-04
1574	456713.9	3767445	0.003992517	3.99E-03	1.20E-03	4.53E-04
1575	456743.9	3767445	0.004214012	4.21E-03	1.26E-03	4.78E-04
1576	456773.9	3767445	0.004447348	4.45E-03	1.33E-03	5.05E-04
1577	456803.9	3767445	0.004695232	4.70E-03	1.41E-03	5.33E-04
1578	456833.9	3767445	0.004954912	4.95E-03	1.48E-03	5.62E-04
1579	456863.9	3767445	0.005220857	5.22E-03	1.56E-03	5.92E-04
1580	456893.9	3767445	0.005494704	5.49E-03	1.65E-03	6.23E-04
1581	456923.9	3767445	0.005774438	5.77E-03	1.73E-03	6.55E-04
1582	456953.9	3767445	0.00606205	6.06E-03	1.82E-03	6.88E-04
1583	456983.9	3767445	0.006355311	6.36E-03	1.90E-03	7.21E-04
1584	457013.9	3767445	0.006644466	6.64E-03	1.99E-03	7.54E-04
1585	457043.9	3767445	0.006928067	6.93E-03	2.08E-03	7.86E-04
1586	457073.9	3767445	0.007192564	7.19E-03	2.15E-03	8.16E-04
1587	457103.9	3767445	0.007431359	7.43E-03	2.23E-03	8.43E-04
1588	457133.9	3767445	0.007642933	7.64E-03	2.29E-03	8.67E-04
1589	457163.9	3767445	0.00781618	7.82E-03	2.34E-03	8.87E-04
1590	457193.9	3767445	0.007953281	7.95E-03	2.38E-03	9.02E-04
1591	457223.9	3767445	0.00804541	8.05E-03	2.41E-03	9.13E-04
1592	457253.9	3767445	0.008083785	8.08E-03	2.42E-03	9.17E-04
1593	457283.9	3767445	0.008069261	8.07E-03	2.42E-03	9.15E-04
1594	457313.9	3767445	0.008004282	8.00E-03	2.40E-03	9.08E-04
1595	457343.9	3767445	0.007885478	7.89E-03	2.36E-03	8.95E-04

1596	457373.9	3767445	0.007711425	7.71E-03	2.31E-03	8.75E-04
1597	457403.9	3767445	0.007489622	7.49E-03	2.24E-03	8.50E-04
1598	457433.9	3767445	0.0072256	7.23E-03	2.16E-03	8.20E-04
1599	457463.9	3767445	0.006925836	6.93E-03	2.07E-03	7.86E-04
1600	457493.9	3767445	0.006597926	6.60E-03	1.98E-03	7.49E-04
1601	457523.9	3767445	0.006249702	6.25E-03	1.87E-03	7.09E-04
1602	457553.9	3767445	0.005886977	5.89E-03	1.76E-03	6.68E-04
1603	457583.9	3767445	0.005522495	5.52E-03	1.65E-03	6.27E-04
1604	457613.9	3767445	0.005163377	5.16E-03	1.55E-03	5.86E-04
1605	457643.9	3767445	0.004810762	4.81E-03	1.44E-03	5.46E-04
1606	457673.9	3767445	0.004472362	4.47E-03	1.34E-03	5.07E-04
1607	457703.9	3767445	0.00415169	4.15E-03	1.24E-03	4.71E-04
1608	457733.9	3767445	0.00385131	3.85E-03	1.15E-03	4.37E-04
1609	457763.9	3767445	0.003572882	3.57E-03	1.07E-03	4.05E-04
1610	457793.9	3767445	0.003316763	3.32E-03	9.93E-04	3.76E-04
1611	457823.9	3767445	0.0030825	3.08E-03	9.23E-04	3.50E-04
1612	457853.9	3767445	0.002869906	2.87E-03	8.60E-04	3.26E-04
1613	457883.9	3767445	0.002676796	2.68E-03	8.02E-04	3.04E-04
1614	457913.9	3767445	0.002500963	2.50E-03	7.49E-04	2.84E-04
1615	457943.9	3767445	0.002341648	2.34E-03	7.01E-04	2.66E-04
1616	457973.9	3767445	0.002197782	2.20E-03	6.58E-04	2.49E-04
1617	458003.9	3767445	0.002067373	2.07E-03	6.19E-04	2.35E-04
1618	458033.9	3767445	0.001948782	1.95E-03	5.84E-04	2.21E-04
1619	458063.9	3767445	0.00184118	1.84E-03	5.51E-04	2.09E-04
1620	458093.9	3767445	0.001743426	1.74E-03	5.22E-04	1.98E-04
1621	458123.9	3767445	0.001654525	1.65E-03	4.96E-04	1.88E-04
1622	458153.9	3767445	0.001573764	1.57E-03	4.71E-04	1.79E-04
1623	458183.9	3767445	0.001500075	1.50E-03	4.49E-04	1.70E-04
1624	458034.7	3768826	0.004272061	4.27E-03	1.28E-03	4.85E-04
1625	458044.7	3768826	0.004327998	4.33E-03	1.30E-03	4.91E-04
1626	458054.7	3768826	0.00438835	4.39E-03	1.31E-03	4.98E-04
1627	458064.7	3768826	0.004452451	4.45E-03	1.33E-03	5.05E-04
1628	458074.7	3768826	0.004515128	4.52E-03	1.35E-03	5.12E-04
1629	458084.7	3768826	0.004575835	4.58E-03	1.37E-03	5.19E-04
1630	458094.7	3768826	0.004635261	4.64E-03	1.39E-03	5.26E-04
1631	458104.7	3768826	0.004692432	4.69E-03	1.41E-03	5.32E-04
1632	458144.7	3768826	0.004902582	4.90E-03	1.47E-03	5.56E-04
1633	458154.7	3768826	0.004949596	4.95E-03	1.48E-03	5.62E-04
1634	458164.7	3768826	0.00499445	4.99E-03	1.50E-03	5.67E-04
1635	458174.7	3768826	0.00503311	5.03E-03	1.51E-03	5.71E-04
1636	458184.7	3768826	0.005066454	5.07E-03	1.52E-03	5.75E-04
1637	458194.7	3768826	0.005097449	5.10E-03	1.53E-03	5.78E-04
1638	458204.7	3768826	0.005129962	5.13E-03	1.54E-03	5.82E-04
1639	458214.7	3768826	0.005163472	5.16E-03	1.55E-03	5.86E-04
1640	458224.7	3768826	0.005194443	5.19E-03	1.56E-03	5.89E-04
1641	458234.7	3768826	0.005222732	5.22E-03	1.56E-03	5.93E-04
1642	458034.7	3768836	0.004110183	4.11E-03	1.23E-03	4.66E-04

1643	458044.7	3768836	0.004168184	4.17E-03	1.25E-03	4.73E-04
1644	458054.7	3768836	0.004229058	4.23E-03	1.27E-03	4.80E-04
1645	458064.7	3768836	0.004292186	4.29E-03	1.29E-03	4.87E-04
1646	458074.7	3768836	0.004354009	4.35E-03	1.30E-03	4.94E-04
1647	458084.7	3768836	0.004414455	4.41E-03	1.32E-03	5.01E-04
1648	458094.7	3768836	0.004473264	4.47E-03	1.34E-03	5.08E-04
1649	458104.7	3768836	0.004530554	4.53E-03	1.36E-03	5.14E-04
1650	458144.7	3768836	0.004739849	4.74E-03	1.42E-03	5.38E-04
1651	458154.7	3768836	0.004784989	4.78E-03	1.43E-03	5.43E-04
1652	458164.7	3768836	0.004828276	4.83E-03	1.45E-03	5.48E-04
1653	458174.7	3768836	0.004868028	4.87E-03	1.46E-03	5.52E-04
1654	458184.7	3768836	0.004904386	4.90E-03	1.47E-03	5.56E-04
1655	458194.7	3768836	0.004938798	4.94E-03	1.48E-03	5.60E-04
1656	458204.7	3768836	0.004973661	4.97E-03	1.49E-03	5.64E-04
1657	458214.7	3768836	0.005008595	5.01E-03	1.50E-03	5.68E-04
1658	458224.7	3768836	0.005041155	5.04E-03	1.51E-03	5.72E-04
1659	458234.7	3768836	0.005071295	5.07E-03	1.52E-03	5.75E-04
1660	458034.7	3768846	0.003955258	3.96E-03	1.18E-03	4.49E-04
1661	458044.7	3768846	0.004015799	4.02E-03	1.20E-03	4.56E-04
1662	458054.7	3768846	0.004077005	4.08E-03	1.22E-03	4.63E-04
1663	458064.7	3768846	0.004139065	4.14E-03	1.24E-03	4.70E-04
1664	458074.7	3768846	0.004199962	4.20E-03	1.26E-03	4.77E-04
1665	458084.7	3768846	0.004259577	4.26E-03	1.28E-03	4.83E-04
1666	458094.7	3768846	0.004317888	4.32E-03	1.29E-03	4.90E-04
1667	458104.7	3768846	0.004374608	4.37E-03	1.31E-03	4.96E-04
1668	458144.7	3768846	0.004582433	4.58E-03	1.37E-03	5.20E-04
1669	458154.7	3768846	0.004625246	4.63E-03	1.39E-03	5.25E-04
1670	458164.7	3768846	0.004666682	4.67E-03	1.40E-03	5.29E-04
1671	458174.7	3768846	0.004707217	4.71E-03	1.41E-03	5.34E-04
1672	458184.7	3768846	0.004747017	4.75E-03	1.42E-03	5.39E-04
1673	458194.7	3768846	0.004785059	4.79E-03	1.43E-03	5.43E-04
1674	458204.7	3768846	0.004822106	4.82E-03	1.44E-03	5.47E-04
1675	458214.7	3768846	0.00485825	4.86E-03	1.46E-03	5.51E-04
1676	458224.7	3768846	0.004892163	4.89E-03	1.47E-03	5.55E-04
1677	458234.7	3768846	0.004923775	4.92E-03	1.47E-03	5.59E-04
1678	458034.7	3768856	0.003807429	3.81E-03	1.14E-03	4.32E-04
1679	458044.7	3768856	0.003869631	3.87E-03	1.16E-03	4.39E-04
1680	458054.7	3768856	0.003931383	3.93E-03	1.18E-03	4.46E-04
1681	458064.7	3768856	0.003992256	3.99E-03	1.20E-03	4.53E-04
1682	458074.7	3768856	0.00405211	4.05E-03	1.21E-03	4.60E-04
1683	458084.7	3768856	0.004110895	4.11E-03	1.23E-03	4.66E-04
1684	458094.7	3768856	0.004168398	4.17E-03	1.25E-03	4.73E-04
1685	458104.7	3768856	0.004224667	4.22E-03	1.27E-03	4.79E-04
1686	458144.7	3768856	0.004430237	4.43E-03	1.33E-03	5.03E-04
1687	458154.7	3768856	0.004471009	4.47E-03	1.34E-03	5.07E-04
1688	458164.7	3768856	0.004509978	4.51E-03	1.35E-03	5.12E-04
1689	458174.7	3768856	0.004551177	4.55E-03	1.36E-03	5.16E-04

1690	458184.7	3768856	0.004594465	4.59E-03	1.38E-03	5.21E-04
1691	458194.7	3768856	0.004635593	4.64E-03	1.39E-03	5.26E-04
1692	458204.7	3768856	0.004674846	4.67E-03	1.40E-03	5.30E-04
1693	458214.7	3768856	0.004712035	4.71E-03	1.41E-03	5.35E-04
1694	458224.7	3768856	0.004747088	4.75E-03	1.42E-03	5.39E-04
1695	458234.7	3768856	0.004779981	4.78E-03	1.43E-03	5.42E-04
1696	458034.7	3768866	0.003670493	3.67E-03	1.10E-03	4.16E-04
1697	458044.7	3768866	0.003731533	3.73E-03	1.12E-03	4.23E-04
1698	458054.7	3768866	0.003791908	3.79E-03	1.14E-03	4.30E-04
1699	458064.7	3768866	0.003851524	3.85E-03	1.15E-03	4.37E-04
1700	458074.7	3768866	0.003910309	3.91E-03	1.17E-03	4.44E-04
1701	458084.7	3768866	0.003966697	3.97E-03	1.19E-03	4.50E-04
1702	458094.7	3768866	0.004020474	4.02E-03	1.20E-03	4.56E-04
1703	458104.7	3768866	0.004073374	4.07E-03	1.22E-03	4.62E-04
1704	458144.7	3768866	0.004278469	4.28E-03	1.28E-03	4.85E-04
1705	458154.7	3768866	0.004321543	4.32E-03	1.29E-03	4.90E-04
1706	458164.7	3768866	0.004363193	4.36E-03	1.31E-03	4.95E-04
1707	458174.7	3768866	0.004406149	4.41E-03	1.32E-03	5.00E-04
1708	458184.7	3768866	0.004449958	4.45E-03	1.33E-03	5.05E-04
1709	458194.7	3768866	0.004491822	4.49E-03	1.35E-03	5.10E-04
1710	458204.7	3768866	0.004530791	4.53E-03	1.36E-03	5.14E-04
1711	458214.7	3768866	0.004566627	4.57E-03	1.37E-03	5.18E-04
1712	458224.7	3768866	0.004600802	4.60E-03	1.38E-03	5.22E-04
1713	458234.7	3768866	0.004633861	4.63E-03	1.39E-03	5.26E-04
1714	458034.7	3768876	0.003539894	3.54E-03	1.06E-03	4.02E-04
1715	458044.7	3768876	0.003599344	3.60E-03	1.08E-03	4.08E-04
1716	458054.7	3768876	0.003658342	3.66E-03	1.10E-03	4.15E-04
1717	458064.7	3768876	0.003716653	3.72E-03	1.11E-03	4.22E-04
1718	458074.7	3768876	0.003774251	3.77E-03	1.13E-03	4.28E-04
1719	458084.7	3768876	0.003828029	3.83E-03	1.15E-03	4.34E-04
1720	458094.7	3768876	0.003877938	3.88E-03	1.16E-03	4.40E-04
1721	458104.7	3768876	0.003927325	3.93E-03	1.18E-03	4.46E-04
1722	458144.7	3768876	0.004131281	4.13E-03	1.24E-03	4.69E-04
1723	458154.7	3768876	0.004177084	4.18E-03	1.25E-03	4.74E-04
1724	458164.7	3768876	0.004221725	4.22E-03	1.26E-03	4.79E-04
1725	458174.7	3768876	0.00426608	4.27E-03	1.28E-03	4.84E-04
1726	458184.7	3768876	0.004310104	4.31E-03	1.29E-03	4.89E-04
1727	458194.7	3768876	0.004352514	4.35E-03	1.30E-03	4.94E-04
1728	458204.7	3768876	0.004390723	4.39E-03	1.32E-03	4.98E-04
1729	458214.7	3768876	0.004425063	4.43E-03	1.33E-03	5.02E-04
1730	458224.7	3768876	0.004457909	4.46E-03	1.34E-03	5.06E-04
1731	458234.7	3768876	0.004491087	4.49E-03	1.35E-03	5.10E-04
1732	458034.7	3768886	0.003414967	3.41E-03	1.02E-03	3.87E-04
1733	458044.7	3768886	0.003472921	3.47E-03	1.04E-03	3.94E-04
1734	458054.7	3768886	0.003530401	3.53E-03	1.06E-03	4.01E-04
1735	458064.7	3768886	0.00358743	3.59E-03	1.07E-03	4.07E-04
1736	458074.7	3768886	0.003643794	3.64E-03	1.09E-03	4.13E-04

1737	458084.7	3768886	0.00369489	3.69E-03	1.11E-03	4.19E-04
1738	458094.7	3768886	0.003741311	3.74E-03	1.12E-03	4.24E-04
1739	458104.7	3768886	0.003786734	3.79E-03	1.13E-03	4.30E-04
1740	458144.7	3768886	0.003989124	3.99E-03	1.19E-03	4.53E-04
1741	458154.7	3768886	0.004037775	4.04E-03	1.21E-03	4.58E-04
1742	458164.7	3768886	0.004084765	4.08E-03	1.22E-03	4.63E-04
1743	458174.7	3768886	0.004130545	4.13E-03	1.24E-03	4.69E-04
1744	458184.7	3768886	0.004174806	4.17E-03	1.25E-03	4.74E-04
1745	458194.7	3768886	0.004217405	4.22E-03	1.26E-03	4.78E-04
1746	458204.7	3768886	0.004254879	4.25E-03	1.27E-03	4.83E-04
1747	458214.7	3768886	0.004287677	4.29E-03	1.28E-03	4.86E-04
1748	458224.7	3768886	0.004318838	4.32E-03	1.29E-03	4.90E-04
1749	458234.7	3768886	0.00435192	4.35E-03	1.30E-03	4.94E-04
1750	458034.7	3768896	0.003291132	3.29E-03	9.86E-04	3.73E-04
1751	458044.7	3768896	0.003344743	3.34E-03	1.00E-03	3.79E-04
1752	458054.7	3768896	0.003399209	3.40E-03	1.02E-03	3.86E-04
1753	458064.7	3768896	0.003454909	3.45E-03	1.03E-03	3.92E-04
1754	458074.7	3768896	0.003510134	3.51E-03	1.05E-03	3.98E-04
1755	458084.7	3768896	0.003561823	3.56E-03	1.07E-03	4.04E-04
1756	458094.7	3768896	0.003609762	3.61E-03	1.08E-03	4.10E-04
1757	458104.7	3768896	0.003657084	3.66E-03	1.10E-03	4.15E-04
1758	458144.7	3768896	0.003858548	3.86E-03	1.16E-03	4.38E-04
1759	458154.7	3768896	0.00390682	3.91E-03	1.17E-03	4.43E-04
1760	458164.7	3768896	0.003953882	3.95E-03	1.18E-03	4.49E-04
1761	458174.7	3768896	0.003998427	4.00E-03	1.20E-03	4.54E-04
1762	458184.7	3768896	0.004040291	4.04E-03	1.21E-03	4.58E-04
1763	458194.7	3768896	0.004081063	4.08E-03	1.22E-03	4.63E-04
1764	458204.7	3768896	0.004118869	4.12E-03	1.23E-03	4.67E-04
1765	458214.7	3768896	0.004154111	4.15E-03	1.24E-03	4.71E-04
1766	458224.7	3768896	0.004187882	4.19E-03	1.25E-03	4.75E-04
1767	458234.7	3768896	0.004222627	4.22E-03	1.26E-03	4.79E-04
1768	458034.7	3768906	0.003172446	3.17E-03	9.50E-04	3.60E-04
1769	458044.7	3768906	0.003221596	3.22E-03	9.65E-04	3.66E-04
1770	458054.7	3768906	0.003273285	3.27E-03	9.80E-04	3.71E-04
1771	458064.7	3768906	0.003327679	3.33E-03	9.97E-04	3.78E-04
1772	458074.7	3768906	0.003381647	3.38E-03	1.01E-03	3.84E-04
1773	458084.7	3768906	0.003433621	3.43E-03	1.03E-03	3.90E-04
1774	458094.7	3768906	0.003483459	3.48E-03	1.04E-03	3.95E-04
1775	458104.7	3768906	0.003532988	3.53E-03	1.06E-03	4.01E-04
1776	458144.7	3768906	0.003732838	3.73E-03	1.12E-03	4.24E-04
1777	458154.7	3768906	0.003780754	3.78E-03	1.13E-03	4.29E-04
1778	458164.7	3768906	0.003827435	3.83E-03	1.15E-03	4.34E-04
1779	458174.7	3768906	0.003870486	3.87E-03	1.16E-03	4.39E-04
1780	458184.7	3768906	0.003909929	3.91E-03	1.17E-03	4.44E-04
1781	458194.7	3768906	0.003948399	3.95E-03	1.18E-03	4.48E-04
1782	458204.7	3768906	0.003986561	3.99E-03	1.19E-03	4.52E-04
1783	458214.7	3768906	0.004024438	4.02E-03	1.21E-03	4.57E-04

1784	458224.7	3768906	0.004061152	4.06E-03	1.22E-03	4.61E-04
1785	458234.7	3768906	0.004097415	4.10E-03	1.23E-03	4.65E-04
1786	458034.7	3768916	0.00305929	3.06E-03	9.16E-04	3.47E-04
1787	458044.7	3768916	0.003103836	3.10E-03	9.30E-04	3.52E-04
1788	458054.7	3768916	0.003152796	3.15E-03	9.44E-04	3.58E-04
1789	458064.7	3768916	0.00320579	3.21E-03	9.60E-04	3.64E-04
1790	458074.7	3768916	0.0032585	3.26E-03	9.76E-04	3.70E-04
1791	458084.7	3768916	0.003310592	3.31E-03	9.92E-04	3.76E-04
1792	458094.7	3768916	0.003362471	3.36E-03	1.01E-03	3.81E-04
1793	458104.7	3768916	0.003413567	3.41E-03	1.02E-03	3.87E-04
1794	458144.7	3768916	0.003611803	3.61E-03	1.08E-03	4.10E-04
1795	458154.7	3768916	0.003659125	3.66E-03	1.10E-03	4.15E-04
1796	458164.7	3768916	0.003705451	3.71E-03	1.11E-03	4.20E-04
1797	458174.7	3768916	0.003746864	3.75E-03	1.12E-03	4.25E-04
1798	458184.7	3768916	0.003783981	3.78E-03	1.13E-03	4.29E-04
1799	458194.7	3768916	0.003819912	3.82E-03	1.14E-03	4.33E-04
1800	458204.7	3768916	0.003858216	3.86E-03	1.16E-03	4.38E-04
1801	458214.7	3768916	0.003898893	3.90E-03	1.17E-03	4.42E-04
1802	458224.7	3768916	0.003937981	3.94E-03	1.18E-03	4.47E-04
1803	458234.7	3768916	0.00397581	3.98E-03	1.19E-03	4.51E-04
1804	458034.7	3768926	0.002950857	2.95E-03	8.84E-04	3.35E-04
1805	458044.7	3768926	0.002996613	3.00E-03	8.98E-04	3.40E-04
1806	458054.7	3768926	0.00304543	3.05E-03	9.12E-04	3.46E-04
1807	458064.7	3768926	0.003096977	3.10E-03	9.28E-04	3.51E-04
1808	458074.7	3768926	0.003148334	3.15E-03	9.43E-04	3.57E-04
1809	458084.7	3768926	0.003199406	3.20E-03	9.58E-04	3.63E-04
1810	458094.7	3768926	0.003250098	3.25E-03	9.73E-04	3.69E-04
1811	458104.7	3768926	0.00330034	3.30E-03	9.89E-04	3.74E-04
1812	458144.7	3768926	0.003493948	3.49E-03	1.05E-03	3.96E-04
1813	458154.7	3768926	0.003538233	3.54E-03	1.06E-03	4.01E-04
1814	458164.7	3768926	0.003581877	3.58E-03	1.07E-03	4.06E-04
1815	458174.7	3768926	0.003623053	3.62E-03	1.09E-03	4.11E-04
1816	458184.7	3768926	0.003662021	3.66E-03	1.10E-03	4.15E-04
1817	458194.7	3768926	0.00370004	3.70E-03	1.11E-03	4.20E-04
1818	458204.7	3768926	0.003739602	3.74E-03	1.12E-03	4.24E-04
1819	458214.7	3768926	0.003780327	3.78E-03	1.13E-03	4.29E-04
1820	458224.7	3768926	0.003819722	3.82E-03	1.14E-03	4.33E-04
1821	458234.7	3768926	0.003857813	3.86E-03	1.16E-03	4.38E-04
1822	458034.7	3768936	0.002847242	2.85E-03	8.53E-04	3.23E-04
1823	458044.7	3768936	0.002894564	2.89E-03	8.67E-04	3.28E-04
1824	458054.7	3768936	0.002943215	2.94E-03	8.82E-04	3.34E-04
1825	458064.7	3768936	0.002993291	2.99E-03	8.97E-04	3.40E-04
1826	458074.7	3768936	0.003043247	3.04E-03	9.11E-04	3.45E-04
1827	458084.7	3768936	0.003093038	3.09E-03	9.26E-04	3.51E-04
1828	458094.7	3768936	0.003142496	3.14E-03	9.41E-04	3.57E-04
1829	458104.7	3768936	0.003191622	3.19E-03	9.56E-04	3.62E-04
1830	458144.7	3768936	0.00338027	3.38E-03	1.01E-03	3.84E-04

1831	458154.7	3768936	0.003421422	3.42E-03	1.02E-03	3.88E-04
1832	458164.7	3768936	0.003462147	3.46E-03	1.04E-03	3.93E-04
1833	458174.7	3768936	0.003503014	3.50E-03	1.05E-03	3.97E-04
1834	458184.7	3768936	0.003544142	3.54E-03	1.06E-03	4.02E-04
1835	458194.7	3768936	0.003584558	3.58E-03	1.07E-03	4.07E-04
1836	458204.7	3768936	0.003625046	3.63E-03	1.09E-03	4.11E-04
1837	458214.7	3768936	0.003665676	3.67E-03	1.10E-03	4.16E-04
1838	458224.7	3768936	0.003705119	3.71E-03	1.11E-03	4.20E-04
1839	458234.7	3768936	0.003743304	3.74E-03	1.12E-03	4.25E-04
1840	458034.7	3768946	0.002748444	2.75E-03	8.23E-04	3.12E-04
1841	458044.7	3768946	0.002796739	2.80E-03	8.38E-04	3.17E-04
1842	458054.7	3768946	0.002845343	2.85E-03	8.52E-04	3.23E-04
1843	458064.7	3768946	0.002893994	2.89E-03	8.67E-04	3.28E-04
1844	458074.7	3768946	0.002942574	2.94E-03	8.81E-04	3.34E-04
1845	458084.7	3768946	0.002991012	2.99E-03	8.96E-04	3.39E-04
1846	458094.7	3768946	0.00303926	3.04E-03	9.10E-04	3.45E-04
1847	458104.7	3768946	0.0030872	3.09E-03	9.25E-04	3.50E-04
1848	458144.7	3768946	0.003270769	3.27E-03	9.80E-04	3.71E-04
1849	458154.7	3768946	0.003309073	3.31E-03	9.91E-04	3.75E-04
1850	458164.7	3768946	0.003346642	3.35E-03	1.00E-03	3.80E-04
1851	458174.7	3768946	0.003387081	3.39E-03	1.01E-03	3.84E-04
1852	458184.7	3768946	0.003430464	3.43E-03	1.03E-03	3.89E-04
1853	458194.7	3768946	0.003472708	3.47E-03	1.04E-03	3.94E-04
1854	458204.7	3768946	0.003514216	3.51E-03	1.05E-03	3.99E-04
1855	458214.7	3768946	0.003554679	3.55E-03	1.06E-03	4.03E-04
1856	458224.7	3768946	0.003594051	3.59E-03	1.08E-03	4.08E-04
1857	458234.7	3768946	0.003632308	3.63E-03	1.09E-03	4.12E-04
1858	458034.7	3768956	0.002657596	2.66E-03	7.96E-04	3.02E-04
1859	458044.7	3768956	0.002704563	2.70E-03	8.10E-04	3.07E-04
1860	458054.7	3768956	0.002751671	2.75E-03	8.24E-04	3.12E-04
1861	458064.7	3768956	0.002798875	2.80E-03	8.38E-04	3.18E-04
1862	458074.7	3768956	0.002846079	2.85E-03	8.52E-04	3.23E-04
1863	458084.7	3768956	0.002892025	2.89E-03	8.66E-04	3.28E-04
1864	458094.7	3768956	0.002936475	2.94E-03	8.80E-04	3.33E-04
1865	458104.7	3768956	0.002980974	2.98E-03	8.93E-04	3.38E-04
1866	458144.7	3768956	0.003160936	3.16E-03	9.47E-04	3.59E-04
1867	458154.7	3768956	0.003200616	3.20E-03	9.59E-04	3.63E-04
1868	458164.7	3768956	0.003239798	3.24E-03	9.70E-04	3.68E-04
1869	458174.7	3768956	0.003281045	3.28E-03	9.83E-04	3.72E-04
1870	458184.7	3768956	0.003323859	3.32E-03	9.96E-04	3.77E-04
1871	458194.7	3768956	0.003365912	3.37E-03	1.01E-03	3.82E-04
1872	458204.7	3768956	0.003407064	3.41E-03	1.02E-03	3.87E-04
1873	458214.7	3768956	0.00344729	3.45E-03	1.03E-03	3.91E-04
1874	458224.7	3768956	0.00348652	3.49E-03	1.04E-03	3.96E-04
1875	458234.7	3768956	0.003523732	3.52E-03	1.06E-03	4.00E-04
1876	458034.7	3768966	0.002570926	2.57E-03	7.70E-04	2.92E-04
1877	458044.7	3768966	0.002616373	2.62E-03	7.84E-04	2.97E-04

1878	458054.7	3768966	0.002662011	2.66E-03	7.97E-04	3.02E-04
1879	458064.7	3768966	0.00270779	2.71E-03	8.11E-04	3.07E-04
1880	458074.7	3768966	0.002753594	2.75E-03	8.25E-04	3.12E-04
1881	458084.7	3768966	0.002796905	2.80E-03	8.38E-04	3.17E-04
1882	458094.7	3768966	0.002837654	2.84E-03	8.50E-04	3.22E-04
1883	458104.7	3768966	0.002878521	2.88E-03	8.62E-04	3.27E-04
1884	458144.7	3768966	0.003054757	3.05E-03	9.15E-04	3.47E-04
1885	458154.7	3768966	0.003096147	3.10E-03	9.27E-04	3.51E-04
1886	458164.7	3768966	0.003137298	3.14E-03	9.40E-04	3.56E-04
1887	458174.7	3768966	0.003178925	3.18E-03	9.52E-04	3.61E-04
1888	458184.7	3768966	0.003221216	3.22E-03	9.65E-04	3.65E-04
1889	458194.7	3768966	0.003262748	3.26E-03	9.77E-04	3.70E-04
1890	458204.7	3768966	0.00330352	3.30E-03	9.89E-04	3.75E-04
1891	458214.7	3768966	0.003343414	3.34E-03	1.00E-03	3.79E-04
1892	458224.7	3768966	0.003382382	3.38E-03	1.01E-03	3.84E-04
1893	458234.7	3768966	0.003418361	3.42E-03	1.02E-03	3.88E-04
1894	458034.7	3768976	0.002488052	2.49E-03	7.45E-04	2.82E-04
1895	458044.7	3768976	0.002531981	2.53E-03	7.58E-04	2.87E-04
1896	458054.7	3768976	0.002576171	2.58E-03	7.72E-04	2.92E-04
1897	458064.7	3768976	0.002620527	2.62E-03	7.85E-04	2.97E-04
1898	458074.7	3768976	0.002665001	2.67E-03	7.98E-04	3.02E-04
1899	458084.7	3768976	0.002705702	2.71E-03	8.10E-04	3.07E-04
1900	458094.7	3768976	0.002743104	2.74E-03	8.22E-04	3.11E-04
1901	458104.7	3768976	0.002780293	2.78E-03	8.33E-04	3.15E-04
1902	458144.7	3768976	0.002952566	2.95E-03	8.84E-04	3.35E-04
1903	458154.7	3768976	0.002995783	3.00E-03	8.97E-04	3.40E-04
1904	458164.7	3768976	0.003038287	3.04E-03	9.10E-04	3.45E-04
1905	458174.7	3768976	0.003080531	3.08E-03	9.23E-04	3.50E-04
1906	458184.7	3768976	0.003122133	3.12E-03	9.35E-04	3.54E-04
1907	458194.7	3768976	0.003163167	3.16E-03	9.47E-04	3.59E-04
1908	458204.7	3768976	0.003203417	3.20E-03	9.59E-04	3.63E-04
1909	458214.7	3768976	0.003242955	3.24E-03	9.71E-04	3.68E-04
1910	458224.7	3768976	0.003281638	3.28E-03	9.83E-04	3.72E-04
1911	458234.7	3768976	0.003316264	3.32E-03	9.93E-04	3.76E-04
1912	458034.7	3768986	0.002405298	2.41E-03	7.20E-04	2.73E-04
1913	458044.7	3768986	0.002445595	2.45E-03	7.32E-04	2.77E-04
1914	458054.7	3768986	0.002487032	2.49E-03	7.45E-04	2.82E-04
1915	458064.7	3768986	0.002529988	2.53E-03	7.58E-04	2.87E-04
1916	458074.7	3768986	0.002573109	2.57E-03	7.71E-04	2.92E-04
1917	458084.7	3768986	0.002613953	2.61E-03	7.83E-04	2.97E-04
1918	458094.7	3768986	0.002652233	2.65E-03	7.94E-04	3.01E-04
1919	458104.7	3768986	0.002690513	2.69E-03	8.06E-04	3.05E-04
1920	458144.7	3768986	0.002859962	2.86E-03	8.57E-04	3.24E-04
1921	458154.7	3768986	0.002902253	2.90E-03	8.69E-04	3.29E-04
1922	458164.7	3768986	0.002944188	2.94E-03	8.82E-04	3.34E-04
1923	458174.7	3768986	0.002984628	2.98E-03	8.94E-04	3.39E-04
1924	458184.7	3768986	0.003023383	3.02E-03	9.06E-04	3.43E-04

1925	458194.7	3768986	0.003061806	3.06E-03	9.17E-04	3.47E-04
1926	458204.7	3768986	0.003100489	3.10E-03	9.29E-04	3.52E-04
1927	458214.7	3768986	0.003139648	3.14E-03	9.40E-04	3.56E-04
1928	458224.7	3768986	0.003178095	3.18E-03	9.52E-04	3.61E-04
1929	458234.7	3768986	0.003213693	3.21E-03	9.63E-04	3.65E-04
1930	458034.7	3768996	0.002325984	2.33E-03	6.97E-04	2.64E-04
1931	458044.7	3768996	0.002362603	2.36E-03	7.08E-04	2.68E-04
1932	458054.7	3768996	0.002401595	2.40E-03	7.19E-04	2.72E-04
1933	458064.7	3768996	0.002443151	2.44E-03	7.32E-04	2.77E-04
1934	458074.7	3768996	0.002484943	2.48E-03	7.44E-04	2.82E-04
1935	458084.7	3768996	0.002525597	2.53E-03	7.56E-04	2.87E-04
1936	458094.7	3768996	0.002565088	2.57E-03	7.68E-04	2.91E-04
1937	458104.7	3768996	0.002604839	2.60E-03	7.80E-04	2.96E-04
1938	458144.7	3768996	0.002771084	2.77E-03	8.30E-04	3.14E-04
1939	458154.7	3768996	0.002812474	2.81E-03	8.42E-04	3.19E-04
1940	458164.7	3768996	0.002853531	2.85E-03	8.55E-04	3.24E-04
1941	458174.7	3768996	0.002892001	2.89E-03	8.66E-04	3.28E-04
1942	458184.7	3768996	0.002927884	2.93E-03	8.77E-04	3.32E-04
1943	458194.7	3768996	0.002963601	2.96E-03	8.88E-04	3.36E-04
1944	458204.7	3768996	0.003000766	3.00E-03	8.99E-04	3.40E-04
1945	458214.7	3768996	0.003039545	3.04E-03	9.10E-04	3.45E-04
1946	458224.7	3768996	0.003077659	3.08E-03	9.22E-04	3.49E-04
1947	458234.7	3768996	0.003113969	3.11E-03	9.33E-04	3.53E-04
1948	458034.7	3769006	0.002250349	2.25E-03	6.74E-04	2.55E-04
1949	458044.7	3769006	0.002283266	2.28E-03	6.84E-04	2.59E-04
1950	458054.7	3769006	0.002319932	2.32E-03	6.95E-04	2.63E-04
1951	458064.7	3769006	0.002360111	2.36E-03	7.07E-04	2.68E-04
1952	458074.7	3769006	0.002400551	2.40E-03	7.19E-04	2.72E-04
1953	458084.7	3769006	0.002440991	2.44E-03	7.31E-04	2.77E-04
1954	458094.7	3769006	0.00248174	2.48E-03	7.43E-04	2.82E-04
1955	458104.7	3769006	0.002522417	2.52E-03	7.56E-04	2.86E-04
1956	458144.7	3769006	0.002685601	2.69E-03	8.04E-04	3.05E-04
1957	458154.7	3769006	0.00272604	2.73E-03	8.16E-04	3.09E-04
1958	458164.7	3769006	0.002766219	2.77E-03	8.29E-04	3.14E-04
1959	458174.7	3769006	0.002802767	2.80E-03	8.39E-04	3.18E-04
1960	458184.7	3769006	0.002836016	2.84E-03	8.49E-04	3.22E-04
1961	458194.7	3769006	0.002868791	2.87E-03	8.59E-04	3.25E-04
1962	458204.7	3769006	0.00290446	2.90E-03	8.70E-04	3.30E-04
1963	458214.7	3769006	0.002942764	2.94E-03	8.81E-04	3.34E-04
1964	458224.7	3769006	0.002980475	2.98E-03	8.93E-04	3.38E-04
1965	458234.7	3769006	0.003017403	3.02E-03	9.04E-04	3.42E-04
1966	458034.7	3769016	0.002177847	2.18E-03	6.52E-04	2.47E-04
1967	458044.7	3769016	0.002211547	2.21E-03	6.62E-04	2.51E-04
1968	458054.7	3769016	0.002247928	2.25E-03	6.73E-04	2.55E-04
1969	458064.7	3769016	0.002286802	2.29E-03	6.85E-04	2.59E-04
1970	458074.7	3769016	0.002325913	2.33E-03	6.97E-04	2.64E-04
1971	458084.7	3769016	0.002365285	2.37E-03	7.08E-04	2.68E-04

1972	458094.7	3769016	0.002404847	2.40E-03	7.20E-04	2.73E-04
1973	458104.7	3769016	0.00244448	2.44E-03	7.32E-04	2.77E-04
1974	458144.7	3769016	0.002597055	2.60E-03	7.78E-04	2.95E-04
1975	458154.7	3769016	0.002636593	2.64E-03	7.90E-04	2.99E-04
1976	458164.7	3769016	0.002675918	2.68E-03	8.01E-04	3.04E-04
1977	458174.7	3769016	0.002712869	2.71E-03	8.13E-04	3.08E-04
1978	458184.7	3769016	0.002747281	2.75E-03	8.23E-04	3.12E-04
1979	458194.7	3769016	0.002781337	2.78E-03	8.33E-04	3.16E-04
1980	458204.7	3769016	0.002817386	2.82E-03	8.44E-04	3.20E-04
1981	458214.7	3769016	0.002855073	2.86E-03	8.55E-04	3.24E-04
1982	458224.7	3769016	0.002892262	2.89E-03	8.66E-04	3.28E-04
1983	458234.7	3769016	0.002928928	2.93E-03	8.77E-04	3.32E-04
1984	458034.7	3769026	0.002108525	2.11E-03	6.32E-04	2.39E-04
1985	458044.7	3769026	0.002143293	2.14E-03	6.42E-04	2.43E-04
1986	458054.7	3769026	0.002179366	2.18E-03	6.53E-04	2.47E-04
1987	458064.7	3769026	0.00221691	2.22E-03	6.64E-04	2.52E-04
1988	458074.7	3769026	0.002254787	2.25E-03	6.75E-04	2.56E-04
1989	458084.7	3769026	0.002292901	2.29E-03	6.87E-04	2.60E-04
1990	458094.7	3769026	0.002331253	2.33E-03	6.98E-04	2.64E-04
1991	458104.7	3769026	0.002369723	2.37E-03	7.10E-04	2.69E-04
1992	458144.7	3769026	0.002511785	2.51E-03	7.52E-04	2.85E-04
1993	458154.7	3769026	0.00255035	2.55E-03	7.64E-04	2.89E-04
1994	458164.7	3769026	0.00258882	2.59E-03	7.75E-04	2.94E-04
1995	458174.7	3769026	0.002625937	2.63E-03	7.87E-04	2.98E-04
1996	458184.7	3769026	0.002661702	2.66E-03	7.97E-04	3.02E-04
1997	458194.7	3769026	0.002697419	2.70E-03	8.08E-04	3.06E-04
1998	458204.7	3769026	0.00273373	2.73E-03	8.19E-04	3.10E-04
1999	458214.7	3769026	0.0027708	2.77E-03	8.30E-04	3.14E-04
2000	458224.7	3769026	0.002807419	2.81E-03	8.41E-04	3.19E-04
2001	458234.7	3769026	0.002843539	2.84E-03	8.52E-04	3.23E-04
2002	458034.7	3769036	0.002042406	2.04E-03	6.12E-04	2.32E-04
2003	458044.7	3769036	0.002077744	2.08E-03	6.22E-04	2.36E-04
2004	458054.7	3769036	0.002113675	2.11E-03	6.33E-04	2.40E-04
2005	458064.7	3769036	0.002149961	2.15E-03	6.44E-04	2.44E-04
2006	458074.7	3769036	0.00218658	2.19E-03	6.55E-04	2.48E-04
2007	458084.7	3769036	0.002223508	2.22E-03	6.66E-04	2.52E-04
2008	458094.7	3769036	0.002260625	2.26E-03	6.77E-04	2.56E-04
2009	458104.7	3769036	0.00229798	2.30E-03	6.88E-04	2.61E-04
2010	458034.7	3769046	0.001981794	1.98E-03	5.94E-04	2.25E-04
2011	458044.7	3769046	0.002016064	2.02E-03	6.04E-04	2.29E-04
2012	458054.7	3769046	0.002049835	2.05E-03	6.14E-04	2.33E-04
2013	458064.7	3769046	0.002082917	2.08E-03	6.24E-04	2.36E-04
2014	458074.7	3769046	0.002116475	2.12E-03	6.34E-04	2.40E-04
2015	458084.7	3769046	0.002151077	2.15E-03	6.44E-04	2.44E-04
2016	458094.7	3769046	0.002187031	2.19E-03	6.55E-04	2.48E-04
2017	458104.7	3769046	0.002223199	2.22E-03	6.66E-04	2.52E-04
2018	458034.7	3769056	0.001923911	1.92E-03	5.76E-04	2.18E-04

2019	458044.7	3769056	0.001956946	1.96E-03	5.86E-04	2.22E-04
2020	458054.7	3769056	0.00198851	1.99E-03	5.96E-04	2.26E-04
2021	458064.7	3769056	0.002018508	2.02E-03	6.05E-04	2.29E-04
2022	458074.7	3769056	0.002049004	2.05E-03	6.14E-04	2.32E-04
2023	458084.7	3769056	0.002081541	2.08E-03	6.23E-04	2.36E-04
2024	458094.7	3769056	0.002116333	2.12E-03	6.34E-04	2.40E-04
2025	458104.7	3769056	0.002151338	2.15E-03	6.44E-04	2.44E-04
2026	458034.7	3769066	0.001868448	1.87E-03	5.60E-04	2.12E-04
2027	458044.7	3769066	0.001900297	1.90E-03	5.69E-04	2.16E-04
2028	458054.7	3769066	0.001929749	1.93E-03	5.78E-04	2.19E-04
2029	458064.7	3769066	0.001956993	1.96E-03	5.86E-04	2.22E-04
2030	458074.7	3769066	0.001984381	1.98E-03	5.94E-04	2.25E-04
2031	458084.7	3769066	0.002014972	2.01E-03	6.04E-04	2.29E-04
2032	458094.7	3769066	0.002048553	2.05E-03	6.14E-04	2.32E-04
2033	458104.7	3769066	0.002082466	2.08E-03	6.24E-04	2.36E-04
2034	458034.7	3769076	0.001812725	1.81E-03	5.43E-04	2.06E-04
2035	458044.7	3769076	0.001841797	1.84E-03	5.52E-04	2.09E-04
2036	458054.7	3769076	0.001870157	1.87E-03	5.60E-04	2.12E-04
2037	458064.7	3769076	0.0018979	1.90E-03	5.68E-04	2.15E-04
2038	458074.7	3769076	0.001925975	1.93E-03	5.77E-04	2.19E-04
2039	458084.7	3769076	0.001956329	1.96E-03	5.86E-04	2.22E-04
2040	458094.7	3769076	0.001988842	1.99E-03	5.96E-04	2.26E-04
2041	458104.7	3769076	0.002021617	2.02E-03	6.06E-04	2.29E-04
2042	458034.7	3769086	0.001759232	1.76E-03	5.27E-04	2.00E-04
2043	458044.7	3769086	0.001785527	1.79E-03	5.35E-04	2.03E-04
2044	458054.7	3769086	0.00181282	1.81E-03	5.43E-04	2.06E-04
2045	458064.7	3769086	0.001841275	1.84E-03	5.51E-04	2.09E-04
2046	458074.7	3769086	0.001870276	1.87E-03	5.60E-04	2.12E-04
2047	458084.7	3769086	0.001900392	1.90E-03	5.69E-04	2.16E-04
2048	458094.7	3769086	0.001931837	1.93E-03	5.79E-04	2.19E-04
2049	458104.7	3769086	0.001963567	1.96E-03	5.88E-04	2.23E-04
2050	458034.7	3769096	0.00170816	1.71E-03	5.12E-04	1.94E-04
2051	458044.7	3769096	0.001731655	1.73E-03	5.19E-04	1.96E-04
2052	458054.7	3769096	0.00175795	1.76E-03	5.27E-04	1.99E-04
2053	458064.7	3769096	0.001787165	1.79E-03	5.35E-04	2.03E-04
2054	458074.7	3769096	0.001816688	1.82E-03	5.44E-04	2.06E-04
2055	458084.7	3769096	0.001846686	1.85E-03	5.53E-04	2.10E-04
2056	458094.7	3769096	0.001877087	1.88E-03	5.62E-04	2.13E-04
2057	458104.7	3769096	0.001907796	1.91E-03	5.71E-04	2.16E-04
2058	458034.7	3769106	0.001659105	1.66E-03	4.97E-04	1.88E-04
2059	458044.7	3769106	0.001683122	1.68E-03	5.04E-04	1.91E-04
2060	458054.7	3769106	0.001709323	1.71E-03	5.12E-04	1.94E-04
2061	458064.7	3769106	0.001737541	1.74E-03	5.20E-04	1.97E-04
2062	458074.7	3769106	0.001766138	1.77E-03	5.29E-04	2.00E-04
2063	458084.7	3769106	0.001795163	1.80E-03	5.38E-04	2.04E-04
2064	458094.7	3769106	0.00182452	1.82E-03	5.46E-04	2.07E-04
2065	458104.7	3769106	0.001854233	1.85E-03	5.55E-04	2.10E-04

2066	458034.7	3769116	0.001612068	1.61E-03	4.83E-04	1.83E-04
2067	458044.7	3769116	0.001636892	1.64E-03	4.90E-04	1.86E-04
2068	458054.7	3769116	0.001662807	1.66E-03	4.98E-04	1.89E-04
2069	458064.7	3769116	0.001690028	1.69E-03	5.06E-04	1.92E-04
2070	458074.7	3769116	0.001717629	1.72E-03	5.14E-04	1.95E-04
2071	458084.7	3769116	0.001745681	1.75E-03	5.23E-04	1.98E-04
2072	458094.7	3769116	0.001774041	1.77E-03	5.31E-04	2.01E-04
2073	458104.7	3769116	0.001802757	1.80E-03	5.40E-04	2.05E-04
2074	458034.7	3769126	0.001567118	1.57E-03	4.69E-04	1.78E-04
2075	458044.7	3769126	0.00159237	1.59E-03	4.77E-04	1.81E-04
2076	458054.7	3769126	0.001618167	1.62E-03	4.85E-04	1.84E-04
2077	458064.7	3769126	0.001644415	1.64E-03	4.93E-04	1.87E-04
2078	458074.7	3769126	0.00167109	1.67E-03	5.01E-04	1.90E-04
2079	458084.7	3769126	0.001698121	1.70E-03	5.09E-04	1.93E-04
2080	458094.7	3769126	0.001725579	1.73E-03	5.17E-04	1.96E-04
2081	458104.7	3769126	0.001753322	1.75E-03	5.25E-04	1.99E-04
2082	458034.7	3769136	0.001525967	1.53E-03	4.57E-04	1.73E-04
2083	458044.7	3769136	0.001550411	1.55E-03	4.64E-04	1.76E-04
2084	458054.7	3769136	0.001575306	1.58E-03	4.72E-04	1.79E-04
2085	458064.7	3769136	0.001600605	1.60E-03	4.79E-04	1.82E-04
2086	458074.7	3769136	0.001626354	1.63E-03	4.87E-04	1.85E-04
2087	458084.7	3769136	0.001651772	1.65E-03	4.95E-04	1.87E-04
2088	458094.7	3769136	0.001676738	1.68E-03	5.02E-04	1.90E-04
2089	458104.7	3769136	0.001702156	1.70E-03	5.10E-04	1.93E-04
2090	458034.7	3769146	0.001486595	1.49E-03	4.45E-04	1.69E-04
2091	458044.7	3769146	0.001510113	1.51E-03	4.52E-04	1.71E-04
2092	458054.7	3769146	0.001534131	1.53E-03	4.59E-04	1.74E-04
2093	458064.7	3769146	0.001558527	1.56E-03	4.67E-04	1.77E-04
2094	458074.7	3769146	0.001583375	1.58E-03	4.74E-04	1.80E-04
2095	458084.7	3769146	0.001607107	1.61E-03	4.81E-04	1.82E-04
2096	458094.7	3769146	0.001629724	1.63E-03	4.88E-04	1.85E-04
2097	458104.7	3769146	0.001652792	1.65E-03	4.95E-04	1.88E-04
2098	458034.7	3769156	0.001448742	1.45E-03	4.34E-04	1.64E-04
2099	458044.7	3769156	0.00147143	1.47E-03	4.41E-04	1.67E-04
2100	458054.7	3769156	0.001494545	1.49E-03	4.48E-04	1.70E-04
2101	458064.7	3769156	0.001518111	1.52E-03	4.55E-04	1.72E-04
2102	458074.7	3769156	0.001542057	1.54E-03	4.62E-04	1.75E-04
2103	458084.7	3769156	0.001564247	1.56E-03	4.69E-04	1.77E-04
2104	458094.7	3769156	0.001584728	1.58E-03	4.75E-04	1.80E-04
2105	458104.7	3769156	0.001605422	1.61E-03	4.81E-04	1.82E-04
2106	458034.7	3769166	0.001412336	1.41E-03	4.23E-04	1.60E-04
2107	458044.7	3769166	0.001434241	1.43E-03	4.30E-04	1.63E-04
2108	458054.7	3769166	0.001455909	1.46E-03	4.36E-04	1.65E-04
2109	458064.7	3769166	0.001477315	1.48E-03	4.42E-04	1.68E-04
2110	458074.7	3769166	0.001499149	1.50E-03	4.49E-04	1.70E-04
2111	458084.7	3769166	0.001520508	1.52E-03	4.55E-04	1.73E-04
2112	458094.7	3769166	0.001541416	1.54E-03	4.62E-04	1.75E-04

2113	458104.7	3769166	0.001562586	1.56E-03	4.68E-04	1.77E-04
2114	458034.7	3769176	0.001377378	1.38E-03	4.13E-04	1.56E-04
2115	458044.7	3769176	0.001398476	1.40E-03	4.19E-04	1.59E-04
2116	458054.7	3769176	0.001418696	1.42E-03	4.25E-04	1.61E-04
2117	458064.7	3769176	0.001437967	1.44E-03	4.31E-04	1.63E-04
2118	458074.7	3769176	0.00145776	1.46E-03	4.37E-04	1.65E-04
2119	458084.7	3769176	0.001478265	1.48E-03	4.43E-04	1.68E-04
2120	458094.7	3769176	0.00149979	1.50E-03	4.49E-04	1.70E-04
2121	458104.7	3769176	0.001521719	1.52E-03	4.56E-04	1.73E-04
2122	458034.7	3769186	0.001343749	1.34E-03	4.02E-04	1.52E-04
2123	458044.7	3769186	0.001364041	1.36E-03	4.09E-04	1.55E-04
2124	458054.7	3769186	0.001382908	1.38E-03	4.14E-04	1.57E-04
2125	458064.7	3769186	0.001400327	1.40E-03	4.19E-04	1.59E-04
2126	458074.7	3769186	0.001417984	1.42E-03	4.25E-04	1.61E-04
2127	458084.7	3769186	0.001437801	1.44E-03	4.31E-04	1.63E-04
2128	458094.7	3769186	0.001459872	1.46E-03	4.37E-04	1.66E-04
2129	458104.7	3769186	0.001482299	1.48E-03	4.44E-04	1.68E-04
2130	458034.7	3769196	0.001308009	1.31E-03	3.92E-04	1.48E-04
2131	458044.7	3769196	0.00132754	1.33E-03	3.98E-04	1.51E-04
2132	458054.7	3769196	0.001346265	1.35E-03	4.03E-04	1.53E-04
2133	458064.7	3769196	0.001364088	1.36E-03	4.09E-04	1.55E-04
2134	458074.7	3769196	0.001382149	1.38E-03	4.14E-04	1.57E-04
2135	458084.7	3769196	0.001401941	1.40E-03	4.20E-04	1.59E-04
2136	458094.7	3769196	0.0014233	1.42E-03	4.26E-04	1.61E-04
2137	458104.7	3769196	0.001445016	1.45E-03	4.33E-04	1.64E-04
2138	458034.7	3769206	0.001273597	1.27E-03	3.81E-04	1.44E-04
2139	458044.7	3769206	0.001292393	1.29E-03	3.87E-04	1.47E-04
2140	458054.7	3769206	0.001310928	1.31E-03	3.93E-04	1.49E-04
2141	458064.7	3769206	0.001329202	1.33E-03	3.98E-04	1.51E-04
2142	458074.7	3769206	0.00134795	1.35E-03	4.04E-04	1.53E-04
2143	458084.7	3769206	0.001367529	1.37E-03	4.10E-04	1.55E-04
2144	458034.7	3769216	0.001240609	1.24E-03	3.72E-04	1.41E-04
2145	458044.7	3769216	0.001258645	1.26E-03	3.77E-04	1.43E-04
2146	458054.7	3769216	0.00127699	1.28E-03	3.82E-04	1.45E-04
2147	458064.7	3769216	0.001295786	1.30E-03	3.88E-04	1.47E-04
2148	458074.7	3769216	0.001314915	1.31E-03	3.94E-04	1.49E-04
2149	458084.7	3769216	0.001334446	1.33E-03	4.00E-04	1.51E-04
2150	458034.7	3769256	0.001129446	1.13E-03	3.38E-04	1.28E-04
2151	458044.7	3769256	0.001145015	1.15E-03	3.43E-04	1.30E-04
2152	458054.7	3769256	0.001160939	1.16E-03	3.48E-04	1.32E-04
2153	458064.7	3769256	0.001177196	1.18E-03	3.53E-04	1.34E-04
2154	458074.7	3769256	0.001193809	1.19E-03	3.58E-04	1.35E-04
2155	458084.7	3769256	0.001209733	1.21E-03	3.62E-04	1.37E-04
2156	458094.7	3769256	0.001224851	1.22E-03	3.67E-04	1.39E-04
2157	458104.7	3769256	0.001240205	1.24E-03	3.71E-04	1.41E-04
2158	458194.7	3769256	0.001407637	1.41E-03	4.22E-04	1.60E-04
2159	458204.7	3769256	0.001426101	1.43E-03	4.27E-04	1.62E-04

2160	458214.7	3769256	0.001444114	1.44E-03	4.33E-04	1.64E-04
2161	458224.7	3769256	0.001462293	1.46E-03	4.38E-04	1.66E-04
2162	458234.7	3769256	0.001483296	1.48E-03	4.44E-04	1.68E-04
2163	458034.7	3769266	0.001102107	1.10E-03	3.30E-04	1.25E-04
2164	458044.7	3769266	0.001117082	1.12E-03	3.35E-04	1.27E-04
2165	458054.7	3769266	0.001132389	1.13E-03	3.39E-04	1.28E-04
2166	458064.7	3769266	0.001148053	1.15E-03	3.44E-04	1.30E-04
2167	458074.7	3769266	0.001164048	1.16E-03	3.49E-04	1.32E-04
2168	458084.7	3769266	0.00117983	1.18E-03	3.53E-04	1.34E-04
2169	458094.7	3769266	0.001195375	1.20E-03	3.58E-04	1.36E-04
2170	458104.7	3769266	0.001211323	1.21E-03	3.63E-04	1.37E-04
2171	458154.7	3769266	0.001296854	1.30E-03	3.88E-04	1.47E-04
2172	458164.7	3769266	0.001317668	1.32E-03	3.95E-04	1.49E-04
2173	458174.7	3769266	0.001336654	1.34E-03	4.00E-04	1.52E-04
2174	458184.7	3769266	0.001353622	1.35E-03	4.05E-04	1.54E-04
2175	458194.7	3769266	0.001370876	1.37E-03	4.11E-04	1.56E-04
2176	458204.7	3769266	0.001388794	1.39E-03	4.16E-04	1.58E-04
2177	458214.7	3769266	0.001407376	1.41E-03	4.22E-04	1.60E-04
2178	458224.7	3769266	0.001426314	1.43E-03	4.27E-04	1.62E-04
2179	458234.7	3769266	0.001446606	1.45E-03	4.33E-04	1.64E-04
2180	458034.7	3769276	0.001075811	1.08E-03	3.22E-04	1.22E-04
2181	458044.7	3769276	0.001090217	1.09E-03	3.27E-04	1.24E-04
2182	458054.7	3769276	0.001104955	1.10E-03	3.31E-04	1.25E-04
2183	458064.7	3769276	0.001120025	1.12E-03	3.35E-04	1.27E-04
2184	458074.7	3769276	0.001135427	1.14E-03	3.40E-04	1.29E-04
2185	458084.7	3769276	0.001151043	1.15E-03	3.45E-04	1.31E-04
2186	458094.7	3769276	0.00116711	1.17E-03	3.50E-04	1.32E-04
2187	458104.7	3769276	0.001183366	1.18E-03	3.54E-04	1.34E-04
2188	458154.7	3769276	0.001264982	1.26E-03	3.79E-04	1.44E-04
2189	458164.7	3769276	0.001286293	1.29E-03	3.85E-04	1.46E-04
2190	458174.7	3769276	0.001304568	1.30E-03	3.91E-04	1.48E-04
2191	458184.7	3769276	0.001320017	1.32E-03	3.95E-04	1.50E-04
2192	458194.7	3769276	0.001335491	1.34E-03	4.00E-04	1.52E-04
2193	458204.7	3769276	0.001352792	1.35E-03	4.05E-04	1.53E-04
2194	458214.7	3769276	0.001372086	1.37E-03	4.11E-04	1.56E-04
2195	458224.7	3769276	0.001391475	1.39E-03	4.17E-04	1.58E-04
2196	458234.7	3769276	0.001411173	1.41E-03	4.23E-04	1.60E-04
2197	458034.7	3769286	0.001052933	1.05E-03	3.15E-04	1.19E-04
2198	458044.7	3769286	0.001066817	1.07E-03	3.20E-04	1.21E-04
2199	458054.7	3769286	0.001080629	1.08E-03	3.24E-04	1.23E-04
2200	458064.7	3769286	0.001094251	1.09E-03	3.28E-04	1.24E-04
2201	458074.7	3769286	0.001108277	1.11E-03	3.32E-04	1.26E-04
2202	458084.7	3769286	0.001123418	1.12E-03	3.36E-04	1.27E-04
2203	458094.7	3769286	0.001139746	1.14E-03	3.41E-04	1.29E-04
2204	458104.7	3769286	0.001156525	1.16E-03	3.46E-04	1.31E-04
2205	458154.7	3769286	0.001234272	1.23E-03	3.70E-04	1.40E-04
2206	458164.7	3769286	0.001253946	1.25E-03	3.76E-04	1.42E-04

2207	458174.7	3769286	0.001271722	1.27E-03	3.81E-04	1.44E-04
2208	458184.7	3769286	0.001287504	1.29E-03	3.86E-04	1.46E-04
2209	458194.7	3769286	0.001303476	1.30E-03	3.90E-04	1.48E-04
2210	458204.7	3769286	0.001320848	1.32E-03	3.96E-04	1.50E-04
2211	458214.7	3769286	0.001339549	1.34E-03	4.01E-04	1.52E-04
2212	458224.7	3769286	0.001358464	1.36E-03	4.07E-04	1.54E-04
2213	458234.7	3769286	0.001377568	1.38E-03	4.13E-04	1.56E-04
2214	458034.7	3769296	0.001030957	1.03E-03	3.09E-04	1.17E-04
2215	458044.7	3769296	0.001044366	1.04E-03	3.13E-04	1.18E-04
2216	458054.7	3769296	0.001057253	1.06E-03	3.17E-04	1.20E-04
2217	458064.7	3769296	0.001069522	1.07E-03	3.20E-04	1.21E-04
2218	458074.7	3769296	0.001082148	1.08E-03	3.24E-04	1.23E-04
2219	458084.7	3769296	0.001096767	1.10E-03	3.28E-04	1.24E-04
2220	458094.7	3769296	0.001113498	1.11E-03	3.34E-04	1.26E-04
2221	458104.7	3769296	0.001130514	1.13E-03	3.39E-04	1.28E-04
2222	458154.7	3769296	0.001204773	1.20E-03	3.61E-04	1.37E-04
2223	458164.7	3769296	0.001222691	1.22E-03	3.66E-04	1.39E-04
2224	458174.7	3769296	0.001239873	1.24E-03	3.71E-04	1.41E-04
2225	458184.7	3769296	0.001256177	1.26E-03	3.76E-04	1.43E-04
2226	458194.7	3769296	0.00127279	1.27E-03	3.81E-04	1.44E-04
2227	458204.7	3769296	0.001290091	1.29E-03	3.86E-04	1.46E-04
2228	458214.7	3769296	0.001308222	1.31E-03	3.92E-04	1.48E-04
2229	458224.7	3769296	0.001326591	1.33E-03	3.97E-04	1.51E-04
2230	458234.7	3769296	0.00134515	1.35E-03	4.03E-04	1.53E-04
2231	458034.7	3769306	0.00100974	1.01E-03	3.02E-04	1.15E-04
2232	458044.7	3769306	0.001022698	1.02E-03	3.06E-04	1.16E-04
2233	458054.7	3769306	0.001034659	1.03E-03	3.10E-04	1.17E-04
2234	458064.7	3769306	0.001045766	1.05E-03	3.13E-04	1.19E-04
2235	458074.7	3769306	0.001056968	1.06E-03	3.17E-04	1.20E-04
2236	458084.7	3769306	0.001071136	1.07E-03	3.21E-04	1.22E-04
2237	458094.7	3769306	0.001088081	1.09E-03	3.26E-04	1.23E-04
2238	458104.7	3769306	0.001105524	1.11E-03	3.31E-04	1.25E-04
2239	458154.7	3769306	0.001176247	1.18E-03	3.52E-04	1.33E-04
2240	458164.7	3769306	0.001192598	1.19E-03	3.57E-04	1.35E-04
2241	458174.7	3769306	0.001209187	1.21E-03	3.62E-04	1.37E-04
2242	458184.7	3769306	0.001226037	1.23E-03	3.67E-04	1.39E-04
2243	458194.7	3769306	0.001243053	1.24E-03	3.72E-04	1.41E-04
2244	458204.7	3769306	0.001260402	1.26E-03	3.78E-04	1.43E-04
2245	458214.7	3769306	0.001277987	1.28E-03	3.83E-04	1.45E-04
2246	458224.7	3769306	0.001295786	1.30E-03	3.88E-04	1.47E-04
2247	458234.7	3769306	0.001313823	1.31E-03	3.94E-04	1.49E-04
2248	458034.7	3769316	0.000986958	9.87E-04	2.96E-04	1.12E-04
2249	458044.7	3769316	0.000999441	9.99E-04	2.99E-04	1.13E-04
2250	458054.7	3769316	0.001010951	1.01E-03	3.03E-04	1.15E-04
2251	458064.7	3769316	0.001021559	1.02E-03	3.06E-04	1.16E-04
2252	458074.7	3769316	0.001032334	1.03E-03	3.09E-04	1.17E-04
2253	458084.7	3769316	0.001045505	1.05E-03	3.13E-04	1.19E-04

2254	458094.7	3769316	0.001061168	1.06E-03	3.18E-04	1.20E-04
2255	458104.7	3769316	0.001077164	1.08E-03	3.23E-04	1.22E-04
2256	458164.7	3769316	0.001163146	1.16E-03	3.48E-04	1.32E-04
2257	458174.7	3769316	0.001179166	1.18E-03	3.53E-04	1.34E-04
2258	458184.7	3769316	0.00119547	1.20E-03	3.58E-04	1.36E-04
2259	458194.7	3769316	0.001212011	1.21E-03	3.63E-04	1.38E-04
2260	458204.7	3769316	0.00122879	1.23E-03	3.68E-04	1.39E-04
2261	458214.7	3769316	0.001245782	1.25E-03	3.73E-04	1.41E-04
2262	458224.7	3769316	0.001263036	1.26E-03	3.78E-04	1.43E-04
2263	458234.7	3769316	0.001280503	1.28E-03	3.84E-04	1.45E-04
2264	458034.7	3769326	0.000964934	9.65E-04	2.89E-04	1.09E-04
2265	458044.7	3769326	0.000976966	9.77E-04	2.93E-04	1.11E-04
2266	458054.7	3769326	0.000988049	9.88E-04	2.96E-04	1.12E-04
2267	458064.7	3769326	0.000998207	9.98E-04	2.99E-04	1.13E-04
2268	458074.7	3769326	0.00100853	1.01E-03	3.02E-04	1.14E-04
2269	458084.7	3769326	0.001020847	1.02E-03	3.06E-04	1.16E-04
2270	458094.7	3769326	0.001035087	1.04E-03	3.10E-04	1.17E-04
2271	458104.7	3769326	0.001049658	1.05E-03	3.14E-04	1.19E-04
2272	458164.7	3769326	0.001134763	1.13E-03	3.40E-04	1.29E-04
2273	458174.7	3769326	0.001150236	1.15E-03	3.45E-04	1.30E-04
2274	458184.7	3769326	0.001165994	1.17E-03	3.49E-04	1.32E-04
2275	458194.7	3769326	0.00118199	1.18E-03	3.54E-04	1.34E-04
2276	458204.7	3769326	0.001198199	1.20E-03	3.59E-04	1.36E-04
2277	458214.7	3769326	0.001214669	1.21E-03	3.64E-04	1.38E-04
2278	458224.7	3769326	0.001231353	1.23E-03	3.69E-04	1.40E-04
2279	458234.7	3769326	0.001248274	1.25E-03	3.74E-04	1.42E-04
2280	458034.7	3769336	0.000943717	9.44E-04	2.83E-04	1.07E-04
2281	458044.7	3769336	0.000955251	9.55E-04	2.86E-04	1.08E-04
2282	458054.7	3769336	0.000965954	9.66E-04	2.89E-04	1.10E-04
2283	458064.7	3769336	0.000975661	9.76E-04	2.92E-04	1.11E-04
2284	458074.7	3769336	0.000985628	9.86E-04	2.95E-04	1.12E-04
2285	458084.7	3769336	0.000997067	9.97E-04	2.99E-04	1.13E-04
2286	458094.7	3769336	0.001009978	1.01E-03	3.03E-04	1.15E-04
2287	458104.7	3769336	0.001023102	1.02E-03	3.06E-04	1.16E-04
2288	458164.7	3769336	0.001107399	1.11E-03	3.32E-04	1.26E-04
2289	458174.7	3769336	0.001122374	1.12E-03	3.36E-04	1.27E-04
2290	458184.7	3769336	0.001137587	1.14E-03	3.41E-04	1.29E-04
2291	458194.7	3769336	0.001153036	1.15E-03	3.45E-04	1.31E-04
2292	458204.7	3769336	0.001168724	1.17E-03	3.50E-04	1.33E-04
2293	458214.7	3769336	0.001184648	1.18E-03	3.55E-04	1.34E-04
2294	458224.7	3769336	0.00120081	1.20E-03	3.60E-04	1.36E-04
2295	458234.7	3769336	0.001217161	1.22E-03	3.65E-04	1.38E-04
2296	458034.7	3769346	0.000924185	9.24E-04	2.77E-04	1.05E-04
2297	458044.7	3769346	0.000934675	9.35E-04	2.80E-04	1.06E-04
2298	458054.7	3769346	0.000944951	9.45E-04	2.83E-04	1.07E-04
2299	458064.7	3769346	0.000955061	9.55E-04	2.86E-04	1.08E-04
2300	458074.7	3769346	0.000965385	9.65E-04	2.89E-04	1.10E-04

2301	458084.7	3769346	0.000976396	9.76E-04	2.92E-04	1.11E-04
2302	458094.7	3769346	0.000988025	9.88E-04	2.96E-04	1.12E-04
2303	458104.7	3769346	0.000999963	1.00E-03	3.00E-04	1.13E-04
2304	458034.7	3769356	0.000905366	9.05E-04	2.71E-04	1.03E-04
2305	458044.7	3769356	0.000914787	9.15E-04	2.74E-04	1.04E-04
2306	458054.7	3769356	0.000924684	9.25E-04	2.77E-04	1.05E-04
2307	458064.7	3769356	0.00093515	9.35E-04	2.80E-04	1.06E-04
2308	458074.7	3769356	0.000945924	9.46E-04	2.83E-04	1.07E-04
2309	458084.7	3769356	0.000956509	9.57E-04	2.86E-04	1.09E-04
2310	458094.7	3769356	0.000966975	9.67E-04	2.90E-04	1.10E-04
2311	458104.7	3769356	0.000977726	9.78E-04	2.93E-04	1.11E-04
2312	458034.7	3769366	0.000887258	8.87E-04	2.66E-04	1.01E-04
2313	458044.7	3769366	0.000895588	8.96E-04	2.68E-04	1.02E-04
2314	458054.7	3769366	0.000905128	9.05E-04	2.71E-04	1.03E-04
2315	458064.7	3769366	0.000915998	9.16E-04	2.74E-04	1.04E-04
2316	458074.7	3769366	0.000927033	9.27E-04	2.78E-04	1.05E-04
2317	458084.7	3769366	0.000937262	9.37E-04	2.81E-04	1.06E-04
2318	458094.7	3769366	0.000946707	9.47E-04	2.84E-04	1.07E-04
2319	458104.7	3769366	0.000956248	9.56E-04	2.86E-04	1.08E-04
2320	458034.7	3769376	0.000870621	8.71E-04	2.61E-04	9.88E-05
2321	458044.7	3769376	0.000878619	8.79E-04	2.63E-04	9.97E-05
2322	458054.7	3769376	0.000887899	8.88E-04	2.66E-04	1.01E-04
2323	458064.7	3769376	0.000898388	8.98E-04	2.69E-04	1.02E-04
2324	458074.7	3769376	0.000909139	9.09E-04	2.72E-04	1.03E-04
2325	458084.7	3769376	0.000919059	9.19E-04	2.75E-04	1.04E-04
2326	458094.7	3769376	0.000928101	9.28E-04	2.78E-04	1.05E-04
2327	458104.7	3769376	0.000937262	9.37E-04	2.81E-04	1.06E-04
2328	458034.7	3769386	0.000854555	8.55E-04	2.56E-04	9.70E-05
2329	458044.7	3769386	0.000862291	8.62E-04	2.58E-04	9.78E-05
2330	458054.7	3769386	0.000871262	8.71E-04	2.61E-04	9.88E-05
2331	458064.7	3769386	0.00088142	8.81E-04	2.64E-04	1.00E-04
2332	458074.7	3769386	0.000891838	8.92E-04	2.67E-04	1.01E-04
2333	458084.7	3769386	0.000901402	9.01E-04	2.70E-04	1.02E-04
2334	458094.7	3769386	0.00091016	9.10E-04	2.73E-04	1.03E-04
2335	458104.7	3769386	0.000919035	9.19E-04	2.75E-04	1.04E-04
2336	458034.7	3769396	0.00083901	8.39E-04	2.51E-04	9.52E-05
2337	458044.7	3769396	0.000846462	8.46E-04	2.54E-04	9.60E-05
2338	458054.7	3769396	0.000855148	8.55E-04	2.56E-04	9.70E-05
2339	458064.7	3769396	0.000864973	8.65E-04	2.59E-04	9.81E-05
2340	458074.7	3769396	0.000875059	8.75E-04	2.62E-04	9.93E-05
2341	458084.7	3769396	0.000884315	8.84E-04	2.65E-04	1.00E-04
2342	458094.7	3769396	0.000892787	8.93E-04	2.67E-04	1.01E-04
2343	458104.7	3769396	0.000901379	9.01E-04	2.70E-04	1.02E-04
2344	458034.7	3769406	0.000823038	8.23E-04	2.47E-04	9.34E-05
2345	458044.7	3769406	0.000830846	8.31E-04	2.49E-04	9.43E-05
2346	458054.7	3769406	0.000839247	8.39E-04	2.51E-04	9.52E-05
2347	458064.7	3769406	0.000848123	8.48E-04	2.54E-04	9.62E-05

2348	458074.7	3769406	0.00085726	8.57E-04	2.57E-04	9.73E-05
2349	458084.7	3769406	0.000866207	8.66E-04	2.59E-04	9.83E-05
2350	458094.7	3769406	0.000874988	8.75E-04	2.62E-04	9.93E-05
2351	458104.7	3769406	0.000883935	8.84E-04	2.65E-04	1.00E-04
2352	458034.7	3769416	0.000807517	8.08E-04	2.42E-04	9.16E-05
2353	458044.7	3769416	0.000815705	8.16E-04	2.44E-04	9.25E-05
2354	458054.7	3769416	0.000823774	8.24E-04	2.47E-04	9.35E-05
2355	458064.7	3769416	0.000831748	8.32E-04	2.49E-04	9.44E-05
2356	458074.7	3769416	0.000839959	8.40E-04	2.52E-04	9.53E-05
2357	458084.7	3769416	0.000848598	8.49E-04	2.54E-04	9.63E-05
2358	458094.7	3769416	0.000857711	8.58E-04	2.57E-04	9.73E-05
2359	458104.7	3769416	0.000867085	8.67E-04	2.60E-04	9.84E-05
2360	458034.7	3769426	0.000792542	7.93E-04	2.37E-04	8.99E-05
2361	458044.7	3769426	0.000800967	8.01E-04	2.40E-04	9.09E-05
2362	458054.7	3769426	0.000808775	8.09E-04	2.42E-04	9.18E-05
2363	458064.7	3769426	0.000815942	8.16E-04	2.44E-04	9.26E-05
2364	458074.7	3769426	0.000823228	8.23E-04	2.47E-04	9.34E-05
2365	458084.7	3769426	0.000831534	8.32E-04	2.49E-04	9.43E-05
2366	458094.7	3769426	0.000841027	8.41E-04	2.52E-04	9.54E-05
2367	458104.7	3769426	0.000850686	8.51E-04	2.55E-04	9.65E-05
2368	458034.7	3769436	0.000778777	7.79E-04	2.33E-04	8.84E-05
2369	458044.7	3769436	0.000786989	7.87E-04	2.36E-04	8.93E-05
2370	458054.7	3769436	0.000794535	7.95E-04	2.38E-04	9.01E-05
2371	458064.7	3769436	0.000801418	8.01E-04	2.40E-04	9.09E-05
2372	458074.7	3769436	0.000808419	8.08E-04	2.42E-04	9.17E-05
2373	458084.7	3769436	0.000816535	8.17E-04	2.45E-04	9.26E-05
2374	458094.7	3769436	0.00082572	8.26E-04	2.47E-04	9.37E-05
2375	458104.7	3769436	0.000835118	8.35E-04	2.50E-04	9.47E-05
2376	458034.7	3769446	0.000765463	7.65E-04	2.29E-04	8.68E-05
2377	458044.7	3769446	0.000773414	7.73E-04	2.32E-04	8.77E-05
2378	458054.7	3769446	0.000780723	7.81E-04	2.34E-04	8.86E-05
2379	458064.7	3769446	0.000787392	7.87E-04	2.36E-04	8.93E-05
2380	458074.7	3769446	0.000794156	7.94E-04	2.38E-04	9.01E-05
2381	458084.7	3769446	0.000802011	8.02E-04	2.40E-04	9.10E-05
2382	458094.7	3769446	0.000810935	8.11E-04	2.43E-04	9.20E-05
2383	458104.7	3769446	0.000820024	8.20E-04	2.46E-04	9.30E-05
2384	458034.7	3769456	0.000752529	7.53E-04	2.25E-04	8.54E-05
2385	458044.7	3769456	0.000760242	7.60E-04	2.28E-04	8.63E-05
2386	458054.7	3769456	0.000767315	7.67E-04	2.30E-04	8.71E-05
2387	458064.7	3769456	0.00077377	7.74E-04	2.32E-04	8.78E-05
2388	458074.7	3769456	0.00078032	7.80E-04	2.34E-04	8.85E-05
2389	458084.7	3769456	0.000787938	7.88E-04	2.36E-04	8.94E-05
2390	458094.7	3769456	0.000796576	7.97E-04	2.39E-04	9.04E-05
2391	458104.7	3769456	0.000805405	8.05E-04	2.41E-04	9.14E-05
2392	458174.7	3769456	0.000873707	8.74E-04	2.62E-04	9.91E-05
2393	458184.7	3769456	0.000886095	8.86E-04	2.65E-04	1.01E-04
2394	458194.7	3769456	0.000898792	8.99E-04	2.69E-04	1.02E-04

2395	458204.7	3769456	0.000909566	9.10E-04	2.72E-04	1.03E-04
2396	458214.7	3769456	0.000918608	9.19E-04	2.75E-04	1.04E-04
2397	458224.7	3769456	0.000927674	9.28E-04	2.78E-04	1.05E-04
2398	458234.7	3769456	0.000937926	9.38E-04	2.81E-04	1.06E-04
2399	458034.7	3769466	0.000739951	7.40E-04	2.22E-04	8.40E-05
2400	458044.7	3769466	0.000747451	7.47E-04	2.24E-04	8.48E-05
2401	458054.7	3769466	0.000754285	7.54E-04	2.26E-04	8.56E-05
2402	458064.7	3769466	0.000760551	7.61E-04	2.28E-04	8.63E-05
2403	458074.7	3769466	0.000766887	7.67E-04	2.30E-04	8.70E-05
2404	458084.7	3769466	0.000774007	7.74E-04	2.32E-04	8.78E-05
2405	458094.7	3769466	0.000781815	7.82E-04	2.34E-04	8.87E-05
2406	458104.7	3769466	0.000789837	7.90E-04	2.37E-04	8.96E-05
2407	458174.7	3769466	0.000857165	8.57E-04	2.57E-04	9.72E-05
2408	458184.7	3769466	0.000868533	8.69E-04	2.60E-04	9.85E-05
2409	458194.7	3769466	0.000880209	8.80E-04	2.64E-04	9.99E-05
2410	458204.7	3769466	0.000890699	8.91E-04	2.67E-04	1.01E-04
2411	458214.7	3769466	0.000899978	9.00E-04	2.70E-04	1.02E-04
2412	458224.7	3769466	0.0009094	9.09E-04	2.72E-04	1.03E-04
2413	458234.7	3769466	0.000919724	9.20E-04	2.75E-04	1.04E-04
2414	458034.7	3769476	0.000727753	7.28E-04	2.18E-04	8.26E-05
2415	458044.7	3769476	0.000735015	7.35E-04	2.20E-04	8.34E-05
2416	458054.7	3769476	0.000741636	7.42E-04	2.22E-04	8.41E-05
2417	458064.7	3769476	0.000747688	7.48E-04	2.24E-04	8.48E-05
2418	458074.7	3769476	0.000753835	7.54E-04	2.26E-04	8.55E-05
2419	458084.7	3769476	0.000760432	7.60E-04	2.28E-04	8.63E-05
2420	458094.7	3769476	0.000767457	7.67E-04	2.30E-04	8.71E-05
2421	458104.7	3769476	0.000774672	7.75E-04	2.32E-04	8.79E-05
2422	458174.7	3769476	0.000841075	8.41E-04	2.52E-04	9.54E-05
2423	458184.7	3769476	0.000851541	8.52E-04	2.55E-04	9.66E-05
2424	458194.7	3769476	0.000862149	8.62E-04	2.58E-04	9.78E-05
2425	458204.7	3769476	0.00087233	8.72E-04	2.61E-04	9.90E-05
2426	458214.7	3769476	0.000881942	8.82E-04	2.64E-04	1.00E-04
2427	458224.7	3769476	0.000891814	8.92E-04	2.67E-04	1.01E-04
2428	458234.7	3769476	0.000902114	9.02E-04	2.70E-04	1.02E-04
2429	458034.7	3769486	0.000715886	7.16E-04	2.14E-04	8.12E-05
2430	458044.7	3769486	0.000722911	7.23E-04	2.17E-04	8.20E-05
2431	458054.7	3769486	0.000729343	7.29E-04	2.18E-04	8.27E-05
2432	458064.7	3769486	0.000735205	7.35E-04	2.20E-04	8.34E-05
2433	458074.7	3769486	0.000741138	7.41E-04	2.22E-04	8.41E-05
2434	458084.7	3769486	0.000747284	7.47E-04	2.24E-04	8.48E-05
2435	458094.7	3769486	0.000753573	7.54E-04	2.26E-04	8.55E-05
2436	458104.7	3769486	0.000759957	7.60E-04	2.28E-04	8.62E-05
2437	458174.7	3769486	0.000825459	8.25E-04	2.47E-04	9.37E-05
2438	458184.7	3769486	0.000835023	8.35E-04	2.50E-04	9.47E-05
2439	458194.7	3769486	0.000844682	8.45E-04	2.53E-04	9.58E-05
2440	458204.7	3769486	0.000854531	8.55E-04	2.56E-04	9.70E-05
2441	458214.7	3769486	0.000864546	8.65E-04	2.59E-04	9.81E-05

2442	458224.7	3769486	0.000874703	8.75E-04	2.62E-04	9.92E-05
2443	458234.7	3769486	0.000885051	8.85E-04	2.65E-04	1.00E-04
2444	458034.7	3769496	0.000704353	7.04E-04	2.11E-04	7.99E-05
2445	458044.7	3769496	0.000711164	7.11E-04	2.13E-04	8.07E-05
2446	458054.7	3769496	0.000717405	7.17E-04	2.15E-04	8.14E-05
2447	458064.7	3769496	0.000723077	7.23E-04	2.17E-04	8.20E-05
2448	458074.7	3769496	0.000728821	7.29E-04	2.18E-04	8.27E-05
2449	458084.7	3769496	0.000734516	7.35E-04	2.20E-04	8.33E-05
2450	458094.7	3769496	0.00074007	7.40E-04	2.22E-04	8.40E-05
2451	458104.7	3769496	0.000745718	7.46E-04	2.23E-04	8.46E-05
2452	458174.7	3769496	0.00081065	8.11E-04	2.43E-04	9.20E-05
2453	458184.7	3769496	0.000819858	8.20E-04	2.46E-04	9.30E-05
2454	458194.7	3769496	0.000829256	8.29E-04	2.48E-04	9.41E-05
2455	458204.7	3769496	0.000838796	8.39E-04	2.51E-04	9.52E-05
2456	458214.7	3769496	0.00084855	8.49E-04	2.54E-04	9.63E-05
2457	458224.7	3769496	0.000858447	8.58E-04	2.57E-04	9.74E-05
2458	458234.7	3769496	0.000868224	8.68E-04	2.60E-04	9.85E-05
2459	458034.7	3769506	0.000693127	6.93E-04	2.08E-04	7.86E-05
2460	458044.7	3769506	0.000699725	7.00E-04	2.10E-04	7.94E-05
2461	458054.7	3769506	0.000705777	7.06E-04	2.11E-04	8.01E-05
2462	458064.7	3769506	0.000711282	7.11E-04	2.13E-04	8.07E-05
2463	458074.7	3769506	0.00071686	7.17E-04	2.15E-04	8.13E-05
2464	458084.7	3769506	0.000722104	7.22E-04	2.16E-04	8.19E-05
2465	458094.7	3769506	0.000726946	7.27E-04	2.18E-04	8.25E-05
2466	458204.7	3769506	0.000823608	8.24E-04	2.47E-04	9.34E-05
2467	458214.7	3769506	0.000833053	8.33E-04	2.50E-04	9.45E-05
2468	458224.7	3769506	0.000842665	8.43E-04	2.52E-04	9.56E-05
2469	458234.7	3769506	0.000851825	8.52E-04	2.55E-04	9.66E-05
2470	458034.7	3769516	0.00068221	6.82E-04	2.04E-04	7.74E-05
2471	458044.7	3769516	0.000688618	6.89E-04	2.06E-04	7.81E-05
2472	458054.7	3769516	0.00069448	6.94E-04	2.08E-04	7.88E-05
2473	458064.7	3769516	0.000699796	7.00E-04	2.10E-04	7.94E-05
2474	458074.7	3769516	0.000705207	7.05E-04	2.11E-04	8.00E-05
2475	458084.7	3769516	0.000710025	7.10E-04	2.13E-04	8.06E-05
2476	458094.7	3769516	0.000714225	7.14E-04	2.14E-04	8.10E-05
2477	458214.7	3769516	0.000818031	8.18E-04	2.45E-04	9.28E-05
2478	458224.7	3769516	0.000827381	8.27E-04	2.48E-04	9.39E-05
2479	458234.7	3769516	0.000835948	8.36E-04	2.50E-04	9.48E-05
2480	458034.7	3769526	0.000670297	6.70E-04	2.01E-04	7.60E-05
2481	458044.7	3769526	0.000676491	6.76E-04	2.03E-04	7.68E-05
2482	458054.7	3769526	0.000682424	6.82E-04	2.04E-04	7.74E-05
2483	458064.7	3769526	0.000687977	6.88E-04	2.06E-04	7.81E-05
2484	458074.7	3769526	0.000693673	6.94E-04	2.08E-04	7.87E-05
2485	458084.7	3769526	0.000698348	6.98E-04	2.09E-04	7.92E-05
2486	458094.7	3769526	0.000701861	7.02E-04	2.10E-04	7.96E-05
2487	458214.7	3769526	0.000800991	8.01E-04	2.40E-04	9.09E-05
2488	458224.7	3769526	0.000809463	8.09E-04	2.42E-04	9.18E-05

2489	458234.7	3769526	0.000817746	8.18E-04	2.45E-04	9.28E-05
2490	458034.7	3769536	0.000658692	6.59E-04	1.97E-04	7.47E-05
2491	458044.7	3769536	0.000664696	6.65E-04	1.99E-04	7.54E-05
2492	458054.7	3769536	0.000670605	6.71E-04	2.01E-04	7.61E-05
2493	458064.7	3769536	0.000676443	6.76E-04	2.03E-04	7.67E-05
2494	458074.7	3769536	0.000682448	6.82E-04	2.04E-04	7.74E-05
2495	458084.7	3769536	0.000686933	6.87E-04	2.06E-04	7.79E-05
2496	458094.7	3769536	0.0006899	6.90E-04	2.07E-04	7.83E-05
2497	458234.7	3769536	0.000799994	8.00E-04	2.40E-04	9.08E-05
2498	458034.7	3769546	0.000647419	6.47E-04	1.94E-04	7.35E-05
2499	458044.7	3769546	0.000653233	6.53E-04	1.96E-04	7.41E-05
2500	458054.7	3769546	0.000659142	6.59E-04	1.97E-04	7.48E-05
2501	458064.7	3769546	0.000665265	6.65E-04	1.99E-04	7.55E-05
2502	458074.7	3769546	0.000671483	6.71E-04	2.01E-04	7.62E-05
2503	458084.7	3769546	0.000675826	6.76E-04	2.02E-04	7.67E-05
2504	458094.7	3769546	0.000678223	6.78E-04	2.03E-04	7.69E-05
2505	458234.7	3769546	0.000782788	7.83E-04	2.34E-04	8.88E-05
2506	458034.7	3769556	0.000636431	6.36E-04	1.91E-04	7.22E-05
2507	458044.7	3769556	0.000641248	6.41E-04	1.92E-04	7.28E-05
2508	458054.7	3769556	0.000646422	6.46E-04	1.94E-04	7.33E-05
2509	458064.7	3769556	0.000651904	6.52E-04	1.95E-04	7.40E-05
2510	458074.7	3769556	0.000657505	6.58E-04	1.97E-04	7.46E-05
2511	458084.7	3769556	0.000661872	6.62E-04	1.98E-04	7.51E-05
2512	458094.7	3769556	0.000664933	6.65E-04	1.99E-04	7.54E-05
2513	458234.7	3769556	0.00076563	7.66E-04	2.29E-04	8.69E-05
2514	458034.7	3769566	0.000625775	6.26E-04	1.87E-04	7.10E-05
2515	458044.7	3769566	0.000629572	6.30E-04	1.89E-04	7.14E-05
2516	458054.7	3769566	0.000633915	6.34E-04	1.90E-04	7.19E-05
2517	458064.7	3769566	0.000638804	6.39E-04	1.91E-04	7.25E-05
2518	458074.7	3769566	0.000643764	6.44E-04	1.93E-04	7.30E-05
2519	458084.7	3769566	0.000648131	6.48E-04	1.94E-04	7.35E-05
2520	458094.7	3769566	0.000651928	6.52E-04	1.95E-04	7.40E-05
2521	458234.7	3769566	0.000748922	7.49E-04	2.24E-04	8.50E-05
2522	458034.7	3769576	0.00061538	6.15E-04	1.84E-04	6.98E-05
2523	458044.7	3769576	0.000618252	6.18E-04	1.85E-04	7.01E-05
2524	458054.7	3769576	0.000621788	6.22E-04	1.86E-04	7.05E-05
2525	458064.7	3769576	0.000626012	6.26E-04	1.88E-04	7.10E-05
2526	458074.7	3769576	0.000630355	6.30E-04	1.89E-04	7.15E-05
2527	458084.7	3769576	0.000634793	6.35E-04	1.90E-04	7.20E-05
2528	458094.7	3769576	0.000639255	6.39E-04	1.91E-04	7.25E-05
2529	458234.7	3769576	0.00073276	7.33E-04	2.19E-04	8.31E-05
2530	458234.7	3769586	0.000717571	7.18E-04	2.15E-04	8.14E-05

			UnMitigated				T2				T2L3				T4			
						3.85E-07				3.85E-07				1.13E-07				4.26E-08
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	457721.3	3768126	3.66E-07	1.88E-08	0.00E+00	3.85E-07	3.66E-07	1.88E-08	0.00E+00	3.85E-07	1.10E-07	3.37E-09	0.00E+00	1.13E-07	4.15E-08	1.09E-09	0.00E+00	4.26E-08
2	457732.4	3768222	2.97E-07	1.52E-08	0.00E+00	3.12E-07	2.97E-07	1.52E-08	0.00E+00	3.12E-07	8.88E-08	2.73E-09	0.00E+00	9.16E-08	3.37E-08	8.83E-10	0.00E+00	3.45E-08
3	457732.3	3768212	3.18E-07	1.63E-08	0.00E+00	3.34E-07	3.18E-07	1.63E-08	0.00E+00	3.34E-07	9.51E-08	2.93E-09	0.00E+00	9.80E-08	3.60E-08	9.45E-10	0.00E+00	3.70E-08
4	457732.2	3768203	3.33E-07	1.71E-08	0.00E+00	3.50E-07	3.33E-07	1.71E-08	0.00E+00	3.50E-07	9.98E-08	3.07E-09	0.00E+00	1.03E-07	3.78E-08	9.92E-10	0.00E+00	3.88E-08
5	457732.1	3768193	3.43E-07	1.76E-08	0.00E+00	3.61E-07	3.43E-07	1.76E-08	0.00E+00	3.61E-07	1.03E-07	3.16E-09	0.00E+00	1.06E-07	3.89E-08	1.02E-09	0.00E+00	4.00E-08
6	457732	3768183	3.48E-07	1.78E-08	0.00E+00	3.66E-07	3.48E-07	1.78E-08	0.00E+00	3.66E-07	1.04E-07	3.21E-09	0.00E+00	1.07E-07	3.95E-08	1.04E-09	0.00E+00	4.05E-08
7	457731.9	3768174	3.48E-07	1.79E-08	0.00E+00	3.66E-07	3.48E-07	1.79E-08	0.00E+00	3.66E-07	1.04E-07	3.21E-09	0.00E+00	1.08E-07	3.95E-08	1.04E-09	0.00E+00	4.06E-08
8	457731.8	3768164	3.45E-07	1.77E-08	0.00E+00	3.63E-07	3.45E-07	1.77E-08	0.00E+00	3.63E-07	1.03E-07	3.18E-09	0.00E+00	1.07E-07	3.92E-08	1.03E-09	0.00E+00	4.02E-08
9	457731.7	3768155	3.39E-07	1.74E-08	0.00E+00	3.57E-07	3.39E-07	1.74E-08	0.00E+00	3.57E-07	1.02E-07	3.13E-09	0.00E+00	1.05E-07	3.85E-08	1.01E-09	0.00E+00	3.95E-08
10	457731.5	3768145	3.31E-07	1.70E-08	0.00E+00	3.48E-07	3.31E-07	1.70E-08	0.00E+00	3.48E-07	9.91E-08	3.05E-09	0.00E+00	1.02E-07	3.75E-08	9.84E-10	0.00E+00	3.85E-08
11	457731.4	3768135	3.20E-07	1.64E-08	0.00E+00	3.36E-07	3.20E-07	1.64E-08	0.00E+00	3.36E-07	9.57E-08	2.95E-09	0.00E+00	9.86E-08	3.62E-08	9.51E-10	0.00E+00	3.72E-08
12	457731.3	3768126	3.06E-07	1.57E-08	0.00E+00	3.22E-07	3.06E-07	1.57E-08	0.00E+00	3.22E-07	9.16E-08	2.82E-09	0.00E+00	9.45E-08	3.47E-08	9.10E-10	0.00E+00	3.56E-08
13	457739.7	3768239	2.43E-07	1.24E-08	0.00E+00	2.55E-07	2.43E-07	1.24E-08	0.00E+00	2.55E-07	7.27E-08	2.24E-09	0.00E+00	7.49E-08	2.75E-08	7.22E-10	0.00E+00	2.83E-08
14	457733.9	3768253	2.21E-07	1.13E-08	0.00E+00	2.32E-07	2.21E-07	1.13E-08	0.00E+00	2.32E-07	6.62E-08	2.04E-09	0.00E+00	6.82E-08	2.51E-08	6.58E-10	0.00E+00	2.57E-08
15	457742.4	3768222	2.68E-07	1.38E-08	0.00E+00	2.82E-07	2.68E-07	1.38E-08	0.00E+00	2.82E-07	8.03E-08	2.47E-09	0.00E+00	8.28E-08	3.04E-08	7.98E-10	0.00E+00	3.12E-08
16	457742.3	3768212	2.83E-07	1.45E-08	0.00E+00	2.98E-07	2.83E-07	1.45E-08	0.00E+00	2.98E-07	8.49E-08	2.61E-09	0.00E+00	8.75E-08	3.21E-08	8.43E-10	0.00E+00	3.30E-08
17	457742.2	3768203	2.95E-07	1.51E-08	0.00E+00	3.10E-07	2.95E-07	1.51E-08	0.00E+00	3.10E-07	8.83E-08	2.72E-09	0.00E+00	9.10E-08	3.34E-08	8.77E-10	0.00E+00	3.43E-08
18	457742.1	3768193	3.02E-07	1.55E-08	0.00E+00	3.17E-07	3.02E-07	1.55E-08	0.00E+00	3.17E-07	9.04E-08	2.78E-09	0.00E+00	9.32E-08	3.42E-08	8.98E-10	0.00E+00	3.51E-08
19	457742	3768183	3.05E-07	1.56E-08	0.00E+00	3.20E-07	3.05E-07	1.56E-08	0.00E+00	3.20E-07	9.13E-08	2.81E-09	0.00E+00	9.41E-08	3.46E-08	9.07E-10	0.00E+00	3.55E-08
20	457741.9	3768174	3.04E-07	1.56E-08	0.00E+00	3.20E-07	3.04E-07	1.56E-08	0.00E+00	3.20E-07	9.11E-08	2.80E-09	0.00E+00	9.39E-08	3.45E-08	9.05E-10	0.00E+00	3.54E-08
21	457741.8	3768164	3.00E-07	1.54E-08	0.00E+00	3.16E-07	3.00E-07	1.54E-08	0.00E+00	3.16E-07	9.00E-08	2.77E-09	0.00E+00	9.28E-08	3.41E-08	8.94E-10	0.00E+00	3.50E-08
22	457741.7	3768154	2.94E-07	1.51E-08	0.00E+00	3.09E-07	2.94E-07	1.51E-08	0.00E+00	3.09E-07	8.81E-08	2.71E-09	0.00E+00	9.09E-08	3.34E-08	8.76E-10	0.00E+00	3.43E-08
23	457741.5	3768145	2.86E-07	1.46E-08	0.00E+00	3.00E-07	2.86E-07	1.46E-08	0.00E+00	3.00E-07	8.56E-08	2.63E-09	0.00E+00	8.82E-08	3.24E-08	8.50E-10	0.00E+00	3.33E-08
24	457741.4	3768135	2.75E-07	1.41E-08	0.00E+00	2.89E-07	2.75E-07	1.41E-08	0.00E+00	2.89E-07	8.23E-08	2.53E-09	0.00E+00	8.48E-08	3.12E-08	8.17E-10	0.00E+00	3.20E-08
25	457741.3	3768126	2.62E-07	1.34E-08	0.00E+00	2.75E-07	2.62E-07	1.34E-08	0.00E+00	2.75E-07	7.83E-08	2.41E-09	0.00E+00	8.08E-08	2.97E-08	7.78E-10	0.00E+00	3.05E-08
26	457748.9	3768240	2.24E-07	1.15E-08	0.00E+00	2.36E-07	2.24E-07	1.15E-08	0.00E+00	2.36E-07	6.72E-08	2.07E-09	0.00E+00	6.92E-08	2.54E-08	6.67E-10	0.00E+00	2.61E-08
27	457745.3	3768249	2.14E-07	1.10E-08	0.00E+00	2.25E-07	2.14E-07	1.10E-08	0.00E+00	2.25E-07	6.42E-08	1.98E-09	0.00E+00	6.62E-08	2.43E-08	6.38E-10	0.00E+00	2.50E-08
28	457741.7	3768258	2.03E-07	1.04E-08	0.00E+00	2.13E-07	2.03E-07	1.04E-08	0.00E+00	2.13E-07	6.07E-08	1.87E-09	0.00E+00	6.26E-08	2.30E-08	6.03E-10	0.00E+00	2.36E-08
29	457752.6	3768231	2.31E-07	1.19E-08	0.00E+00	2.43E-07	2.31E-07	1.19E-08	0.00E+00	2.43E-07	6.93E-08	2.13E-09	0.00E+00	7.15E-08	2.63E-08	6.89E-10	0.00E+00	2.69E-08
30	457752.4	3768222	2.44E-07	1.25E-08	0.00E+00	2.57E-07	2.44E-07	1.25E-08	0.00E+00	2.57E-07	7.32E-08	2.25E-09	0.00E+00	7.55E-08	2.77E-08	7.27E-10	0.00E+00	2.85E-08
31	457752.3	3768212	2.55E-07	1.31E-08	0.00E+00	2.69E-07	2.55E-07	1.31E-08	0.00E+00	2.69E-07	7.65E-08	2.35E-09	0.00E+00	7.89E-08	2.90E-08	7.60E-10	0.00E+00	2.97E-08
32	457752.2	3768203	2.64E-07	1.35E-08	0.00E+00	2.77E-07	2.64E-07	1.35E-08	0.00E+00	2.77E-07	7.90E-08	2.43E-09	0.00E+00	8.14E-08	2.99E-08	7.85E-10	0.00E+00	3.07E-08
33	457752.1	3768193	2.69E-07	1.38E-08	0.00E+00	2.82E-07	2.69E-07	1.38E-08	0.00E+00	2.82E-07	8.05E-08	2.48E-09	0.00E+00	8.29E-08	3.05E-08	7.99E-10	0.00E+00	3.13E-08
34	457752	3768183	2.70E-07	1.39E-08	0.00E+00	2.84E-07	2.70E-07	1.39E-08	0.00E+00	2.84E-07	8.09E-08	2.49E-09	0.00E+00	8.34E-08	3.07E-08	8.04E-10	0.00E+00	3.15E-08
35	457751.9	3768174	2.69E-07	1.38E-08	0.00E+00	2.83E-07	2.69E-07	1.38E-08	0.00E+00	2.83E-07	8.05E-08	2.48E-09	0.00E+00	8.30E-08	3.05E-08	8.00E-10	0.00E+00	3.13E-08
36	457751.8	3768164	2.65E-07	1.36E-08	0.00E+00	2.78E-07	2.65E-07	1.36E-08	0.00E+00	2.78E-07	7.93E-08	2.44E-09	0.00E+00	8.18E-08	3.01E-08	7.88E-10	0.00E+00	3.08E-08
37	457751.7	3768154	2.59E-07	1.33E-08	0.00E+00	2.72E-07	2.59E-07	1.33E-08	0.00E+00	2.72E-07	7.75E-08	2.38E-09	0.00E+00	7.98E-08	2.93E-08	7.69E-10	0.00E+00	3.01E-08
38	457751.5	3768145	2.50E-07	1.28E-08	0.00E+00	2.63E-07	2.50E-07	1.28E-08	0.00E+00	2.63E-07	7.49E-08	2.31E-09	0.00E+00	7.72E-08	2.84E-08	7.44E-10	0.00E+00	2.91E-08
39	457751.4	3768135	2.40E-07	1.23E-08	0.00E+00	2.52E-07	2.40E-07	1.23E-08	0.00E+00	2.52E-07	7.18E-08	2.21E-09	0.00E+00	7.40E-08	2.72E-08	7.14E-10	0.00E+00	2.79E-08
40	457750.8	3768077	1.44E-07	7.38E-09	0.00E+00	1.51E-07	1.44E-07	7.38E-09	0.00E+00	1.51E-07	4.31E-08	1.33E-09	0.00E+00	4.45E-08	1.63E-08	4.29E-10	0.00E+00	1.68E-08
41	457750.6	3768068	1.27E-07	6.50E-09	0.00E+00	1.33E-07	1.27E-07	6.50E-09	0.00E+00	1.33E-07	3.80E-08	1.17E-09	0.00E+00	3.92E-08	1.44E-08	3.78E-10	0.00E+00	1.48E-08
42	457750.5	3768058	1.11E-07	5.70E-09	0.00E+00	1.17E-07	1.11E-07	5.70E-09	0.00E+00	1.17E-07	3.33E-08	1.03E-09	0.00E+00	3.43E-08	1.26E-08	3.31E-10	0.00E+00	1.30E-08
43	457750.4	3768048	9.77E-08	5.01E-09	0.00E+00	1.03E-07	9.77E-08	5.01E-09	0.00E+00	1.03E-07	2.93E-08	9.01E-10	0.00E+00	3.02E-08	1.11E-08	2.91E-10	0.00E+00	1.14E-08
44	457750.3	3768039	8.63E-08	4.43E-09	0.00E+00	9.07E-08	8.63E-08	4.43E-09	0.00E+00	9.07E-08	2.59E-08	7.96E-10	0.00E+00	2.66E-08	9.79E-09	2.57E-10	0.00E+00	1.00E-08
45	457750.2	3768029	7.70E-08	3.95E-09	0.00E+00	8.09E-08	7.70E-08	3.95E-09	0.00E+00	8.09E-08	2.31E-08	7.10E-10	0.00E+00	2.38E-08	8.73E-09	2.29E-10	0.00E+00	8.96E-09
46	457759.1	3768240	2.10E-07	1.08E-08	0.00E+00	2.20E-07	2.10E-07	1.08E-08	0.00E+00	2.20E-07	6.28E-08	1.93E-09	0.00E+00	6.47E-08	2.38E-08	6.24E-10	0.00E+00	2.44E-08
47	457755.6	3768248	2.03E-07	1.04E-08	0.00E+00	2.13E-07	2.03E-07	1.04E-08	0.00E+00	2.13E-07	6.08E-08	1.87E-09	0.00E+00	6.26E-08	2.30E-08	6.04E-10	0.00E+00	2.36E-08
48	457752.2	3768257	1.94E-07	9.97E-09	0.00E+00	2.04E-07	1.94E-07	9.97E-09	0.00E+00	2.04E-07	5.82E-08	1.79E-09	0.00E+00	6.00E-08	2.21E-08	5.79E-10	0.00E+00	2.26E-08
49	457748.7	3768266	1.85E-07	9.48E-09	0.00E+00	1.94E-07	1.85E-07	9.48E-09	0.00E+00	1.94E-07	5.54E-08	1.70E-09	0.00E+00	5.71E-08	2.10E-08	5.50E-10	0.00E+00	2.15E-08
50	457736.7	3768278	1.74E-07	8.91E-09	0.00E+00	1.83E-07	1.74E-07	8.91E-09	0.00E+00	1.83E-07	5.21E-08	1.60E-09	0.00E+00	5.37E-08	1.97E-08	5.17E-10	0.00E+00	2.02E-08
51	457762.6	3768231	2.14E-07	1.10E-08	0.00E+00	2.25E-07	2.14E-07	1.10E-08	0.00E+00	2.25E-07	6.42E-08	1.98E-09	0.00E+00	6.62E-08	2.43E-08	6.38E-10	0.00E+00	2.49E-08
52	457762.4	3768222	2.24E-07	1.15E-08	0.00E+00	2.36E-07	2.24E-07	1.15E-08	0.00E+00	2.36E-07	6.71E-08	2.07E-09	0.00E+00	6.92E-08	2.54E-08	6.67E-10	0.00E+00	2.61E-08
53	457762.3	3768212	2.32E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.95E-08	2.14E-09	0.00E+00	7.17E-08	2.63E-08	6.91E-10	0.00E+00	2.70E-08
54	457762.2	3768202	2.38E-07	1.22E-08	0.00E+00	2.50E-07	2.38E-07	1.22E-08	0.00E+00	2.50E-07	7.12E-08	2.19E-09	0.00E+00	7.34E-08	2.70E-08	7.08E-10	0.00E+00	2.77E-08
55	457762.1	3768193	2.41E-07	1.24E-08	0.00E+00	2.53E-07	2.41E-07	1.24E-08	0.00E+00	2.53E-07	7.22E-08	2.22E-09	0.00E+00	7.44E-08	2.73E-08	7.17E-10	0.00E+00	2.81E-08
56	457762	3768183	2.42E-07	1.24E-08	0.00E+00	2.54E-07	2.42E-07	1.24E-08	0.00E+00	2.54E-07	7.24E-08	2.23E-09	0.00E+00	7.46E-08	2.74E-08	7.19E-10	0.00E+00	2.81E-08
57	457761.9	3768173	2.40E-07	1.23E-08	0.00E+00	2.52E-07	2.40E-07	1.23E-08	0.00E+00	2.52E-07	7.18E-08	2.21E-09	0.00E+00	7.41E-08	2.72E-08	7.14E-10	0.00E+00	2.79E-08
58	457761.8	3768164	2.36E-07	1.21E-08	0.00E+00	2.48E-07	2.36E-07	1.21E-08	0.00E+00	2.48E-07	7.06E-08	2.17E-09	0.00E+00	7.28E-08	2.68E-08	7.02E-10	0.00E+00	2.75E-08
59	457761.7	3768154	2.30E-07	1.18E-08	0.00E+00	2.41E-07	2.30E-07	1.18E-08	0.00E+00	2.41E-07	6.88E-08	2.12E-09	0.00E+00	7.09E-08	2.61E-08	6.83E-10	0.00E+00	2.67E-08
60	457761.5	3768145	2.22E-07	1.14E-08	0.00E+00	2.33E-07	2.22E-07	1.14E-08	0.00E+00	2.33E-07	6.64E-08	2.04E-09	0.00E+00	6.84E-08	2.51E-08	6.60E-10	0.00E+00	2.58E-08
61	457761.4	3768135	2.12E-07	1.09E-08	0.00E+00	2.23E-07	2.12E-07	1.09E-08	0.00E+00	2.23E-07	6.35E-08	1.95E-09	0.00E+00	6.54E-08	2.40E-08	6.30E-10	0.00E+00	2.47E-08
62	457760.8	3768077	1.29E-07	6.59E-09	0.00E+00	1.35E-07	1.29E-07	6.59E-09	0.00E+00	1.35E-07	3.85E-08	1.18E-09	0.00E+00	3.97E-08	1.46E-08	3.82E-10	0.00E+00	1.50E-08
63	457760.6	3768067	1.14E-07	5.86E-09	0.00E+00	1.20E-07	1.14E-07	5.86E-09	0.00E+00	1.20E-07	3.42E-08	1.05E-09	0.00E+00	3.53E-08	1.30E-08	3.40E-10	0.00E+00	1.33E-08
64	457760.5	3768058	1.01E-07	5.18E-09	0.00E+00	1.06E-07	1.01E-07	5.18E-09	0.00E+00	1.06E-07	3.03E-08	9.32E-10	0.00E+00	3.12E-08	1.15E-08	3.01E-10	0.00E+00	1.18E-08
65	457760.4	3768048	8.96E-08	4.59E-09	0.00E+00	9.42E-08	8.96E-08	4.59E-09	0.00E+00	9.42E-08	2.68E-08	8.26E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.04E-08
66	457760.3	3768039	7.98E-08	4.09E-09	0.00E+00	8.39E-08	7.98E-08	4.09E-09	0.00E+00	8.39E-08	2.39E-08	7.36E-10	0.00E+00	2.46E-08	9.05E-09	2.37E-10	0.00E+00	9.29E-09
67	457760.2	3768029	7.16E-08	3.67E-09	0.00E+00	7.53E-08	7.16E-08	3.67E-09	0.00E+00	7.53E-08	2.14E-08	6.60E-10	0.00E+00	2.21E-08	8.12E-09	2.13E-10	0.00E+00	8.33E-09
68	457769.2	3768240	1.96E-07	1.01E-08	0.00E+00	2.06E-07	1.96E-07	1.01E-08	0.00E+00	2.06E-07	5.87E-08	1.81E-09	0.00E+00	6.05E-08	2.22E-08	5.83E-10	0.00E+00	2.28E-08
69	457762.5	3768256	1.85E-07	9.50E-09	0.00E+00	1.95E-07	1.85E-07	9.50E-09	0.00E+00	1.95E-07	5.55E-08	1.71E-09	0.00E+00	5.72E-08	2.10E-08	5.51E-10	0.00E+00	2.16E-08
70	457755.7	3768273	1.70E-07	8.70E-09	0.00E+00	1.78E-07	1.70E-07	8.70E-09	0.00E+00	1.78E-07	5.08E-08	1.56E-09	0.00E+00	5.24E-08	1.93E-08	5.05E-10	0.00E+00	1.98E-08
71	457744.1	3768285	1.61E-07	8.23E-09	0.00E+00	1.69E-07	1.61E-07	8.23E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.96E-08	1.82E-08	4.78E-10	0.00E+00	1.87E-08
72	457735.8	3768288	1.59E-07	8.15E-09	0.00E+00	1.67E-07	1.59E-07	8.15E-09	0.00E+00	1.67E-07	4.76E-08	1.47E-09	0.00E+00	4.91E-08	1.80E-08	4.73E-10	0.00E+00	1.85E-08
73	457772.4	3768222	2.06E-07	1.06E-08	0.00E+00	2.17E-07	2.06E-07	1.06E-08	0.00E+00	2.17E-07	6.18E-08	1.90E-09	0.00E+00	6.37E-08	2.34E-08	6.14E-10	0.00E+00	2.40E-08
74	457772.3	3768212	2.12E-07	1.09E-08	0.00E+00	2.23E-07	2.12E-07	1.09E-08	0.00E+00	2.23E-07	6.35E-08	1.96E-09	0.00E+00	6.55E-08	2.41E-08	6.31E-10	0.00E+00	2.47E-08
75	457772.2	3768202	2.16E-07	1.11E-08	0.00E+00	2.27E-07	2.16E-07	1.11E-08	0.00E+00	2.27E-07	6.47E-08	1.99E-09	0.00E+00	6.67E-08	2.45E-08	6.43E-10	0.00E+00	2.52E-08
76	457772.1	3768193	2.18E-07	1.12E-08	0.00E+00	2.29E-07	2.18E-07	1.12E-08	0.00E+00	2.29E-07	6.53E-08	2.01E-09	0.00E+00	6.73E-08	2.47E-08	6.49E-10	0.00E+00	2.54E-08
77	457772	3768183	2.18E-07	1.12E-08	0.00E+00	2.29E-07	2.18E-07	1.12E-08	0.00E+00	2.29E-07	6.53E-08	2.01E-09	0.00E+00	6.73E-08	2.47E-08	6.48E-10	0.00E+00	2.54E-08
78	457771.9	3768173	2.16E-07	1.11E-08	0.00E+00	2.27E-07	2.16E-07	1.11E-08	0.00E+00	2.27E-07	6.46E-08	1.99E-09	0.00E+00	6.66E-08	2.45E-08	6.42E-10	0.00E+00	2.51E-08
79	457771.8	3768164	2.12E-07	1.09E-08	0.00E+00	2.23E-07	2.12E-07	1.09E-08	0.00E+00	2.23E-07	6.34E-08	1.95E-09	0.00E+00	6.54E-08	2.40E-08	6.30E-10	0.00E+00	2.46E-08
80	457771.7	3768154	2.06E-07	1.05E-08	0.00E+00	2.16E-07	2.06E-07	1.05E-08	0.00E+00	2.16E-07	6.16E-08	1.90E-09	0.00E+00	6.35E-08	2.33E-08	6.12E-10	0.00E+00	2.39E-08
81	457771.5	3768144	1.98E-07	1.02E-08	0.00E+00	2.08E-07	1.98E-07	1.02E-08	0.00E+00	2.08E-07	5.93E-08	1.83E-09	0.00E+00	6.12E-08	2.25E-08	5.89E-10	0.00E+00	2.31E-08
82	457771.4	3768135	1.89E-07	9.69E-09	0.00E+00	1.99E-07	1.89E-07	9.69E-09	0.00E+00	1.99E-07	5.66E-08	1.74E-09	0.00E+00	5.84E-08	2.14E-08	5.63E-10	0.00E+00	2.20E-08
83	457770.8	3768077	1.16E-07	5.95E-09	0.00E+00	1.22E-07	1.16E-07	5.95E-09	0.00E+00	1.22E-07	3.48E-08	1.07E-09	0.00E+00	3.58E-08	1.32E-08	3.45E-10	0.00E+00	1.35E-08
84	457770.6	3768067	1.04E-07	5.33E-09	0.00E+00	1.09E-07	1.04E-07	5.33E-09	0.00E+00	1.09E-07	3.11E-08	9.58E-10	0.00E+00	3.21E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
85	457770.5	3768058	9.27E-08	4.75E-09	0.00E+00	9.75E-08	9.27E-08	4.75E-09	0.00E+00	9.75E-08	2.78E-08	8.55E-10	0.00E+00	2.86E-08	1.05E-08	2.76E-10	0.00E+00	1.08E-08
86	457770.4	3768048	8.28E-08	4.24E-09	0.00E+00	8.70E-08	8.28E-08	4.24E-09	0.00E+00	8.70E-08	2.48E-08	7.63E-10	0.00E+00	2.55E-08	9.39E-09	2.46E-10	0.00E+00	9.64E-09
87	457770.3	3768038	7.42E-08	3.80E-09	0.00E+00	7.80E-08	7.42E-08	3.80E-09	0.00E+00	7.80E-08	2.22E-08	6.84E-10	0.00E+00	2.29E-08	8.42E-09	2.21E-10	0.00E+00	8.64E-09
88	457770.2	3768029	6.69E-08	3.43E-09	0.00E+00	7.03E-08	6.69E-08	3.43E-09	0.00E+00	7.03E-08	2.00E-08	6.17E-10	0.00E+00	2.07E-08	7.59E-09	1.99E-10	0.00E+00	7.79E-09
89	457779.3	3768239	1.83E-07	9.40E-09	0.00E+00	1.93E-07	1.83E-07	9.40E-09	0.00E+00	1.93E-07	5.49E-08	1.69E-09	0.00E+00	5.66E-08	2.08E-08	5.46E-10	0.00E+00	2.14E-08
90	457772.7	3768256	1.76E-07	9.02E-09	0.00E+00	1.85E-07	1.76E-07	9.02E-09	0.00E+00	1.85E-07	5.27E-08	1.62E-09	0.00E+00	5.43E-08	2.00E-08	5.23E-10	0.00E+00	2.05E-08
91	457766.1	3768272	1.64E-07	8.39E-09	0.00E+00	1.72E-07	1.64E-07	8.39E-09	0.00E+00	1.72E-07	4.90E-08	1.51E-09	0.00E+00	5.06E-08	1.86E-08	4.87E-10	0.00E+00	1.91E-08
92	457751.3	3768292	1.49E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.46E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
93	457735.1	3768298	1.46E-07	7.46E-09	0.00E+00	1.53E-07	1.46E-07	7.46E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.49E-08	1.65E-08	4.33E-10	0.00E+00	1.69E-08
94	457782.4	3768221	1.91E-07	9.78E-09	0.00E+00	2.00E-07	1.91E-07	9.78E-09	0.00E+00	2.00E-07	5.71E-08	1.76E-09	0.00E+00	5.89E-08	2.16E-08	5.67E-10	0.00E+00	2.22E-08
95	457782.3	3768212	1.95E-07	9.99E-09	0.00E+00	2.05E-07	1.95E-07	9.99E-09	0.00E+00	2.05E-07	5.84E-08	1.80E-09	0.00E+00	6.02E-08	2.21E-08	5.80E-10	0.00E+00	2.27E-08
96	457782.2	3768202	1.98E-07	1.01E-08	0.00E+00	2.08E-07	1.98E-07	1.01E-08	0.00E+00	2.08E-07	5.92E-08	1.82E-09	0.00E+00	6.10E-08	2.24E-08	5.88E-10	0.00E+00	2.30E-08
97	457782.1	3768193	1.98E-07	1.02E-08	0.00E+00	2.09E-07	1.98E-07	1.02E-08	0.00E+00	2.09E-07	5.94E-08	1.83E-09	0.00E+00	6.13E-08	2.25E-08	5.90E-10	0.00E+00	2.31E-08
98	457782	3768183	1.98E-07	1.01E-08	0.00E+00	2.08E-07	1.98E-07	1.01E-08	0.00E+00	2.08E-07	5.92E-08	1.82E-09	0.00E+00	6.11E-08	2.24E-08	5.89E-10	0.00E+00	2.30E-08
99	457781.9	3768173	1.95E-07	1.00E-08	0.00E+00	2.05E-07	1.95E-07	1.00E-08	0.00E+00	2.05E-07	5.85E-08	1.80E-09	0.00E+00	6.03E-08	2.22E-08	5.81E-10	0.00E+00	2.27E-08
100	457781.8	3768164	1.91E-07	9.81E-09	0.00E+00	2.01E-07	1.91E-07	9.81E-09	0.00E+00	2.01E-07	5.73E-08	1.76E-09	0.00E+00	5.91E-08	2.17E-08	5.69E-10	0.00E+00	2.23E-08
101	457781.7	3768154	1.86E-07	9.51E-09	0.00E+00	1.95E-07	1.86E-07	9.51E-09	0.00E+00	1.95E-07	5.56E-08	1.71E-09	0.00E+00	5.73E-08	2.10E-08	5.52E-10	0.00E+00	2.16E-08
102	457781.5	3768144	1.78E-07	9.14E-09	0.00E+00	1.88E-07	1.78E-07	9.14E-09	0.00E+00	1.88E-07	5.34E-08	1.64E-09	0.00E+00	5.51E-08	2.02E-08	5.31E-10	0.00E+00	2.08E-08
103	457781.4	3768135	1.70E-07	8.72E-09	0.00E+00	1.79E-07	1.70E-07	8.72E-09	0.00E+00	1.79E-07	5.09E-08	1.57E-09	0.00E+00	5.25E-08	1.93E-08	5.06E-10	0.00E+00	1.98E-08
104	457780.8	3768077	1.06E-07	5.42E-09	0.00E+00	1.11E-07	1.06E-07	5.42E-09	0.00E+00	1.11E-07	3.17E-08	9.75E-10	0.00E+00	3.27E-08	1.20E-08	3.15E-10	0.00E+00	1.23E-08
105	457780.6	3768067	9.53E-08	4.88E-09	0.00E+00	1.00E-07	9.53E-08	4.88E-09	0.00E+00	1.00E-07	2.85E-08	8.78E-10	0.00E+00	2.94E-08	1.08E-08	2.84E-10	0.00E+00	1.11E-08
106	457780.5	3768058	8.56E-08	4.39E-09	0.00E+00	8.99E-08	8.56E-08	4.39E-09	0.00E+00	8.99E-08	2.56E-08	7.89E-10	0.00E+00	2.64E-08	9.71E-09	2.55E-10	0.00E+00	9.96E-09
107	457780.4	3768048	7.68E-08	3.94E-09	0.00E+00	8.08E-08	7.68E-08	3.94E-09	0.00E+00	8.08E-08	2.30E-08	7.08E-10	0.00E+00	2.37E-08	8.72E-09	2.29E-10	0.00E+00	8.95E-09
108	457780.3	3768038	6.93E-08	3.55E-09	0.00E+00	7.29E-08	6.93E-08	3.55E-09	0.00E+00	7.29E-08	2.08E-08	6.39E-10	0.00E+00	2.14E-08	7.86E-09	2.06E-10	0.00E+00	8.07E-09
109	457780.2	3768029	6.28E-08	3.22E-09	0.00E+00	6.60E-08	6.28E-08	3.22E-09	0.00E+00	6.60E-08	1.88E-08	5.79E-10	0.00E+00	1.94E-08	7.13E-09	1.87E-10	0.00E+00	7.31E-09

110	457789.3	3768239	1.72E-07	8.80E-09	0.00E+00	1.81E-07	1.72E-07	8.80E-09	0.00E+00	1.81E-07	5.14E-08	1.58E-09	0.00E+00	5.30E-08	1.95E-08	5.11E-10	0.00E+00	2.00E-08
111	457782.8	3768255	1.67E-07	8.54E-09	0.00E+00	1.75E-07	1.67E-07	8.54E-09	0.00E+00	1.75E-07	4.99E-08	1.54E-09	0.00E+00	5.15E-08	1.89E-08	4.96E-10	0.00E+00	1.94E-08
112	457776.3	3768271	1.57E-07	8.06E-09	0.00E+00	1.65E-07	1.57E-07	8.06E-09	0.00E+00	1.65E-07	4.71E-08	1.45E-09	0.00E+00	4.86E-08	1.78E-08	4.68E-10	0.00E+00	1.83E-08
113	457769.8	3768287	1.45E-07	7.45E-09	0.00E+00	1.53E-07	1.45E-07	7.45E-09	0.00E+00	1.53E-07	4.35E-08	1.34E-09	0.00E+00	4.48E-08	1.65E-08	4.32E-10	0.00E+00	1.69E-08
114	457758.6	3768299	1.38E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.28E-09	0.00E+00	4.27E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
115	457742.6	3768305	1.36E-07	6.95E-09	0.00E+00	1.43E-07	1.36E-07	6.95E-09	0.00E+00	1.43E-07	4.06E-08	1.25E-09	0.00E+00	4.19E-08	1.54E-08	4.04E-10	0.00E+00	1.58E-08
116	457792.4	3768221	1.77E-07	9.06E-09	0.00E+00	1.86E-07	1.77E-07	9.06E-09	0.00E+00	1.86E-07	5.30E-08	1.63E-09	0.00E+00	5.46E-08	2.01E-08	5.26E-10	0.00E+00	2.06E-08
117	457792.3	3768212	1.799E-07	9.22E-09	0.00E+00	1.89E-07	1.80E-07	9.22E-09	0.00E+00	1.89E-07	5.39E-08	1.66E-09	0.00E+00	5.55E-08	2.04E-08	5.35E-10	0.00E+00	2.09E-08
118	457792.2	3768202	1.815E-07	9.30E-09	0.00E+00	1.91E-07	1.82E-07	9.30E-09	0.00E+00	1.91E-07	5.44E-08	1.67E-09	0.00E+00	5.60E-08	2.06E-08	5.40E-10	0.00E+00	2.11E-08
119	457792.1	3768192	1.817E-07	9.32E-09	0.00E+00	1.91E-07	1.82E-07	9.32E-09	0.00E+00	1.91E-07	5.44E-08	1.68E-09	0.00E+00	5.61E-08	2.06E-08	5.41E-10	0.00E+00	2.12E-08
120	457792	3768183	1.805E-07	9.25E-09	0.00E+00	1.90E-07	1.80E-07	9.25E-09	0.00E+00	1.90E-07	5.41E-08	1.66E-09	0.00E+00	5.57E-08	2.05E-08	5.37E-10	0.00E+00	2.10E-08
121	457791.9	3768173	1.778E-07	9.12E-09	0.00E+00	1.87E-07	1.78E-07	9.12E-09	0.00E+00	1.87E-07	5.33E-08	1.64E-09	0.00E+00	5.49E-08	2.02E-08	5.29E-10	0.00E+00	2.07E-08
122	457791.8	3768163	1.737E-07	8.90E-09	0.00E+00	1.83E-07	1.74E-07	8.90E-09	0.00E+00	1.83E-07	5.20E-08	1.60E-09	0.00E+00	5.36E-08	1.97E-08	5.17E-10	0.00E+00	2.02E-08
123	457791.6	3768154	1.682E-07	8.62E-09	0.00E+00	1.77E-07	1.68E-07	8.62E-09	0.00E+00	1.77E-07	5.04E-08	1.55E-09	0.00E+00	5.19E-08	1.91E-08	5.00E-10	0.00E+00	1.96E-08
124	457791.5	3768144	1.615E-07	8.28E-09	0.00E+00	1.70E-07	1.62E-07	8.28E-09	0.00E+00	1.70E-07	4.84E-08	1.49E-09	0.00E+00	4.99E-08	1.83E-08	4.81E-10	0.00E+00	1.88E-08
125	457791.4	3768135	1.539E-07	7.89E-09	0.00E+00	1.62E-07	1.54E-07	7.89E-09	0.00E+00	1.62E-07	4.61E-08	1.42E-09	0.00E+00	4.75E-08	1.75E-08	4.58E-10	0.00E+00	1.79E-08
126	457790.8	3768077	9.718E-08	4.98E-09	0.00E+00	1.02E-07	9.72E-08	4.98E-09	0.00E+00	1.02E-07	2.91E-08	8.96E-10	0.00E+00	3.00E-08	1.10E-08	2.89E-10	0.00E+00	1.13E-08
127	457790.6	3768067	8.8E-08	4.51E-09	0.00E+00	9.25E-08	8.80E-08	4.51E-09	0.00E+00	9.25E-08	2.64E-08	8.11E-10	0.00E+00	2.72E-08	9.98E-09	2.62E-10	0.00E+00	1.02E-08
128	457790.5	3768057	7.95E-08	4.08E-09	0.00E+00	8.36E-08	7.95E-08	4.08E-09	0.00E+00	8.36E-08	2.38E-08	7.33E-10	0.00E+00	2.45E-08	9.02E-09	2.37E-10	0.00E+00	9.26E-09
129	457790.4	3768048	7.182E-08	3.68E-09	0.00E+00	7.55E-08	7.18E-08	3.68E-09	0.00E+00	7.55E-08	2.15E-08	6.62E-10	0.00E+00	2.22E-08	8.15E-09	2.14E-10	0.00E+00	8.36E-09
130	457790.3	3768038	6.506E-08	3.34E-09	0.00E+00	6.84E-08	6.51E-08	3.34E-09	0.00E+00	6.84E-08	1.95E-08	6.00E-10	0.00E+00	2.01E-08	7.38E-09	1.94E-10	0.00E+00	7.57E-09
131	457790.2	3768029	5.916E-08	3.03E-09	0.00E+00	6.22E-08	5.92E-08	3.03E-09	0.00E+00	6.22E-08	1.77E-08	5.45E-10	0.00E+00	1.83E-08	6.71E-09	1.76E-10	0.00E+00	6.89E-09
132	457798.9	3768240	1.609E-07	8.25E-09	0.00E+00	1.69E-07	1.61E-07	8.25E-09	0.00E+00	1.69E-07	4.82E-08	1.48E-09	0.00E+00	4.97E-08	1.83E-08	4.79E-10	0.00E+00	1.87E-08
133	457795.3	3768249	1.594E-07	8.17E-09	0.00E+00	1.68E-07	1.59E-07	8.17E-09	0.00E+00	1.68E-07	4.77E-08	1.47E-09	0.00E+00	4.92E-08	1.81E-08	4.74E-10	0.00E+00	1.86E-08
134	457791.7	3768258	1.566E-07	8.03E-09	0.00E+00	1.65E-07	1.57E-07	8.03E-09	0.00E+00	1.65E-07	4.69E-08	1.44E-09	0.00E+00	4.84E-08	1.78E-08	4.66E-10	0.00E+00	1.82E-08
135	457788.1	3768267	1.527E-07	7.83E-09	0.00E+00	1.61E-07	1.53E-07	7.83E-09	0.00E+00	1.61E-07	4.57E-08	1.41E-09	0.00E+00	4.71E-08	1.73E-08	4.54E-10	0.00E+00	1.78E-08
136	457784.5	3768275	1.478E-07	7.58E-09	0.00E+00	1.55E-07	1.48E-07	7.58E-09	0.00E+00	1.55E-07	4.43E-08	1.36E-09	0.00E+00	4.56E-08	1.68E-08	4.40E-10	0.00E+00	1.72E-08
137	457780.9	3768284	1.421E-07	7.29E-09	0.00E+00	1.49E-07	1.42E-07	7.29E-09	0.00E+00	1.49E-07	4.26E-08	1.31E-09	0.00E+00	4.39E-08	1.61E-08	4.23E-10	0.00E+00	1.65E-08
138	457777.3	3768293	1.36E-07	6.97E-09	0.00E+00	1.43E-07	1.36E-07	6.97E-09	0.00E+00	1.43E-07	4.07E-08	1.25E-09	0.00E+00	4.20E-08	1.54E-08	4.05E-10	0.00E+00	1.58E-08
139	457764.8	3768306	1.291E-07	6.62E-09	0.00E+00	1.36E-07	1.29E-07	6.62E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.47E-08	3.84E-10	0.00E+00	1.50E-08
140	457755.9	3768310	1.28E-07	6.56E-09	0.00E+00	1.35E-07	1.28E-07	6.56E-09	0.00E+00	1.35E-07	3.83E-08	1.18E-09	0.00E+00	3.95E-08	1.45E-08	3.81E-10	0.00E+00	1.49E-08
141	457747	3768313	1.262E-07	6.47E-09	0.00E+00	1.33E-07	1.26E-07	6.47E-09	0.00E+00	1.33E-07	3.78E-08	1.16E-09	0.00E+00	3.89E-08	1.43E-08	3.75E-10	0.00E+00	1.47E-08
142	457738.1	3768317	1.239E-07	6.35E-09	0.00E+00	1.30E-07	1.24E-07	6.35E-09	0.00E+00	1.30E-07	3.71E-08	1.14E-09	0.00E+00	3.82E-08	1.41E-08	3.69E-10	0.00E+00	1.44E-08
143	457802.5	3768231	1.611E-07	8.26E-09	0.00E+00	1.69E-07	1.61E-07	8.26E-09	0.00E+00	1.69E-07	4.83E-08	1.49E-09	0.00E+00	4.97E-08	1.83E-08	4.79E-10	0.00E+00	1.88E-08
144	457802.4	3768221	1.644E-07	8.43E-09	0.00E+00	1.73E-07	1.64E-07	8.43E-09	0.00E+00	1.73E-07	4.92E-08	1.52E-09	0.00E+00	5.08E-08	1.87E-08	4.89E-10	0.00E+00	1.91E-08
145	457802.3	3768212	1.665E-07	8.54E-09	0.00E+00	1.75E-07	1.67E-07	8.54E-09	0.00E+00	1.75E-07	4.99E-08	1.54E-09	0.00E+00	5.14E-08	1.89E-08	4.96E-10	0.00E+00	1.94E-08
146	457802.2	3768202	1.675E-07	8.58E-09	0.00E+00	1.76E-07	1.67E-07	8.58E-09	0.00E+00	1.76E-07	5.02E-08	1.54E-09	0.00E+00	5.17E-08	1.90E-08	4.98E-10	0.00E+00	1.95E-08
147	457802.1	3768192	1.671E-07	8.57E-09	0.00E+00	1.76E-07	1.67E-07	8.57E-09	0.00E+00	1.76E-07	5.00E-08	1.54E-09	0.00E+00	5.16E-08	1.90E-08	4.97E-10	0.00E+00	1.95E-08
148	457802	3768183	1.655E-07	8.48E-09	0.00E+00	1.74E-07	1.65E-07	8.48E-09	0.00E+00	1.74E-07	4.96E-08	1.53E-09	0.00E+00	5.11E-08	1.88E-08	4.92E-10	0.00E+00	1.93E-08
149	457801.9	3768173	1.626E-07	8.34E-09	0.00E+00	1.71E-07	1.63E-07	8.34E-09	0.00E+00	1.71E-07	4.87E-08	1.50E-09	0.00E+00	5.02E-08	1.84E-08	4.84E-10	0.00E+00	1.89E-08
150	457801.8	3768163	1.585E-07	8.13E-09	0.00E+00	1.67E-07	1.59E-07	8.13E-09	0.00E+00	1.67E-07	4.75E-08	1.46E-09	0.00E+00	4.89E-08	1.80E-08	4.72E-10	0.00E+00	1.85E-08
151	457801.6	3768154	1.533E-07	7.86E-09	0.00E+00	1.61E-07	1.53E-07	7.86E-09	0.00E+00	1.61E-07	4.59E-08	1.41E-09	0.00E+00	4.73E-08	1.74E-08	4.56E-10	0.00E+00	1.79E-08
152	457801.5	3768144	1.471E-07	7.54E-09	0.00E+00	1.55E-07	1.47E-07	7.54E-09	0.00E+00	1.55E-07	4.41E-08	1.36E-09	0.00E+00	4.54E-08	1.67E-08	4.38E-10	0.00E+00	1.71E-08
153	457801.4	3768134	1.401E-07	7.18E-09	0.00E+00	1.47E-07	1.40E-07	7.18E-09	0.00E+00	1.47E-07	4.20E-08	1.29E-09	0.00E+00	4.33E-08	1.59E-08	4.17E-10	0.00E+00	1.63E-08
154	457800.8	3768077	8.98E-08	4.60E-09	0.00E+00	9.44E-08	8.98E-08	4.60E-09	0.00E+00	9.44E-08	2.69E-08	8.28E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.05E-08
155	457800.6	3768067	8.173E-08	4.19E-09	0.00E+00	8.59E-08	8.17E-08	4.19E-09	0.00E+00	8.59E-08	2.45E-08	7.53E-10	0.00E+00	2.52E-08	9.27E-09	2.43E-10	0.00E+00	9.52E-09
156	457800.5	3768057	7.421E-08	3.80E-09	0.00E+00	7.80E-08	7.42E-08	3.80E-09	0.00E+00	7.80E-08	2.22E-08	6.84E-10	0.00E+00	2.29E-08	8.42E-09	2.21E-10	0.00E+00	8.64E-09
157	457800.4	3768048	6.737E-08	3.45E-09	0.00E+00	7.08E-08	6.74E-08	3.45E-09	0.00E+00	7.08E-08	2.02E-08	6.21E-10	0.00E+00	2.08E-08	7.64E-09	2.00E-10	0.00E+00	7.84E-09
158	457800.3	3768038	6.127E-08	3.14E-09	0.00E+00	6.44E-08	6.13E-08	3.14E-09	0.00E+00	6.44E-08	1.84E-08	5.65E-10	0.00E+00	1.89E-08	6.95E-09	1.82E-10	0.00E+00	7.13E-09
159	457800.2	3768028	5.59E-08	2.87E-09	0.00E+00	5.88E-08	5.59E-08	2.87E-09	0.00E+00	5.88E-08	1.67E-08	5.15E-10	0.00E+00	1.73E-08	6.34E-09	1.66E-10	0.00E+00	6.51E-09
160	457823.9	3768239	1.378E-07	7.06E-09	0.00E+00	1.45E-07	1.38E-07	7.06E-09	0.00E+00	1.45E-07	4.13E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
161	457820.3	3768248	1.378E-07	7.06E-09	0.00E+00	1.45E-07	1.38E-07	7.06E-09	0.00E+00	1.45E-07	4.13E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
162	457816.7	3768257	1.368E-07	7.02E-09	0.00E+00	1.44E-07	1.37E-07	7.02E-09	0.00E+00	1.44E-07	4.10E-08	1.26E-09	0.00E+00	4.22E-08	1.55E-08	4.07E-10	0.00E+00	1.59E-08
163	457813.1	3768266	1.351E-07	6.92E-09	0.00E+00	1.42E-07	1.35E-07	6.92E-09	0.00E+00	1.42E-07	4.04E-08	1.24E-09	0.00E+00	4.17E-08	1.53E-08	4.02E-10	0.00E+00	1.57E-08
164	457809.5	3768275	1.324E-07	6.79E-09	0.00E+00	1.39E-07	1.32E-07	6.79E-09	0.00E+00	1.39E-07	3.97E-08	1.22E-09	0.00E+00	4.09E-08	1.50E-08	3.94E-10	0.00E+00	1.54E-08
165	457805.9	3768284	1.291E-07	6.62E-09	0.00E+00	1.36E-07	1.29E-07	6.62E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.46E-08	3.84E-10	0.00E+00	1.50E-08
166	457802.3	3768293	1.252E-07	6.42E-09	0.00E+00	1.32E-07	1.25E-07	6.42E-09	0.00E+00	1.32E-07	3.75E-08	1.15E-09	0.00E+00	3.86E-08	1.42E-08	3.72E-10	0.00E+00	1.46E-08
167	457798.7	3768302	1.207E-07	6.19E-09	0.00E+00	1.27E-07	1.21E-07	6.19E-09	0.00E+00	1.27E-07	3.62E-08	1.11E-09	0.00E+00	3.73E-08	1.37E-08	3.59E-10	0.00E+00	1.41E-08
168	457795.1	3768311	1.159E-07	5.94E-09	0.00E+00	1.22E-07	1.16E-07	5.94E-09	0.00E+00	1.22E-07	3.47E-08	1.07E-09	0.00E+00	3.58E-08	1.32E-08	3.45E-10	0.00E+00	1.35E-08
169	457782.6	3768324	1.104E-07	5.66E-09	0.00E+00	1.16E-07	1.10E-07	5.66E-09	0.00E+00	1.16E-07	3.31E-08	1.02E-09	0.00E+00	3.41E-08	1.25E-08	3.29E-10	0.00E+00	1.29E-08
170	457773.7	3768327	1.095E-07	5.61E-09	0.00E+00	1.15E-07	1.10E-07	5.61E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.26E-10	0.00E+00	1.27E-08
171	457764.8	3768331	1.081E-07	5.54E-09	0.00E+00	1.14E-07	1.08E-07	5.54E-09	0.00E+00	1.14E-07	3.24E-08	9.97E-10	0.00E+00	3.34E-08	1.23E-08	3.22E-10	0.00E+00	1.26E-08
172	457755.9	3768335	1.063E-07	5.45E-09	0.00E+00	1.12E-07	1.06E-07	5.45E-09	0.00E+00	1.12E-07	3.18E-08	9.80E-10	0.00E+00	3.28E-08	1.21E-08	3.16E-10	0.00E+00	1.24E-08
173	457747	3768338	1.041E-07	5.34E-09	0.00E+00	1.09E-07	1.04E-07	5.34E-09	0.00E+00	1.09E-07	3.12E-08	9.60E-10	0.00E+00	3.22E-08	1.18E-08	3.10E-10	0.00E+00	1.21E-08
174	457738.2	3768342	1.017E-07	5.21E-09	0.00E+00	1.07E-07	1.02E-07	5.21E-09	0.00E+00	1.07E-07	3.04E-08	9.37E-10	0.00E+00	3.14E-08	1.15E-08	3.03E-10	0.00E+00	1.18E-08
175	457827.5	3768231	1.368E-07	7.01E-09	0.00E+00	1.44E-07	1.37E-07	7.01E-09	0.00E+00	1.44E-07	4.10E-08	1.26E-09	0.00E+00	4.22E-08	1.55E-08	4.07E-10	0.00E+00	1.59E-08
176	457827.4	3768221	1.383E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.27E-09	0.00E+00	4.27E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
177	457827.3	3768211	1.39E-07	7.13E-09	0.00E+00	1.46E-07	1.39E-07	7.13E-09	0.00E+00	1.46E-07	4.16E-08	1.28E-09	0.00E+00	4.29E-08	1.58E-08	4.14E-10	0.00E+00	1.62E-08
178	457827.2	3768202	1.388E-07	7.12E-09	0.00E+00	1.46E-07	1.39E-07	7.12E-09	0.00E+00	1.46E-07	4.16E-08	1.28E-09	0.00E+00	4.29E-08	1.58E-08	4.13E-10	0.00E+00	1.62E-08
179	457827.1	3768192	1.377E-07	7.06E-09	0.00E+00	1.45E-07	1.38E-07	7.06E-09	0.00E+00	1.45E-07	4.12E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
180	457827	3768182	1.357E-07	6.95E-09	0.00E+00	1.43E-07	1.36E-07	6.95E-09	0.00E+00	1.43E-07	4.06E-08	1.25E-09	0.00E+00	4.19E-08	1.54E-08	4.04E-10	0.00E+00	1.58E-08
181	457826.9	3768173	1.327E-07	6.80E-09	0.00E+00	1.40E-07	1.33E-07	6.80E-09	0.00E+00	1.40E-07	3.97E-08	1.22E-09	0.00E+00	4.10E-08	1.51E-08	3.95E-10	0.00E+00	1.55E-08
182	457826.8	3768163	1.29E-07	6.61E-09	0.00E+00	1.36E-07	1.29E-07	6.61E-09	0.00E+00	1.36E-07	3.86E-08	1.19E-09	0.00E+00	3.98E-08	1.46E-08	3.84E-10	0.00E+00	1.50E-08
183	457826.6	3768153	1.245E-07	6.38E-09	0.00E+00	1.31E-07	1.24E-07	6.38E-09	0.00E+00	1.31E-07	3.73E-08	1.15E-09	0.00E+00	3.84E-08	1.41E-08	3.70E-10	0.00E+00	1.45E-08
184	457826.5	3768144	1.194E-07	6.12E-09	0.00E+00	1.25E-07	1.19E-07	6.12E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
185	457826.4	3768134	1.137E-07	5.83E-09	0.00E+00	1.20E-07	1.14E-07	5.83E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.51E-08	1.29E-08	3.38E-10	0.00E+00	1.32E-08
186	457825.7	3768076	7.53E-08	3.86E-09	0.00E+00	7.92E-08	7.53E-08	3.86E-09	0.00E+00	7.92E-08	2.26E-08	6.94E-10	0.00E+00	2.32E-08	8.54E-09	2.24E-10	0.00E+00	8.77E-09
187	457825.6	3768067	6.921E-08	3.55E-09	0.00E+00	7.28E-08	6.92E-08	3.55E-09	0.00E+00	7.28E-08	2.07E-08	6.38E-10	0.00E+00	2.14E-08	7.85E-09	2.06E-10	0.00E+00	8.06E-09
188	457825.5	3768057	6.35E-08	3.26E-09	0.00E+00	6.68E-08	6.35E-08	3.26E-09	0.00E+00	6.68E-08	1.90E-08	5.85E-10	0.00E+00	1.96E-08	7.20E-09	1.89E-10	0.00E+00	7.39E-09
189	457825.4	3768047	5.823E-08	2.99E-09	0.00E+00	6.12E-08	5.82E-08	2.99E-09	0.00E+00	6.12E-08	1.74E-08	5.37E-10	0.00E+00	1.80E-08	6.61E-09	1.73E-10	0.00E+00	6.78E-09
190	457825.3	3768038	5.344E-08	2.74E-09	0.00E+00	5.62E-08	5.34E-08	2.74E-09	0.00E+00	5.62E-08	1.60E-08	4.93E-10	0.00E+00	1.65E-08	6.06E-09	1.59E-10	0.00E+00	6.22E-09
191	457825.2	3768028	4.912E-08	2.52E-09	0.00E+00	5.16E-08	4.91E-08	2.52E-09	0.00E+00	5.16E-08	1.47E-08	4.53E-10	0.00E+00	1.52E-08	5.57E-09	1.46E-10	0.00E+00	5.72E-09
192	457848.9	3768239	1.19E-07	6.10E-09	0.00E+00	1.25E-07	1.19E-07	6.10E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.67E-08	1.35E-08	3.54E-10	0.00E+00	1.39E-08
193	457845.3	3768248	1.199E-07	6.15E-09	0.00E+00	1.26E-07	1.20E-07	6.15E-09	0.00E+00	1.26E-07	3.59E-08	1.11E-09	0.00E+00	3.70E-08	1.36E-08	3.57E-10	0.00E+00	1.40E-08
194	457841.7	3768257	1.201E-07	6.16E-09	0.00E+00	1.26E-07	1.20E-07	6.16E-09	0.00E+00	1.26E-07	3.60E-08	1.11E-09	0.00E+00	3.71E-08	1.36E-08	3.57E-10	0.00E+00	1.40E-08
195	457838.1	3768266	1.196E-07	6.13E-09	0.00E+00	1.26E-07	1.20E-07	6.13E-09	0.00E+00	1.26E-07	3.58E-08	1.10E-09	0.00E+00	3.69E-08	1.36E-08	3.56E-10	0.00E+00	1.39E-08
196	457834.5	3768275	1.184E-07	6.07E-09	0.00E+00	1.24E-07	1.18E-07	6.07E-09	0.00E+00	1.24E-07	3.55E-08	1.09E-09	0.00E+00	3.65E-08	1.34E-08	3.52E-10	0.00E+00	1.38E-08
197	457830.9	3768284	1.165E-07	5.97E-09	0.00E+00	1.23E-07	1.17E-07	5.97E-09	0.00E+00	1.23E-07	3.49E-08	1.07E-09	0.00E+00	3.60E-08	1.32E-08	3.47E-10	0.00E+00	1.36E-08
198	457827.3	3768293	1.141E-07	5.85E-09	0.00E+00	1.20E-07	1.14E-07	5.85E-09	0.00E+00	1.20E-07	3.42E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.40E-10	0.00E+00	1.33E-08
199	457823.7	3768302	1.113E-07	5.70E-09	0.00E+00	1.17E-07	1.11E-07	5.70E-09	0.00E+00	1.17E-07	3.33E-08	1.03E-09	0.00E+00	3.43E-08	1.26E-08	3.31E-10	0.00E+00	1.30E-08
200	457820.1	3768311	1.08E-07	5.53E-09	0.00E+00	1.13E-07	1.08E-07	5.53E-09	0.00E+00	1.13E-07	3.23E-08	9.95E-10	0.00E+00	3.33E-08	1.22E-08	3.21E-10	0.00E+00	1.26E-08
201	457816.5	3768320	1.079E-07	5.53E-09	0.00E+00	1.13E-07	1.08E-07	5.53E-09	0.00E+00	1.13E-07	3.23E-08	9.95E-10	0.00E+00	3.33E-08	1.22E-08	3.21E-10	0.00E+00	1.26E-08
202	457812.9	3768328	1.036E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.55E-10	0.00E+00	3.20E-08	1.17E-08	3.08E-10	0.00E+00	1.21E-08
203	457800.4	3768341	9.593E-08	4.92E-09	0.00E+00	1.01E-07	9.59E-08	4.92E-09	0.00E+00	1.01E-07	2.87E-08	8.84E-10	0.00E+00	2.96E-08	1.09E-08	2.85E-10	0.00E+00	1.12E-08
204	457791.5	3768345	9.514E-08	4.88E-09	0.00E+00	1.00E-07	9.51E-08	4.88E-09	0.00E+00	1.00E-07	2.85E-08	8.77E-10	0.00E+00	2.94E-08	1.08E-08	2.83E-10	0.00E+00	1.11E-08
205	457782.6	3768349	9.547E-08	4.89E-09	0.00E+00	1.00E-07	9.55E-08	4.89E-09	0.00E+00	1.00E-07	2.86E-08	8.80E-10	0.00E+00	2.95E-08	1.08E-08	2.84E-10	0.00E+00	1.11E-08
206	457773.7	3768352	9.258E-08	4.75E-09	0.00E+00	9.73E-08	9.26E-08	4.75E-09	0.00E+00	9.73E-08	2.77E-08	8.53E-10	0.00E+00	2.86E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
207	457764.8	3768356	9.085E-08	4.66E-09	0.00E+00	9.55E-08	9.09E-08	4.66E-09	0.00E+00	9.55E-08	2.72E-08	8.37E-10	0.00E+00	2.80E-08	1.03E-08	2.70E-10	0.00E+00	1.06E-08
208	457755.9	3768360	8.887E-08	4.56E-09	0.00E+00	9.34E-08	8.89E-08	4.56E-09	0.00E+00	9.34E-08	2.66E-08	8.19E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
209	457747.1	3768363	8.665E-08	4.44E-09	0.00E+00	9.11E-08	8.67E-08	4.44E-09	0.00E+00	9.11E-08	2.60E-08	7.99E-10	0.00E+00	2.68E-08	9.83E-09	2.58E-10	0.00E+00	1.01E-08
210	457738.2	3768367	8.425E-08	4.32E-09	0.00E+00	8.86E-08	8.43E-08	4.32E-09	0.00E+00	8.86E-08	2.52E-08	7.77E-10	0.00E+00	2.60E-08	9.56E-09	2.51E-10	0.00E+00	9.81E-09
211	457852.5	3768230	1.175E-07	6.02E-09	0.00E+00	1.23E-07	1.17E-07	6.02E-09	0.00E+00	1.23E-07	3.52E-08	1.08E-09	0.00E+00	3.63E-08	1.33E-08	3.50E-10	0.00E+00	1.37E-08
212	457852.4	3768221	1.179E-07	6.04E-09	0.00E+00	1.24E-07	1.18E-07	6.04E-09	0.00E+00	1.24E-07	3.53E-08	1.09E-09	0.00E+00	3.64E-08	1.34E-08	3.51E-10	0.00E+00	1.37E-08
213	457852.3	3768211	1.178E-07	6.04E-09	0.00E+00	1.24E-07	1.18E-07	6.04E-09	0.00E+00	1.24E-07	3.53E-08	1.09E-09	0.00E+00	3.64E-08	1.34E-08	3.50E-10	0.00E+00	1.37E-08
214	457852.2	3768201	1.17E-07	6.00E-09	0.00E+00	1.23E-07	1.17E-07	6.00E-09	0.00E+00	1.23E-07	3.50E-08	1.08E-09	0.00E+00	3.61E-08	1.33E-08	3.48E-10	0.00E+00	1.36E-08
215	457852.1	3768192	1.155E-07	5.92E-09	0.00E+00	1.21E-07	1.16E-07	5.92E-09	0.00E+00	1.21E-07	3.46E-08	1.06E-09	0.00E+00	3.57E-08	1.31E-08	3.44E-10	0.00E+00	1.34E-08
216	457852	3768182	1.134E-07	5.81E-09	0.00E+00	1.19E-07	1.13E-07	5.81E-09	0.00E+00	1.19E-07	3.40E-08	1.05E-09	0.00E+00	3.50E-08	1.29E-08	3.37E-10	0.00E+00	1.32E-08
217	457851.9	3768172	1.107E-07	5.68E-09	0.00E+00	1.16E-07	1.11E-07	5.68E-09	0.00E+00	1.16E-07	3.32E-08	1.02E-09	0.00E+00	3.42E-08	1.26E-08	3.29E-10	0.00E+00	1.29E-08
218	457851.8	3768163	1.074E-07	5.51E-09	0.00E+00	1.13E-07	1.07E-07	5.51E-09	0.00E+00	1.13E-07	3.22E-08	9.90E-10	0.00E+00	3.32E-08	1.22E-08	3.20E-10	0.00E+00	1.25E-08
219	457851.6	3768153	1.036E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.55E-10	0.00E+00	3.20E-08	1.18E-08	3.08E-10	0.00E+00	1.21E-08
220	457851.5	3768144	9.933E-08	5.09E-09	0.00E+00	1.04E-07	9.93E-08	5.09E-09	0.00E+00	1.04E-07	2.98E-08	9.16E-10	0.00E+00	3.07E-08	1.13E-08	2.96E-10	0.00E+00	1.16E-08
221	457851.4	3768134	9.471E-08	4.86E-09	0.00E+00	9.96E-08	9.47E-08	4.86E-09	0.00E+00	9.96E-08	2.84E-08	8.73E-10	0.00E+00	2.92E-08	1.07E-08	2.82E-10	0.00E+00	1.10E-08

222	457850.7	3768076	6.448E-08	3.31E-09	0.00E+00	6.78E-08	6.45E-08	3.31E-09	0.00E+00	6.78E-08	1.93E-08	5.94E-10	0.00E+00	1.99E-08	7.32E-09	1.92E-10	0.00E+00	7.51E-09
223	457850.6	3768066	5.976E-08	3.06E-09	0.00E+00	6.28E-08	5.98E-08	3.06E-09	0.00E+00	6.28E-08	1.79E-08	5.51E-10	0.00E+00	1.84E-08	6.78E-09	1.78E-10	0.00E+00	6.96E-09
224	457850.5	3768057	5.53E-08	2.83E-09	0.00E+00	5.81E-08	5.53E-08	2.83E-09	0.00E+00	5.81E-08	1.66E-08	5.10E-10	0.00E+00	1.71E-08	6.27E-09	1.65E-10	0.00E+00	6.44E-09
225	457850.4	3768047	5.114E-08	2.62E-09	0.00E+00	5.38E-08	5.11E-08	2.62E-09	0.00E+00	5.38E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.80E-09	1.52E-10	0.00E+00	5.95E-09
226	457850.3	3768037	4.727E-08	2.42E-09	0.00E+00	4.97E-08	4.73E-08	2.42E-09	0.00E+00	4.97E-08	1.42E-08	4.36E-10	0.00E+00	1.46E-08	5.36E-09	1.41E-10	0.00E+00	5.50E-09
227	457850.2	3768028	4.374E-08	2.24E-09	0.00E+00	4.60E-08	4.37E-08	2.24E-09	0.00E+00	4.60E-08	1.31E-08	4.03E-10	0.00E+00	1.35E-08	4.96E-09	1.30E-10	0.00E+00	5.09E-09
228	457873.9	3768239	1.037E-07	5.32E-09	0.00E+00	1.09E-07	1.04E-07	5.32E-09	0.00E+00	1.09E-07	3.11E-08	9.56E-10	0.00E+00	3.20E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
229	457870.3	3768248	1.05E-07	5.38E-09	0.00E+00	1.10E-07	1.05E-07	5.38E-09	0.00E+00	1.10E-07	3.14E-08	9.68E-10	0.00E+00	3.24E-08	1.19E-08	3.12E-10	0.00E+00	1.22E-08
230	457866.7	3768257	1.058E-07	5.42E-09	0.00E+00	1.11E-07	1.06E-07	5.42E-09	0.00E+00	1.11E-07	3.17E-08	9.75E-10	0.00E+00	3.27E-08	1.20E-08	3.15E-10	0.00E+00	1.23E-08
231	457863.1	3768266	1.06E-07	5.43E-09	0.00E+00	1.11E-07	1.06E-07	5.43E-09	0.00E+00	1.11E-07	3.18E-08	9.77E-10	0.00E+00	3.27E-08	1.20E-08	3.15E-10	0.00E+00	1.23E-08
232	457859.5	3768275	1.057E-07	5.42E-09	0.00E+00	1.11E-07	1.06E-07	5.42E-09	0.00E+00	1.11E-07	3.17E-08	9.74E-10	0.00E+00	3.26E-08	1.20E-08	3.15E-10	0.00E+00	1.23E-08
233	457855.9	3768284	1.049E-07	5.38E-09	0.00E+00	1.10E-07	1.05E-07	5.38E-09	0.00E+00	1.10E-07	3.14E-08	9.67E-10	0.00E+00	3.24E-08	1.19E-08	3.12E-10	0.00E+00	1.22E-08
234	457852.3	3768292	1.083E-07	5.55E-09	0.00E+00	1.14E-07	1.08E-07	5.55E-09	0.00E+00	1.14E-07	3.24E-08	9.98E-10	0.00E+00	3.34E-08	1.23E-08	3.22E-10	0.00E+00	1.26E-08
235	457848.7	3768301	1.064E-07	5.45E-09	0.00E+00	1.12E-07	1.06E-07	5.45E-09	0.00E+00	1.12E-07	3.19E-08	9.81E-10	0.00E+00	3.28E-08	1.21E-08	3.17E-10	0.00E+00	1.24E-08
236	457845.1	3768310	1.039E-07	5.33E-09	0.00E+00	1.09E-07	1.04E-07	5.33E-09	0.00E+00	1.09E-07	3.11E-08	9.58E-10	0.00E+00	3.21E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
237	457841.5	3768319	1.011E-07	5.18E-09	0.00E+00	1.06E-07	1.01E-07	5.18E-09	0.00E+00	1.06E-07	3.03E-08	9.32E-10	0.00E+00	3.12E-08	1.15E-08	3.01E-10	0.00E+00	1.18E-08
238	457837.9	3768328	9.799E-08	5.02E-09	0.00E+00	1.03E-07	9.80E-08	5.02E-09	0.00E+00	1.03E-07	2.94E-08	9.03E-10	0.00E+00	3.03E-08	1.11E-08	2.92E-10	0.00E+00	1.14E-08
239	457834.3	3768337	9.458E-08	4.85E-09	0.00E+00	9.94E-08	9.46E-08	4.85E-09	0.00E+00	9.94E-08	2.83E-08	8.72E-10	0.00E+00	2.92E-08	1.07E-08	2.81E-10	0.00E+00	1.10E-08
240	457830.7	3768346	9.095E-08	4.66E-09	0.00E+00	9.56E-08	9.09E-08	4.66E-09	0.00E+00	9.56E-08	2.72E-08	8.38E-10	0.00E+00	2.81E-08	1.03E-08	2.71E-10	0.00E+00	1.06E-08
241	457818.2	3768359	8.637E-08	4.43E-09	0.00E+00	9.08E-08	8.64E-08	4.43E-09	0.00E+00	9.08E-08	2.59E-08	7.96E-10	0.00E+00	2.67E-08	9.80E-09	2.57E-10	0.00E+00	1.01E-08
242	457809.3	3768362	8.531E-08	4.37E-09	0.00E+00	8.97E-08	8.53E-08	4.37E-09	0.00E+00	8.97E-08	2.56E-08	7.86E-10	0.00E+00	2.63E-08	9.68E-09	2.54E-10	0.00E+00	9.93E-09
243	457800.4	3768366	8.399E-08	4.31E-09	0.00E+00	8.83E-08	8.40E-08	4.31E-09	0.00E+00	8.83E-08	2.52E-08	7.74E-10	0.00E+00	2.59E-08	9.53E-09	2.50E-10	0.00E+00	9.78E-09
244	457791.5	3768370	8.245E-08	4.23E-09	0.00E+00	8.67E-08	8.25E-08	4.23E-09	0.00E+00	8.67E-08	2.47E-08	7.60E-10	0.00E+00	2.55E-08	9.35E-09	2.45E-10	0.00E+00	9.60E-09
245	457782.6	3768374	8.072E-08	4.14E-09	0.00E+00	8.49E-08	8.07E-08	4.14E-09	0.00E+00	8.49E-08	2.42E-08	7.44E-10	0.00E+00	2.49E-08	9.16E-09	2.40E-10	0.00E+00	9.40E-09
246	457773.7	3768377	7.878E-08	4.04E-09	0.00E+00	8.28E-08	7.88E-08	4.04E-09	0.00E+00	8.28E-08	2.36E-08	7.26E-10	0.00E+00	2.43E-08	8.94E-09	2.34E-10	0.00E+00	9.17E-09
247	457764.8	3768381	7.66E-08	3.93E-09	0.00E+00	8.05E-08	7.66E-08	3.93E-09	0.00E+00	8.05E-08	2.29E-08	7.06E-10	0.00E+00	2.37E-08	8.69E-09	2.28E-10	0.00E+00	8.92E-09
248	457756	3768385	7.429E-08	3.81E-09	0.00E+00	7.81E-08	7.43E-08	3.81E-09	0.00E+00	7.81E-08	2.23E-08	6.85E-10	0.00E+00	2.29E-08	8.43E-09	2.21E-10	0.00E+00	8.65E-09
249	457747.1	3768388	7.186E-08	3.68E-09	0.00E+00	7.55E-08	7.19E-08	3.68E-09	0.00E+00	7.55E-08	2.15E-08	6.62E-10	0.00E+00	2.22E-08	8.15E-09	2.14E-10	0.00E+00	8.37E-09
250	457738.2	3768392	6.94E-08	3.56E-09	0.00E+00	7.30E-08	6.94E-08	3.56E-09	0.00E+00	7.30E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.87E-09	2.07E-10	0.00E+00	8.08E-09
251	457877.5	3768230	1.019E-07	5.22E-09	0.00E+00	1.07E-07	1.02E-07	5.22E-09	0.00E+00	1.07E-07	3.05E-08	9.39E-10	0.00E+00	3.15E-08	1.16E-08	3.03E-10	0.00E+00	1.19E-08
252	457877.4	3768220	1.017E-07	5.21E-09	0.00E+00	1.07E-07	1.02E-07	5.21E-09	0.00E+00	1.07E-07	3.05E-08	9.38E-10	0.00E+00	3.14E-08	1.15E-08	3.03E-10	0.00E+00	1.18E-08
253	457877.3	3768211	1.011E-07	5.18E-09	0.00E+00	1.06E-07	1.01E-07	5.18E-09	0.00E+00	1.06E-07	3.03E-08	9.32E-10	0.00E+00	3.12E-08	1.15E-08	3.01E-10	0.00E+00	1.18E-08
254	457877.2	3768201	9.992E-08	5.12E-09	0.00E+00	1.05E-07	9.99E-08	5.12E-09	0.00E+00	1.05E-07	2.99E-08	9.21E-10	0.00E+00	3.08E-08	1.13E-08	2.97E-10	0.00E+00	1.16E-08
255	457877.1	3768191	9.835E-08	5.04E-09	0.00E+00	1.03E-07	9.83E-08	5.04E-09	0.00E+00	1.03E-07	2.95E-08	9.07E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.15E-08
256	457877	3768182	9.636E-08	4.94E-09	0.00E+00	1.01E-07	9.64E-08	4.94E-09	0.00E+00	1.01E-07	2.89E-08	8.88E-10	0.00E+00	2.97E-08	1.09E-08	2.87E-10	0.00E+00	1.12E-08
257	457876.9	3768172	9.394E-08	4.82E-09	0.00E+00	9.88E-08	9.39E-08	4.82E-09	0.00E+00	9.88E-08	2.81E-08	8.66E-10	0.00E+00	2.90E-08	1.07E-08	2.80E-10	0.00E+00	1.09E-08
258	457876.8	3768162	9.108E-08	4.67E-09	0.00E+00	9.57E-08	9.11E-08	4.67E-09	0.00E+00	9.57E-08	2.73E-08	8.40E-10	0.00E+00	2.81E-08	1.03E-08	2.71E-10	0.00E+00	1.06E-08
259	457876.6	3768153	8.783E-08	4.50E-09	0.00E+00	9.23E-08	8.78E-08	4.50E-09	0.00E+00	9.23E-08	2.63E-08	8.10E-10	0.00E+00	2.71E-08	9.96E-09	2.61E-10	0.00E+00	1.02E-08
260	457876.5	3768143	8.428E-08	4.32E-09	0.00E+00	8.86E-08	8.43E-08	4.32E-09	0.00E+00	8.86E-08	2.52E-08	7.77E-10	0.00E+00	2.60E-08	9.56E-09	2.51E-10	0.00E+00	9.81E-09
261	457876.4	3768134	8.049E-08	4.13E-09	0.00E+00	8.46E-08	8.05E-08	4.13E-09	0.00E+00	8.46E-08	2.41E-08	7.42E-10	0.00E+00	2.48E-08	9.13E-09	2.40E-10	0.00E+00	9.37E-09
262	457875.7	3768076	5.612E-08	2.88E-09	0.00E+00	5.90E-08	5.61E-08	2.88E-09	0.00E+00	5.90E-08	1.68E-08	5.17E-10	0.00E+00	1.73E-08	6.37E-09	1.67E-10	0.00E+00	6.53E-09
263	457875.6	3768066	5.236E-08	2.68E-09	0.00E+00	5.50E-08	5.24E-08	2.68E-09	0.00E+00	5.50E-08	1.57E-08	4.83E-10	0.00E+00	1.62E-08	5.94E-09	1.56E-10	0.00E+00	6.10E-09
264	457875.5	3768056	4.88E-08	2.50E-09	0.00E+00	5.13E-08	4.88E-08	2.50E-09	0.00E+00	5.13E-08	1.46E-08	4.50E-10	0.00E+00	1.51E-08	5.54E-09	1.45E-10	0.00E+00	5.68E-09
265	457875.4	3768047	4.544E-08	2.33E-09	0.00E+00	4.78E-08	4.54E-08	2.33E-09	0.00E+00	4.78E-08	1.36E-08	4.19E-10	0.00E+00	1.40E-08	5.16E-09	1.35E-10	0.00E+00	5.29E-09
266	457875.3	3768037	4.227E-08	2.17E-09	0.00E+00	4.44E-08	4.23E-08	2.17E-09	0.00E+00	4.44E-08	1.27E-08	3.90E-10	0.00E+00	1.30E-08	4.80E-09	1.26E-10	0.00E+00	4.92E-09
267	457875.2	3768028	3.933E-08	2.02E-09	0.00E+00	4.14E-08	3.93E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.58E-09
268	457898.9	3768239	9.099E-08	4.66E-09	0.00E+00	9.57E-08	9.10E-08	4.66E-09	0.00E+00	9.57E-08	2.73E-08	8.39E-10	0.00E+00	2.81E-08	1.03E-08	2.71E-10	0.00E+00	1.06E-08
269	457895.3	3768248	9.248E-08	4.74E-09	0.00E+00	9.72E-08	9.25E-08	4.74E-09	0.00E+00	9.72E-08	2.77E-08	8.53E-10	0.00E+00	2.86E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
270	457891.7	3768256	9.358E-08	4.80E-09	0.00E+00	9.84E-08	9.36E-08	4.80E-09	0.00E+00	9.84E-08	2.80E-08	8.63E-10	0.00E+00	2.89E-08	1.06E-08	2.78E-10	0.00E+00	1.09E-08
271	457888.1	3768265	9.86E-08	5.05E-09	0.00E+00	1.04E-07	9.86E-08	5.05E-09	0.00E+00	1.04E-07	2.95E-08	9.09E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.15E-08
272	457884.5	3768274	9.904E-08	5.08E-09	0.00E+00	1.04E-07	9.90E-08	5.08E-09	0.00E+00	1.04E-07	2.97E-08	9.13E-10	0.00E+00	3.06E-08	1.12E-08	2.95E-10	0.00E+00	1.15E-08
273	457880.9	3768283	9.896E-08	5.07E-09	0.00E+00	1.04E-07	9.90E-08	5.07E-09	0.00E+00	1.04E-07	2.96E-08	9.12E-10	0.00E+00	3.06E-08	1.12E-08	2.94E-10	0.00E+00	1.15E-08
274	457877.3	3768292	9.84E-08	5.04E-09	0.00E+00	1.03E-07	9.84E-08	5.04E-09	0.00E+00	1.03E-07	2.95E-08	9.07E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.15E-08
275	457873.7	3768301	9.742E-08	4.99E-09	0.00E+00	1.02E-07	9.74E-08	4.99E-09	0.00E+00	1.02E-07	2.92E-08	8.98E-10	0.00E+00	3.01E-08	1.11E-08	2.90E-10	0.00E+00	1.13E-08
276	457870.1	3768310	9.603E-08	4.92E-09	0.00E+00	1.01E-07	9.60E-08	4.92E-09	0.00E+00	1.01E-07	2.88E-08	8.85E-10	0.00E+00	2.96E-08	1.09E-08	2.86E-10	0.00E+00	1.12E-08
277	457866.5	3768319	9.419E-08	4.83E-09	0.00E+00	9.90E-08	9.42E-08	4.83E-09	0.00E+00	9.90E-08	2.82E-08	8.68E-10	0.00E+00	2.91E-08	1.07E-08	2.80E-10	0.00E+00	1.10E-08
278	457862.9	3768328	9.197E-08	4.71E-09	0.00E+00	9.67E-08	9.20E-08	4.71E-09	0.00E+00	9.67E-08	2.75E-08	8.48E-10	0.00E+00	2.84E-08	1.04E-08	2.74E-10	0.00E+00	1.07E-08
279	457859.3	3768337	8.946E-08	4.59E-09	0.00E+00	9.40E-08	8.95E-08	4.59E-09	0.00E+00	9.40E-08	2.68E-08	8.25E-10	0.00E+00	2.76E-08	1.01E-08	2.66E-10	0.00E+00	1.04E-08
280	457855.7	3768346	8.671E-08	4.45E-09	0.00E+00	9.12E-08	8.67E-08	4.45E-09	0.00E+00	9.12E-08	2.60E-08	7.99E-10	0.00E+00	2.68E-08	9.84E-09	2.58E-10	0.00E+00	1.01E-08
281	457852	3768355	8.375E-08	4.29E-09	0.00E+00	8.80E-08	8.37E-08	4.29E-09	0.00E+00	8.80E-08	2.51E-08	7.72E-10	0.00E+00	2.59E-08	9.50E-09	2.49E-10	0.00E+00	9.75E-09
282	457848.4	3768364	8.064E-08	4.13E-09	0.00E+00	8.48E-08	8.06E-08	4.13E-09	0.00E+00	8.48E-08	2.42E-08	7.43E-10	0.00E+00	2.49E-08	9.15E-09	2.40E-10	0.00E+00	9.39E-09
283	457835.9	3768376	7.669E-08	3.93E-09	0.00E+00	8.06E-08	7.67E-08	3.93E-09	0.00E+00	8.06E-08	2.30E-08	7.07E-10	0.00E+00	2.37E-08	8.70E-09	2.28E-10	0.00E+00	8.93E-09
284	457827.1	3768380	7.574E-08	3.88E-09	0.00E+00	7.96E-08	7.57E-08	3.88E-09	0.00E+00	7.96E-08	2.27E-08	6.98E-10	0.00E+00	2.34E-08	8.59E-09	2.25E-10	0.00E+00	8.82E-09
285	457818.2	3768384	7.457E-08	3.82E-09	0.00E+00	7.84E-08	7.46E-08	3.82E-09	0.00E+00	7.84E-08	2.23E-08	6.87E-10	0.00E+00	2.30E-08	8.46E-09	2.22E-10	0.00E+00	8.68E-09
286	457809.3	3768387	7.322E-08	3.75E-09	0.00E+00	7.70E-08	7.32E-08	3.75E-09	0.00E+00	7.70E-08	2.19E-08	6.75E-10	0.00E+00	2.26E-08	8.31E-09	2.18E-10	0.00E+00	8.52E-09
287	457800.4	3768391	7.171E-08	3.68E-09	0.00E+00	7.54E-08	7.17E-08	3.68E-09	0.00E+00	7.54E-08	2.15E-08	6.61E-10	0.00E+00	2.21E-08	8.14E-09	2.13E-10	0.00E+00	8.35E-09
288	457791.5	3768395	7.004E-08	3.59E-09	0.00E+00	7.36E-08	7.00E-08	3.59E-09	0.00E+00	7.36E-08	2.10E-08	6.46E-10	0.00E+00	2.16E-08	7.95E-09	2.08E-10	0.00E+00	8.15E-09
289	457902.5	3768230	9.232E-08	4.73E-09	0.00E+00	9.71E-08	9.23E-08	4.73E-09	0.00E+00	9.71E-08	2.77E-08	8.51E-10	0.00E+00	2.85E-08	1.05E-08	2.75E-10	0.00E+00	1.07E-08
290	457902.4	3768220	8.862E-08	4.54E-09	0.00E+00	9.32E-08	8.86E-08	4.54E-09	0.00E+00	9.32E-08	2.65E-08	8.17E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
291	457902.3	3768210	8.774E-08	4.50E-09	0.00E+00	9.22E-08	8.77E-08	4.50E-09	0.00E+00	9.22E-08	2.63E-08	8.09E-10	0.00E+00	2.71E-08	9.95E-09	2.61E-10	0.00E+00	1.02E-08
292	457902.2	3768201	8.649E-08	4.43E-09	0.00E+00	9.09E-08	8.65E-08	4.43E-09	0.00E+00	9.09E-08	2.59E-08	7.97E-10	0.00E+00	2.67E-08	9.81E-09	2.57E-10	0.00E+00	1.01E-08
293	457902.1	3768191	8.493E-08	4.35E-09	0.00E+00	8.93E-08	8.49E-08	4.35E-09	0.00E+00	8.93E-08	2.54E-08	7.83E-10	0.00E+00	2.62E-08	9.64E-09	2.53E-10	0.00E+00	9.89E-09
294	457902	3768181	8.306E-08	4.26E-09	0.00E+00	8.73E-08	8.31E-08	4.26E-09	0.00E+00	8.73E-08	2.49E-08	7.66E-10	0.00E+00	2.56E-08	9.42E-09	2.47E-10	0.00E+00	9.67E-09
295	457901.9	3768172	8.087E-08	4.15E-09	0.00E+00	8.50E-08	8.09E-08	4.15E-09	0.00E+00	8.50E-08	2.42E-08	7.45E-10	0.00E+00	2.50E-08	9.17E-09	2.41E-10	0.00E+00	9.42E-09
296	457901.8	3768162	7.837E-08	4.02E-09	0.00E+00	8.24E-08	7.84E-08	4.02E-09	0.00E+00	8.24E-08	2.35E-08	7.22E-10	0.00E+00	2.42E-08	8.89E-09	2.33E-10	0.00E+00	9.12E-09
297	457901.6	3768153	7.56E-08	3.88E-09	0.00E+00	7.95E-08	7.56E-08	3.88E-09	0.00E+00	7.95E-08	2.26E-08	6.97E-10	0.00E+00	2.33E-08	8.58E-09	2.25E-10	0.00E+00	8.80E-09
298	457901.5	3768143	7.262E-08	3.72E-09	0.00E+00	7.63E-08	7.26E-08	3.72E-09	0.00E+00	7.63E-08	2.18E-08	6.69E-10	0.00E+00	2.24E-08	8.24E-09	2.16E-10	0.00E+00	8.46E-09
299	457901.4	3768133	6.947E-08	3.56E-09	0.00E+00	7.30E-08	6.95E-08	3.56E-09	0.00E+00	7.30E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.88E-09	2.07E-10	0.00E+00	8.09E-09
300	457900.7	3768075	4.956E-08	2.54E-09	0.00E+00	5.21E-08	4.96E-08	2.54E-09	0.00E+00	5.21E-08	1.48E-08	4.57E-10	0.00E+00	1.53E-08	5.62E-09	1.47E-10	0.00E+00	5.77E-09
301	457900.6	3768066	4.649E-08	2.38E-09	0.00E+00	4.89E-08	4.65E-08	2.38E-09	0.00E+00	4.89E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.27E-09	1.38E-10	0.00E+00	5.41E-09
302	457900.5	3768056	4.355E-08	2.23E-09	0.00E+00	4.58E-08	4.35E-08	2.23E-09	0.00E+00	4.58E-08	1.30E-08	4.01E-10	0.00E+00	1.34E-08	4.94E-09	1.30E-10	0.00E+00	5.07E-09
303	457900.4	3768047	4.076E-08	2.09E-09	0.00E+00	4.29E-08	4.08E-08	2.09E-09	0.00E+00	4.29E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.75E-09
304	457900.3	3768037	3.812E-08	1.95E-09	0.00E+00	4.01E-08	3.81E-08	1.95E-09	0.00E+00	4.01E-08	1.14E-08	3.51E-10	0.00E+00	1.18E-08	4.32E-09	1.13E-10	0.00E+00	4.44E-09
305	457900.2	3768027	3.565E-08	1.83E-09	0.00E+00	3.75E-08	3.56E-08	1.83E-09	0.00E+00	3.75E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.04E-09	1.06E-10	0.00E+00	4.15E-09
306	457923.9	3768238	8.34E-08	4.28E-09	0.00E+00	8.77E-08	8.34E-08	4.28E-09	0.00E+00	8.77E-08	2.50E-08	7.69E-10	0.00E+00	2.57E-08	9.46E-09	2.48E-10	0.00E+00	9.71E-09
307	457920.3	3768247	8.53E-08	4.37E-09	0.00E+00	8.97E-08	8.53E-08	4.37E-09	0.00E+00	8.97E-08	2.55E-08	7.86E-10	0.00E+00	2.63E-08	9.68E-09	2.54E-10	0.00E+00	9.93E-09
308	457916.7	3768256	8.685E-08	4.45E-09	0.00E+00	9.13E-08	8.69E-08	4.45E-09	0.00E+00	9.13E-08	2.60E-08	8.01E-10	0.00E+00	2.68E-08	9.85E-09	2.58E-10	0.00E+00	1.01E-08
309	457913.1	3768265	8.803E-08	4.51E-09	0.00E+00	9.25E-08	8.80E-08	4.51E-09	0.00E+00	9.25E-08	2.64E-08	8.11E-10	0.00E+00	2.72E-08	9.99E-09	2.62E-10	0.00E+00	1.02E-08
310	457909.5	3768274	8.886E-08	4.56E-09	0.00E+00	9.34E-08	8.89E-08	4.56E-09	0.00E+00	9.34E-08	2.66E-08	8.19E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
311	457905.9	3768283	8.932E-08	4.58E-09	0.00E+00	9.39E-08	8.93E-08	4.58E-09	0.00E+00	9.39E-08	2.68E-08	8.23E-10	0.00E+00	2.76E-08	1.01E-08	2.66E-10	0.00E+00	1.04E-08
312	457902.3	3768292	8.936E-08	4.58E-09	0.00E+00	9.39E-08	8.94E-08	4.58E-09	0.00E+00	9.39E-08	2.68E-08	8.24E-10	0.00E+00	2.76E-08	1.01E-08	2.66E-10	0.00E+00	1.04E-08
313	457898.7	3768301	8.898E-08	4.56E-09	0.00E+00	9.35E-08	8.90E-08	4.56E-09	0.00E+00	9.35E-08	2.66E-08	8.20E-10	0.00E+00	2.75E-08	1.01E-08	2.65E-10	0.00E+00	1.04E-08
314	457895.1	3768310	8.822E-08	4.52E-09	0.00E+00	9.27E-08	8.82E-08	4.52E-09	0.00E+00	9.27E-08	2.64E-08	8.13E-10	0.00E+00	2.72E-08	1.00E-08	2.63E-10	0.00E+00	1.03E-08
315	457891.5	3768319	8.712E-08	4.47E-09	0.00E+00	9.16E-08	8.71E-08	4.47E-09	0.00E+00	9.16E-08	2.61E-08	8.03E-10	0.00E+00	2.69E-08	9.88E-09	2.59E-10	0.00E+00	1.01E-08
316	457887.9	3768328	8.568E-08	4.39E-09	0.00E+00	9.01E-08	8.57E-08	4.39E-09	0.00E+00	9.01E-08	2.57E-08	7.90E-10	0.00E+00	2.65E-08	9.72E-09	2.55E-10	0.00E+00	9.98E-09
317	457884.3	3768337	8.394E-08	4.30E-09	0.00E+00	8.82E-08	8.39E-08	4.30E-09	0.00E+00	8.82E-08	2.51E-08	7.74E-10	0.00E+00	2.59E-08	9.52E-09	2.50E-10	0.00E+00	9.77E-09
318	457880.6	3768345	8.194E-08	4.20E-09	0.00E+00	8.61E-08	8.19E-08	4.20E-09	0.00E+00	8.61E-08	2.45E-08	7.55E-10	0.00E+00	2.53E-08	9.30E-09	2.44E-10	0.00E+00	9.54E-09
319	457877	3768354	7.973E-08	4.09E-09	0.00E+00	8.38E-08	7.97E-08	4.09E-09	0.00E+00	8.38E-08	2.39E-08	7.35E-10	0.00E+00	2.46E-08	9.05E-09	2.37E-10	0.00E+00	9.28E-09
320	457873.4	3768363	7.732E-08	3.96E-09	0.00E+00	8.13E-08	7.73E-08	3.96E-09	0.00E+00	8.13E-08	2.32E-08	7.13E-10	0.00E+00	2.39E-08	8.77E-09	2.30E-10	0.00E+00	9.00E-09
321	457869.8	3768372	7.475E-08	3.83E-09	0.00E+00	7.86E-08	7.48E-08	3.83E-09	0.00E+00	7.86E-08	2.24E-08	6.89E-10	0.00E+00	2.31E-08	8.48E-09	2.22E-10	0.00E+00	8.70E-09
322	457866.2	3768381	7.209E-08	3.70E-09	0.00E+00	7.58E-08	7.21E-08	3.70E-09	0.00E+00	7.58E-08	2.16E-08	6.65E-10	0.00E+00	2.23E-08	8.18E-09	2.15E-10	0.00E+00	8.39E-09
323	457853.7	3768394	6.865E-08	3.52E-09	0.00E+00	7.22E-08	6.87E-08	3.52E-09	0.00E+00	7.22E-08	2.06E-08	6.33E-10	0.00E+00	2.12E-08	7.79E-09	2.04E-10	0.00E+00	7.99E-09
324	457927.5	3768229	8.121E-08	4.16E-09	0.00E+00	8.54E-08	8.12E-08	4.16E-09	0.00E+00	8.54E-08	2.43E-08	7.49E-10	0.00E+00	2.51E-08	9.21E-09	2.42E-10	0.00E+00	9.46E-09
325	457927.4	3768220	7.787E-08	3.99E-09	0.00E+00	8.19E-08	7.79E-08	3.99E-09	0.00E+00	8.19E-08	2.33E-08	7.18E-10	0.00E+00	2.40E-08	8.83E-09	2.32E-10	0.00E+00	9.07E-09
326	457927.3	3768210	7.689E-08	3.94E-09	0.00E+00	8.08E-08	7.69E-08	3.94E-09	0.00E+00	8.08E-08	2.30E-08	7.09E-10	0.00E+00	2.37E-08	8.72E-09	2.29E-10	0.00E+00	8.95E-09
327	457927.2	3768200	7.563E-08	3.88E-09	0.00E+00	7.95E-08	7.56E-08	3.88E-09	0.00E+00	7.95E-08	2.27E-08	6.97E-10	0.00E+00	2.34E-08	8.58E-09	2.25E-10	0.00E+00	8.81E-09
328	457927.1	3768191	7.412E-08	3.80E-09	0.00E+00	7.79E-08	7.41E-08	3.80E-09	0.00E+00	7.79E-08	2.22E-08	6.83E-10	0.00E+00	2.29E-08	8.41E-09	2.21E-10	0.00E+00	8.63E-09
329	457927	3768181	7.236E-08	3.71E-09	0.00E+00	7.61E-08	7.24E-08	3.71E-09	0.00E+00	7.61E-08	2.17E-08	6.67E-10	0.00E+00	2.23E-08	8.21E-09	2.15E-10	0.00E+00	8.42E-09
330	457926.9	3768172	7.036E-08	3.61E-09	0.00E+00	7.40E-08	7.04E-08	3.61E-09	0.00E+00	7.40E-08	2.11E-08	6.49E-10	0.00E+00	2.17E-08	7.98E-09	2.09E-10	0.00E+00	8.19E-09
331	457926.8	3768162	6.818E-08	3.50E-09	0.00E+00	7.17E-08	6.82E-08	3.50E-09	0.00E+00	7.17E-08	2.04E-08	6.29E-10	0.00E+00	2.11E-08	7.74E-09	2.03E-10	0.00E+00	7.94E-09
332	457926.6	3768152	6.585E-08	3.38E-09	0.00E+00	6.92E-08	6.58E-08	3.38E-09	0.00E+00	6.92E-08	1.97E-08	6.07E-10	0.00E+00	2.03E-08	7.47E-09	1.96E-10	0.00E+00	7.67E-09
333	457926.5	3768143	6.336E-08	3.25E-09	0.00E+00	6.66E-08	6.34E-08	3.25E-09	0.00E+00	6.66E-08	1.90E-08	5.84E-10	0.00E+00	1.96E-08	7.19E-09	1.89E-10	0.00E+00	7.38E-09

334	457926.4	3768133	6.074E-08	3.11E-09	0.00E+00	6.39E-08	6.07E-08	3.11E-09	0.00E+00	6.39E-08	1.82E-08	5.60E-10	0.00E+00	1.88E-08	6.89E-09	1.81E-10	0.00E+00	7.07E-09
335	457926.3	3768123	5.801E-08	2.97E-09	0.00E+00	6.10E-08	5.80E-08	2.97E-09	0.00E+00	6.10E-08	1.74E-08	5.35E-10	0.00E+00	1.79E-08	6.58E-09	1.73E-10	0.00E+00	6.75E-09
336	457926.2	3768114	5.523E-08	2.83E-09	0.00E+00	5.81E-08	5.52E-08	2.83E-09	0.00E+00	5.81E-08	1.65E-08	5.09E-10	0.00E+00	1.71E-08	6.27E-09	1.64E-10	0.00E+00	6.43E-09
337	457926.1	3768104	5.243E-08	2.69E-09	0.00E+00	5.51E-08	5.24E-08	2.69E-09	0.00E+00	5.51E-08	1.57E-08	4.83E-10	0.00E+00	1.62E-08	5.95E-09	1.56E-10	0.00E+00	6.10E-09
338	457926	3768094	4.964E-08	2.55E-09	0.00E+00	5.22E-08	4.96E-08	2.55E-09	0.00E+00	5.22E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.63E-09	1.48E-10	0.00E+00	5.78E-09
339	457925.9	3768085	4.69E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.40E-10	0.00E+00	5.46E-09
340	457925.7	3768075	4.422E-08	2.27E-09	0.00E+00	4.65E-08	4.42E-08	2.27E-09	0.00E+00	4.65E-08	1.32E-08	4.08E-10	0.00E+00	1.37E-08	5.02E-09	1.32E-10	0.00E+00	5.15E-09
341	457925.6	3768066	4.163E-08	2.13E-09	0.00E+00	4.38E-08	4.16E-08	2.13E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.72E-09	1.24E-10	0.00E+00	4.85E-09
342	457925.5	3768056	3.915E-08	2.01E-09	0.00E+00	4.12E-08	3.91E-08	2.01E-09	0.00E+00	4.12E-08	1.17E-08	3.61E-10	0.00E+00	1.21E-08	4.44E-09	1.16E-10	0.00E+00	4.56E-09
343	457925.4	3768046	3.678E-08	1.89E-09	0.00E+00	3.87E-08	3.68E-08	1.89E-09	0.00E+00	3.87E-08	1.10E-08	3.39E-10	0.00E+00	1.14E-08	4.17E-09	1.09E-10	0.00E+00	4.28E-09
344	457925.3	3768037	3.457E-08	1.77E-09	0.00E+00	3.63E-08	3.46E-08	1.77E-09	0.00E+00	3.63E-08	1.04E-08	3.19E-10	0.00E+00	1.07E-08	3.92E-09	1.03E-10	0.00E+00	4.02E-09
345	457925.2	3768027	3.249E-08	1.67E-09	0.00E+00	3.42E-08	3.25E-08	1.67E-09	0.00E+00	3.42E-08	9.73E-09	3.00E-10	0.00E+00	1.00E-08	3.69E-09	9.67E-11	0.00E+00	3.78E-09
346	457948.9	3768238	7.398E-08	3.79E-09	0.00E+00	7.78E-08	7.40E-08	3.79E-09	0.00E+00	7.78E-08	2.22E-08	6.82E-10	0.00E+00	2.28E-08	8.39E-09	2.20E-10	0.00E+00	8.61E-09
347	457945.3	3768247	7.586E-08	3.89E-09	0.00E+00	7.98E-08	7.59E-08	3.89E-09	0.00E+00	7.98E-08	2.27E-08	6.99E-10	0.00E+00	2.34E-08	8.61E-09	2.26E-10	0.00E+00	8.83E-09
348	457941.7	3768256	7.75E-08	3.97E-09	0.00E+00	8.15E-08	7.75E-08	3.97E-09	0.00E+00	8.15E-08	2.32E-08	7.14E-10	0.00E+00	2.39E-08	8.79E-09	2.31E-10	0.00E+00	9.02E-09
349	457938.1	3768265	7.882E-08	4.04E-09	0.00E+00	8.29E-08	7.88E-08	4.04E-09	0.00E+00	8.29E-08	2.36E-08	7.27E-10	0.00E+00	2.43E-08	8.94E-09	2.35E-10	0.00E+00	9.18E-09
350	457934.5	3768274	7.985E-08	4.09E-09	0.00E+00	8.39E-08	7.99E-08	4.09E-09	0.00E+00	8.39E-08	2.39E-08	7.36E-10	0.00E+00	2.47E-08	9.06E-09	2.38E-10	0.00E+00	9.30E-09
351	457930.9	3768283	8.057E-08	4.13E-09	0.00E+00	8.47E-08	8.06E-08	4.13E-09	0.00E+00	8.47E-08	2.41E-08	7.43E-10	0.00E+00	2.49E-08	9.14E-09	2.40E-10	0.00E+00	9.38E-09
352	457927.3	3768292	8.097E-08	4.15E-09	0.00E+00	8.51E-08	8.10E-08	4.15E-09	0.00E+00	8.51E-08	2.43E-08	7.46E-10	0.00E+00	2.50E-08	9.19E-09	2.41E-10	0.00E+00	9.43E-09
353	457923.7	3768301	8.105E-08	4.16E-09	0.00E+00	8.52E-08	8.10E-08	4.16E-09	0.00E+00	8.52E-08	2.43E-08	7.47E-10	0.00E+00	2.50E-08	9.20E-09	2.41E-10	0.00E+00	9.44E-09
354	457920.1	3768309	8.081E-08	4.14E-09	0.00E+00	8.50E-08	8.08E-08	4.14E-09	0.00E+00	8.50E-08	2.42E-08	7.45E-10	0.00E+00	2.49E-08	9.17E-09	2.40E-10	0.00E+00	9.41E-09
355	457916.5	3768318	8.027E-08	4.12E-09	0.00E+00	8.44E-08	8.03E-08	4.12E-09	0.00E+00	8.44E-08	2.40E-08	7.40E-10	0.00E+00	2.48E-08	9.11E-09	2.39E-10	0.00E+00	9.35E-09
356	457912.9	3768327	7.942E-08	4.07E-09	0.00E+00	8.35E-08	7.94E-08	4.07E-09	0.00E+00	8.35E-08	2.38E-08	7.32E-10	0.00E+00	2.45E-08	9.01E-09	2.36E-10	0.00E+00	9.25E-09
357	457909.3	3768336	7.83E-08	4.01E-09	0.00E+00	8.23E-08	7.83E-08	4.01E-09	0.00E+00	8.23E-08	2.35E-08	7.22E-10	0.00E+00	2.42E-08	8.88E-09	2.33E-10	0.00E+00	9.12E-09
358	457905.6	3768345	7.693E-08	3.94E-09	0.00E+00	8.09E-08	7.69E-08	3.94E-09	0.00E+00	8.09E-08	2.30E-08	7.09E-10	0.00E+00	2.38E-08	8.73E-09	2.29E-10	0.00E+00	8.96E-09
359	457902	3768354	7.539E-08	3.86E-09	0.00E+00	7.93E-08	7.54E-08	3.86E-09	0.00E+00	7.93E-08	2.26E-08	6.95E-10	0.00E+00	2.33E-08	8.55E-09	2.24E-10	0.00E+00	8.78E-09
360	457898.4	3768363	7.363E-08	3.77E-09	0.00E+00	7.74E-08	7.36E-08	3.77E-09	0.00E+00	7.74E-08	2.21E-08	6.79E-10	0.00E+00	2.27E-08	8.35E-09	2.19E-10	0.00E+00	8.57E-09
361	457894.8	3768372	7.166E-08	3.67E-09	0.00E+00	7.53E-08	7.17E-08	3.67E-09	0.00E+00	7.53E-08	2.15E-08	6.61E-10	0.00E+00	2.21E-08	8.13E-09	2.13E-10	0.00E+00	8.34E-09
362	457891.2	3768381	6.952E-08	3.56E-09	0.00E+00	7.31E-08	6.95E-08	3.56E-09	0.00E+00	7.31E-08	2.08E-08	6.41E-10	0.00E+00	2.15E-08	7.89E-09	2.07E-10	0.00E+00	8.09E-09
363	457887.6	3768390	6.727E-08	3.45E-09	0.00E+00	7.07E-08	6.73E-08	3.45E-09	0.00E+00	7.07E-08	2.01E-08	6.20E-10	0.00E+00	2.08E-08	7.63E-09	2.00E-10	0.00E+00	7.83E-09
364	457764.9	3768456	4.573E-08	2.34E-09	0.00E+00	4.81E-08	4.57E-08	2.34E-09	0.00E+00	4.81E-08	1.37E-08	4.22E-10	0.00E+00	1.41E-08	5.19E-09	1.36E-10	0.00E+00	5.32E-09
365	457756	3768460	4.408E-08	2.26E-09	0.00E+00	4.63E-08	4.41E-08	2.26E-09	0.00E+00	4.63E-08	1.32E-08	4.06E-10	0.00E+00	1.36E-08	5.00E-09	1.31E-10	0.00E+00	5.13E-09
366	457747.1	3768463	4.242E-08	2.17E-09	0.00E+00	4.46E-08	4.24E-08	2.17E-09	0.00E+00	4.46E-08	1.27E-08	3.91E-10	0.00E+00	1.31E-08	4.81E-09	1.26E-10	0.00E+00	4.94E-09
367	457738.2	3768467	4.07E-08	2.09E-09	0.00E+00	4.28E-08	4.07E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.75E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.74E-09
368	457952.5	3768229	7.19E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
369	457952.4	3768219	6.895E-08	3.54E-09	0.00E+00	7.25E-08	6.90E-08	3.54E-09	0.00E+00	7.25E-08	2.07E-08	6.36E-10	0.00E+00	2.13E-08	7.82E-09	2.05E-10	0.00E+00	8.03E-09
370	457952.3	3768210	6.795E-08	3.48E-09	0.00E+00	7.14E-08	6.79E-08	3.48E-09	0.00E+00	7.14E-08	2.04E-08	6.26E-10	0.00E+00	2.10E-08	7.71E-09	2.02E-10	0.00E+00	7.91E-09
371	457952.2	3768200	6.673E-08	3.42E-09	0.00E+00	7.02E-08	6.67E-08	3.42E-09	0.00E+00	7.02E-08	2.00E-08	6.15E-10	0.00E+00	2.06E-08	7.57E-09	1.99E-10	0.00E+00	7.77E-09
372	457952.1	3768191	6.532E-08	3.35E-09	0.00E+00	6.87E-08	6.53E-08	3.35E-09	0.00E+00	6.87E-08	1.96E-08	6.02E-10	0.00E+00	2.02E-08	7.41E-09	1.94E-10	0.00E+00	7.61E-09
373	457952	3768181	6.372E-08	3.27E-09	0.00E+00	6.70E-08	6.37E-08	3.27E-09	0.00E+00	6.70E-08	1.91E-08	5.87E-10	0.00E+00	1.97E-08	7.23E-09	1.90E-10	0.00E+00	7.42E-09
374	457951.9	3768171	6.195E-08	3.18E-09	0.00E+00	6.51E-08	6.19E-08	3.18E-09	0.00E+00	6.51E-08	1.86E-08	5.71E-10	0.00E+00	1.91E-08	7.03E-09	1.84E-10	0.00E+00	7.21E-09
375	457951.8	3768162	6.003E-08	3.08E-09	0.00E+00	6.31E-08	6.00E-08	3.08E-09	0.00E+00	6.31E-08	1.80E-08	5.53E-10	0.00E+00	1.85E-08	6.81E-09	1.79E-10	0.00E+00	6.99E-09
376	457951.6	3768152	5.798E-08	2.97E-09	0.00E+00	6.10E-08	5.80E-08	2.97E-09	0.00E+00	6.10E-08	1.74E-08	5.35E-10	0.00E+00	1.79E-08	6.58E-09	1.73E-10	0.00E+00	6.75E-09
377	457951.5	3768142	5.583E-08	2.86E-09	0.00E+00	5.87E-08	5.58E-08	2.86E-09	0.00E+00	5.87E-08	1.67E-08	5.15E-10	0.00E+00	1.72E-08	6.33E-09	1.66E-10	0.00E+00	6.50E-09
378	457951.4	3768133	5.36E-08	2.75E-09	0.00E+00	5.64E-08	5.36E-08	2.75E-09	0.00E+00	5.64E-08	1.61E-08	4.94E-10	0.00E+00	1.65E-08	6.08E-09	1.60E-10	0.00E+00	6.24E-09
379	457951.3	3768123	5.133E-08	2.63E-09	0.00E+00	5.40E-08	5.13E-08	2.63E-09	0.00E+00	5.40E-08	1.54E-08	4.73E-10	0.00E+00	1.58E-08	5.82E-09	1.53E-10	0.00E+00	5.98E-09
380	457951.2	3768113	4.901E-08	2.51E-09	0.00E+00	5.15E-08	4.90E-08	2.51E-09	0.00E+00	5.15E-08	1.47E-08	4.52E-10	0.00E+00	1.51E-08	5.56E-09	1.46E-10	0.00E+00	5.71E-09
381	457951.1	3768104	4.668E-08	2.39E-09	0.00E+00	4.91E-08	4.67E-08	2.39E-09	0.00E+00	4.91E-08	1.40E-08	4.30E-10	0.00E+00	1.44E-08	5.30E-09	1.39E-10	0.00E+00	5.44E-09
382	457951	3768094	4.434E-08	2.27E-09	0.00E+00	4.66E-08	4.43E-08	2.27E-09	0.00E+00	4.66E-08	1.33E-08	4.09E-10	0.00E+00	1.37E-08	5.03E-09	1.32E-10	0.00E+00	5.16E-09
383	457950.9	3768085	4.203E-08	2.15E-09	0.00E+00	4.42E-08	4.20E-08	2.15E-09	0.00E+00	4.42E-08	1.26E-08	3.87E-10	0.00E+00	1.30E-08	4.77E-09	1.25E-10	0.00E+00	4.89E-09
384	457950.7	3768075	3.978E-08	2.04E-09	0.00E+00	4.18E-08	3.98E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
385	457950.6	3768065	3.759E-08	1.93E-09	0.00E+00	3.95E-08	3.76E-08	1.93E-09	0.00E+00	3.95E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.38E-09
386	457950.5	3768056	3.549E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.10E-08	4.03E-09	1.06E-10	0.00E+00	4.13E-09
387	457950.4	3768046	3.347E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.96E-11	0.00E+00	3.90E-09
388	457950.3	3768036	3.158E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.46E-09	2.91E-10	0.00E+00	9.75E-09	3.58E-09	9.40E-11	0.00E+00	3.68E-09
389	457950.2	3768027	2.98E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.92E-09	2.75E-10	0.00E+00	9.20E-09	3.38E-09	8.87E-11	0.00E+00	3.47E-09
390	457973.9	3768238	6.604E-08	3.39E-09	0.00E+00	6.94E-08	6.60E-08	3.39E-09	0.00E+00	6.94E-08	1.98E-08	6.09E-10	0.00E+00	2.04E-08	7.49E-09	1.97E-10	0.00E+00	7.69E-09
391	457970.3	3768247	6.78E-08	3.48E-09	0.00E+00	7.13E-08	6.78E-08	3.48E-09	0.00E+00	7.13E-08	2.03E-08	6.25E-10	0.00E+00	2.09E-08	7.69E-09	2.02E-10	0.00E+00	7.89E-09
392	457966.7	3768256	6.939E-08	3.56E-09	0.00E+00	7.29E-08	6.94E-08	3.56E-09	0.00E+00	7.29E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.87E-09	2.06E-10	0.00E+00	8.08E-09
393	457963.1	3768265	7.076E-08	3.63E-09	0.00E+00	7.44E-08	7.08E-08	3.63E-09	0.00E+00	7.44E-08	2.12E-08	6.52E-10	0.00E+00	2.18E-08	8.03E-09	2.11E-10	0.00E+00	8.24E-09
394	457959.5	3768273	7.189E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
395	457955.9	3768282	7.279E-08	3.73E-09	0.00E+00	7.65E-08	7.28E-08	3.73E-09	0.00E+00	7.65E-08	2.18E-08	6.71E-10	0.00E+00	2.25E-08	8.26E-09	2.17E-10	0.00E+00	8.47E-09
396	457952.3	3768291	7.343E-08	3.76E-09	0.00E+00	7.72E-08	7.34E-08	3.76E-09	0.00E+00	7.72E-08	2.20E-08	6.77E-10	0.00E+00	2.27E-08	8.33E-09	2.19E-10	0.00E+00	8.55E-09
397	457948.7	3768300	7.382E-08	3.78E-09	0.00E+00	7.76E-08	7.38E-08	3.78E-09	0.00E+00	7.76E-08	2.21E-08	6.80E-10	0.00E+00	2.28E-08	8.37E-09	2.20E-10	0.00E+00	8.59E-09
398	457945.1	3768309	7.394E-08	3.79E-09	0.00E+00	7.77E-08	7.39E-08	3.79E-09	0.00E+00	7.77E-08	2.21E-08	6.82E-10	0.00E+00	2.28E-08	8.39E-09	2.20E-10	0.00E+00	8.61E-09
399	457941.5	3768318	7.381E-08	3.78E-09	0.00E+00	7.76E-08	7.38E-08	3.78E-09	0.00E+00	7.76E-08	2.21E-08	6.80E-10	0.00E+00	2.28E-08	8.37E-09	2.20E-10	0.00E+00	8.59E-09
400	457937.9	3768327	7.343E-08	3.76E-09	0.00E+00	7.72E-08	7.34E-08	3.76E-09	0.00E+00	7.72E-08	2.20E-08	6.77E-10	0.00E+00	2.27E-08	8.33E-09	2.19E-10	0.00E+00	8.55E-09
401	457934.3	3768336	7.279E-08	3.73E-09	0.00E+00	7.65E-08	7.28E-08	3.73E-09	0.00E+00	7.65E-08	2.18E-08	6.71E-10	0.00E+00	2.25E-08	8.26E-09	2.17E-10	0.00E+00	8.47E-09
402	457930.6	3768345	7.189E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
403	457927	3768354	7.086E-08	3.63E-09	0.00E+00	7.45E-08	7.09E-08	3.63E-09	0.00E+00	7.45E-08	2.12E-08	6.53E-10	0.00E+00	2.19E-08	8.04E-09	2.11E-10	0.00E+00	8.25E-09
404	457923.4	3768363	6.962E-08	3.57E-09	0.00E+00	7.32E-08	6.96E-08	3.57E-09	0.00E+00	7.32E-08	2.09E-08	6.42E-10	0.00E+00	2.15E-08	7.90E-09	2.07E-10	0.00E+00	8.11E-09
405	457919.8	3768372	6.819E-08	3.50E-09	0.00E+00	7.17E-08	6.82E-08	3.50E-09	0.00E+00	7.17E-08	2.04E-08	6.29E-10	0.00E+00	2.11E-08	7.74E-09	2.03E-10	0.00E+00	7.94E-09
406	457916.2	3768381	6.656E-08	3.41E-09	0.00E+00	7.00E-08	6.66E-08	3.41E-09	0.00E+00	7.00E-08	1.99E-08	6.14E-10	0.00E+00	2.05E-08	7.55E-09	1.98E-10	0.00E+00	7.75E-09
407	457912.6	3768390	6.477E-08	3.32E-09	0.00E+00	6.81E-08	6.48E-08	3.32E-09	0.00E+00	6.81E-08	1.94E-08	5.97E-10	0.00E+00	2.00E-08	7.35E-09	1.93E-10	0.00E+00	7.54E-09
408	457827.1	3768455	4.893E-08	2.51E-09	0.00E+00	5.14E-08	4.89E-08	2.51E-09	0.00E+00	5.14E-08	1.47E-08	4.51E-10	0.00E+00	1.51E-08	5.55E-09	1.46E-10	0.00E+00	5.70E-09
409	457818.2	3768459	4.757E-08	2.44E-09	0.00E+00	5.00E-08	4.76E-08	2.44E-09	0.00E+00	5.00E-08	1.42E-08	4.39E-10	0.00E+00	1.47E-08	5.40E-09	1.42E-10	0.00E+00	5.54E-09
410	457809.3	3768462	4.616E-08	2.37E-09	0.00E+00	4.85E-08	4.62E-08	2.37E-09	0.00E+00	4.85E-08	1.38E-08	4.26E-10	0.00E+00	1.43E-08	5.24E-09	1.37E-10	0.00E+00	5.37E-09
411	457800.4	3768466	4.471E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.07E-09	1.33E-10	0.00E+00	5.21E-09
412	457791.5	3768470	4.323E-08	2.22E-09	0.00E+00	4.54E-08	4.32E-08	2.22E-09	0.00E+00	4.54E-08	1.29E-08	3.98E-10	0.00E+00	1.33E-08	4.90E-09	1.29E-10	0.00E+00	5.03E-09
413	457782.7	3768474	4.172E-08	2.14E-09	0.00E+00	4.39E-08	4.17E-08	2.14E-09	0.00E+00	4.39E-08	1.25E-08	3.85E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.86E-09
414	457773.8	3768477	4.024E-08	2.06E-09	0.00E+00	4.23E-08	4.02E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
415	457764.9	3768481	3.876E-08	1.99E-09	0.00E+00	4.07E-08	3.88E-08	1.99E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.20E-08	4.40E-09	1.15E-10	0.00E+00	4.51E-09
416	457756	3768485	3.726E-08	1.91E-09	0.00E+00	3.92E-08	3.73E-08	1.91E-09	0.00E+00	3.92E-08	1.12E-08	3.43E-10	0.00E+00	1.15E-08	4.23E-09	1.11E-10	0.00E+00	4.34E-09
417	457747.1	3768488	3.575E-08	1.83E-09	0.00E+00	3.76E-08	3.58E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.30E-10	0.00E+00	1.10E-08	4.06E-09	1.06E-10	0.00E+00	4.16E-09
418	457738.2	3768492	3.431E-08	1.76E-09	0.00E+00	3.61E-08	3.43E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.89E-09	1.02E-10	0.00E+00	4.00E-09
419	457977.5	3768229	6.413E-08	3.29E-09	0.00E+00	6.74E-08	6.41E-08	3.29E-09	0.00E+00	6.74E-08	1.92E-08	5.91E-10	0.00E+00	1.98E-08	7.28E-09	1.91E-10	0.00E+00	7.47E-09
420	457977.4	3768219	6.304E-08	3.23E-09	0.00E+00	6.63E-08	6.30E-08	3.23E-09	0.00E+00	6.63E-08	1.89E-08	5.81E-10	0.00E+00	1.95E-08	7.15E-09	1.88E-10	0.00E+00	7.34E-09
421	457977.3	3768210	6.178E-08	3.17E-09	0.00E+00	6.49E-08	6.18E-08	3.17E-09	0.00E+00	6.49E-08	1.85E-08	5.69E-10	0.00E+00	1.91E-08	7.01E-09	1.84E-10	0.00E+00	7.19E-09
422	457977.2	3768200	6.036E-08	3.09E-09	0.00E+00	6.35E-08	6.04E-08	3.09E-09	0.00E+00	6.35E-08	1.81E-08	5.56E-10	0.00E+00	1.86E-08	6.85E-09	1.80E-10	0.00E+00	7.03E-09
423	457977.1	3768190	5.805E-08	2.98E-09	0.00E+00	6.10E-08	5.80E-08	2.98E-09	0.00E+00	6.10E-08	1.74E-08	5.35E-10	0.00E+00	1.79E-08	6.59E-09	1.73E-10	0.00E+00	6.76E-09
424	457977	3768181	5.66E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
425	457976.9	3768171	5.503E-08	2.82E-09	0.00E+00	5.79E-08	5.50E-08	2.82E-09	0.00E+00	5.79E-08	1.65E-08	5.07E-10	0.00E+00	1.70E-08	6.24E-09	1.64E-10	0.00E+00	6.41E-09
426	457976.7	3768161	5.334E-08	2.73E-09	0.00E+00	5.61E-08	5.33E-08	2.73E-09	0.00E+00	5.61E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.05E-09	1.59E-10	0.00E+00	6.21E-09
427	457976.6	3768152	5.156E-08	2.64E-09	0.00E+00	5.42E-08	5.16E-08	2.64E-09	0.00E+00	5.42E-08	1.54E-08	4.75E-10	0.00E+00	1.59E-08	5.85E-09	1.53E-10	0.00E+00	6.00E-09
428	457976.5	3768142	4.969E-08	2.55E-09	0.00E+00	5.22E-08	4.97E-08	2.55E-09	0.00E+00	5.22E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
429	457976.4	3768132	4.778E-08	2.45E-09	0.00E+00	5.02E-08	4.78E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.48E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
430	457976.3	3768123	4.582E-08	2.35E-09	0.00E+00	4.82E-08	4.58E-08	2.35E-09	0.00E+00	4.82E-08	1.37E-08	4.22E-10	0.00E+00	1.41E-08	5.20E-09	1.36E-10	0.00E+00	5.34E-09
431	457976.2	3768113	4.385E-08	2.25E-09	0.00E+00	4.61E-08	4.39E-08	2.25E-09	0.00E+00	4.61E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.97E-09	1.30E-10	0.00E+00	5.11E-09
432	457976.1	3768104	4.187E-08	2.15E-09	0.00E+00	4.40E-08	4.19E-08	2.15E-09	0.00E+00	4.40E-08	1.25E-08	3.86E-10	0.00E+00	1.29E-08	4.75E-09	1.25E-10	0.00E+00	4.87E-09
433	457976	3768094	3.99E-08	2.05E-09	0.00E+00	4.19E-08	3.99E-08	2.05E-09	0.00E+00	4.19E-08	1.19E-08	3.68E-10	0.00E+00	1.23E-08	4.53E-09	1.19E-10	0.00E+00	4.65E-09
434	457975.9	3768084	3.795E-08	1.95E-09	0.00E+00	3.99E-08	3.80E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
435	457975.7	3768075	3.604E-08	1.85E-09	0.00E+00	3.79E-08	3.60E-08	1.85E-09	0.00E+00	3.79E-08	1.08E-08	3.32E-10	0.00E+00	1.11E-08	4.09E-09	1.07E-10	0.00E+00	4.20E-09
436	457975.6	3768065	3.418E-08	1.75E-09	0.00E+00	3.59E-08	3.42E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.06E-08	3.88E-09	1.02E-10	0.00E+00	3.98E-09
437	457975.5	3768055	3.237E-08	1.66E-09	0.00E+00	3.40E-08	3.24E-08	1.66E-09	0.00E+00	3.40E-08	9.70E-09	2.98E-10	0.00E+00	9.99E-09	3.67E-09	9.63E-11	0.00E+00	3.77E-09
438	457975.4	3768046	3.064E-08	1.57E-09	0.00E+00	3.22E-08	3.06E-08	1.57E-09	0.00E+00	3.22E-08	9.18E-09	2.82E-10	0.00E+00	9.46E-09	3.48E-09	9.12E-11	0.00E+00	3.57E-09
439	457975.3	3768036	2.9E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.69E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.63E-11	0.00E+00	3.38E-09
440	457975.2	3768026	2.744E-08	1.41E-09	0.00E+00	2.88E-08	2.74E-08	1.41E-09	0.00E+00	2.88E-08	8.22E-09	2.53E-10	0.00E+00	8.47E-09	3.11E-09	8.17E-11	0.00E+00	3.19E-09
441	457998.9	3768237	5.926E-08	3.04E-09	0.00E+00	6.23E-08	5.93E-08	3.04E-09	0.00E+00	6.23E-08	1.77E-08	5.46E-10	0.00E+00	1.83E-08	6.72E-09	1.76E-10	0.00E+00	6.90E-09
442	457995.3	3768246	6.09E-08	3.12E-09	0.00E+00	6.40E-08	6.09E-08	3.12E-09	0.00E+00	6.40E-08	1.82E-08	5.61E-10	0.00E+00	1.88E-08	6.91E-09	1.81E-10	0.00E+00	7.09E-09
443	457991.7	3768255	6.241E-08	3.20E-09	0.00E+00	6.56E-08	6.24E-08	3.20E-09	0.00E+00	6.56E-08	1.87E-08	5.75E-10	0.00E+00	1.93E-08	7.08E-09	1.86E-10	0.00E+00	7.27E-09
444	457988.1	3768264	6.376E-08	3.27E-09	0.00E+00	6.70E-08	6.38E-08	3.27E-09	0.00E+00	6.70E-08	1.91E-08	5.88E-10	0.00E+00	1.97E-08	7.23E-09	1.90E-10	0.00E+00	7.42E-09
445	457984.5	3768273	6.493E-08	3.33E-09	0.00E+00	6.83E-08	6.49E-08	3.33E-09	0.00E+00	6.83E-08	1.94E-08	5.99E-10	0.00E+00	2.00E-08	7.37E-09	1.93E-10	0.00E+00	7.56E-09

446	457980.9	3768282	6.592E-08	3.38E-09	0.00E+00	6.93E-08	6.59E-08	3.38E-09	0.00E+00	6.93E-08	1.97E-08	6.08E-10	0.00E+00	2.04E-08	7.48E-09	1.96E-10	0.00E+00	7.67E-09
447	457977.3	3768291	6.673E-08	3.42E-09	0.00E+00	7.01E-08	6.67E-08	3.42E-09	0.00E+00	7.01E-08	2.00E-08	6.15E-10	0.00E+00	2.06E-08	7.57E-09	1.99E-10	0.00E+00	7.77E-09
448	457973.7	3768300	6.734E-08	3.45E-09	0.00E+00	7.08E-08	6.73E-08	3.45E-09	0.00E+00	7.08E-08	2.02E-08	6.21E-10	0.00E+00	2.08E-08	7.64E-09	2.00E-10	0.00E+00	7.84E-09
449	457970.1	3768309	6.772E-08	3.47E-09	0.00E+00	7.12E-08	6.77E-08	3.47E-09	0.00E+00	7.12E-08	2.03E-08	6.24E-10	0.00E+00	2.09E-08	7.68E-09	2.02E-10	0.00E+00	7.88E-09
450	457966.5	3768318	6.787E-08	3.48E-09	0.00E+00	7.14E-08	6.79E-08	3.48E-09	0.00E+00	7.14E-08	2.03E-08	6.26E-10	0.00E+00	2.10E-08	7.70E-09	2.02E-10	0.00E+00	7.90E-09
451	457962.9	3768327	6.784E-08	3.48E-09	0.00E+00	7.13E-08	6.78E-08	3.48E-09	0.00E+00	7.13E-08	2.03E-08	6.25E-10	0.00E+00	2.09E-08	7.70E-09	2.02E-10	0.00E+00	7.90E-09
452	457959.3	3768336	6.761E-08	3.47E-09	0.00E+00	7.11E-08	6.76E-08	3.47E-09	0.00E+00	7.11E-08	2.02E-08	6.23E-10	0.00E+00	2.09E-08	7.67E-09	2.01E-10	0.00E+00	7.87E-09
453	457955.6	3768345	6.715E-08	3.44E-09	0.00E+00	7.06E-08	6.72E-08	3.44E-09	0.00E+00	7.06E-08	2.01E-08	6.19E-10	0.00E+00	2.07E-08	7.62E-09	2.00E-10	0.00E+00	7.82E-09
454	457952	3768354	6.646E-08	3.41E-09	0.00E+00	6.99E-08	6.65E-08	3.41E-09	0.00E+00	6.99E-08	1.99E-08	6.13E-10	0.00E+00	2.05E-08	7.54E-09	1.98E-10	0.00E+00	7.74E-09
455	457948.4	3768362	6.557E-08	3.36E-09	0.00E+00	6.89E-08	6.56E-08	3.36E-09	0.00E+00	6.89E-08	1.96E-08	6.04E-10	0.00E+00	2.02E-08	7.44E-09	1.95E-10	0.00E+00	7.63E-09
456	457944.8	3768371	6.453E-08	3.31E-09	0.00E+00	6.78E-08	6.45E-08	3.31E-09	0.00E+00	6.78E-08	1.93E-08	5.95E-10	0.00E+00	1.99E-08	7.32E-09	1.92E-10	0.00E+00	7.51E-09
457	457941.2	3768380	6.332E-08	3.25E-09	0.00E+00	6.66E-08	6.33E-08	3.25E-09	0.00E+00	6.66E-08	1.90E-08	5.84E-10	0.00E+00	1.95E-08	7.18E-09	1.88E-10	0.00E+00	7.37E-09
458	457937.6	3768389	6.195E-08	3.18E-09	0.00E+00	6.51E-08	6.20E-08	3.18E-09	0.00E+00	6.51E-08	1.86E-08	5.71E-10	0.00E+00	1.91E-08	7.03E-09	1.84E-10	0.00E+00	7.21E-09
459	457889.3	3768454	4.973E-08	2.55E-09	0.00E+00	5.23E-08	4.97E-08	2.55E-09	0.00E+00	5.23E-08	1.49E-08	4.58E-10	0.00E+00	1.54E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
460	457880.4	3768458	4.89E-08	2.51E-09	0.00E+00	5.14E-08	4.89E-08	2.51E-09	0.00E+00	5.14E-08	1.46E-08	4.51E-10	0.00E+00	1.51E-08	5.55E-09	1.46E-10	0.00E+00	5.69E-09
461	457871.5	3768461	4.799E-08	2.46E-09	0.00E+00	5.05E-08	4.80E-08	2.46E-09	0.00E+00	5.05E-08	1.44E-08	4.42E-10	0.00E+00	1.48E-08	5.44E-09	1.43E-10	0.00E+00	5.59E-09
462	457862.6	3768465	4.7E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.33E-09	1.40E-10	0.00E+00	5.47E-09
463	457853.8	3768469	4.591E-08	2.35E-09	0.00E+00	4.83E-08	4.59E-08	2.35E-09	0.00E+00	4.83E-08	1.38E-08	4.23E-10	0.00E+00	1.42E-08	5.21E-09	1.37E-10	0.00E+00	5.35E-09
464	457844.9	3768473	4.477E-08	2.30E-09	0.00E+00	4.71E-08	4.48E-08	2.30E-09	0.00E+00	4.71E-08	1.34E-08	4.13E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
465	457836	3768476	4.359E-08	2.23E-09	0.00E+00	4.58E-08	4.36E-08	2.23E-09	0.00E+00	4.58E-08	1.31E-08	4.02E-10	0.00E+00	1.35E-08	4.95E-09	1.30E-10	0.00E+00	5.07E-09
466	457827.1	3768480	4.235E-08	2.17E-09	0.00E+00	4.45E-08	4.23E-08	2.17E-09	0.00E+00	4.45E-08	1.27E-08	3.90E-10	0.00E+00	1.31E-08	4.80E-09	1.26E-10	0.00E+00	4.93E-09
467	457818.2	3768484	4.107E-08	2.11E-09	0.00E+00	4.32E-08	4.11E-08	2.11E-09	0.00E+00	4.32E-08	1.23E-08	3.79E-10	0.00E+00	1.27E-08	4.66E-09	1.22E-10	0.00E+00	4.78E-09
468	457809.3	3768487	3.976E-08	2.04E-09	0.00E+00	4.18E-08	3.98E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.66E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
469	457800.4	3768491	3.842E-08	1.97E-09	0.00E+00	4.04E-08	3.84E-08	1.97E-09	0.00E+00	4.04E-08	1.15E-08	3.54E-10	0.00E+00	1.19E-08	4.36E-09	1.14E-10	0.00E+00	4.47E-09
470	457791.6	3768495	3.708E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
471	457782.7	3768499	3.573E-08	1.83E-09	0.00E+00	3.76E-08	3.57E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.05E-09	1.06E-10	0.00E+00	4.16E-09
472	457773.8	3768502	3.437E-08	1.76E-09	0.00E+00	3.61E-08	3.44E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.00E-09
473	457764.9	3768506	3.303E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.89E-09	3.04E-10	0.00E+00	1.02E-08	3.75E-09	9.83E-11	0.00E+00	3.85E-09
474	457756	3768510	3.169E-08	1.62E-09	0.00E+00	3.33E-08	3.17E-08	1.62E-09	0.00E+00	3.33E-08	9.49E-09	2.92E-10	0.00E+00	9.78E-09	3.60E-09	9.43E-11	0.00E+00	3.69E-09
475	457747.1	3768513	3.039E-08	1.56E-09	0.00E+00	3.19E-08	3.04E-08	1.56E-09	0.00E+00	3.19E-08	9.10E-09	2.80E-10	0.00E+00	9.38E-09	3.45E-09	9.04E-11	0.00E+00	3.54E-09
476	457738.2	3768517	2.912E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.72E-09	2.68E-10	0.00E+00	8.99E-09	3.30E-09	8.67E-11	0.00E+00	3.39E-09
477	458002.5	3768229	5.749E-08	2.95E-09	0.00E+00	6.04E-08	5.75E-08	2.95E-09	0.00E+00	6.04E-08	1.72E-08	5.30E-10	0.00E+00	1.77E-08	6.52E-09	1.71E-10	0.00E+00	6.69E-09
478	458002.4	3768219	5.643E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.57E-09
479	458002.3	3768209	5.524E-08	2.83E-09	0.00E+00	5.81E-08	5.52E-08	2.83E-09	0.00E+00	5.81E-08	1.65E-08	5.09E-10	0.00E+00	1.71E-08	6.27E-09	1.64E-10	0.00E+00	6.43E-09
480	458002.2	3768200	5.394E-08	2.77E-09	0.00E+00	5.67E-08	5.39E-08	2.77E-09	0.00E+00	5.67E-08	1.62E-08	4.97E-10	0.00E+00	1.67E-08	6.12E-09	1.61E-10	0.00E+00	6.28E-09
481	458002.1	3768190	5.197E-08	2.66E-09	0.00E+00	5.46E-08	5.20E-08	2.66E-09	0.00E+00	5.46E-08	1.56E-08	4.79E-10	0.00E+00	1.60E-08	5.90E-09	1.55E-10	0.00E+00	6.05E-09
482	458002	3768180	5.066E-08	2.60E-09	0.00E+00	5.33E-08	5.07E-08	2.60E-09	0.00E+00	5.33E-08	1.52E-08	4.67E-10	0.00E+00	1.56E-08	5.75E-09	1.51E-10	0.00E+00	5.90E-09
483	458001.9	3768171	4.926E-08	2.53E-09	0.00E+00	5.18E-08	4.93E-08	2.53E-09	0.00E+00	5.18E-08	1.48E-08	4.54E-10	0.00E+00	1.52E-08	5.59E-09	1.47E-10	0.00E+00	5.74E-09
484	458001.7	3768161	4.778E-08	2.45E-09	0.00E+00	5.02E-08	4.78E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.48E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
485	458001.6	3768151	4.622E-08	2.37E-09	0.00E+00	4.86E-08	4.62E-08	2.37E-09	0.00E+00	4.86E-08	1.38E-08	4.26E-10	0.00E+00	1.43E-08	5.24E-09	1.38E-10	0.00E+00	5.38E-09
486	458001.5	3768142	4.46E-08	2.29E-09	0.00E+00	4.69E-08	4.46E-08	2.29E-09	0.00E+00	4.69E-08	1.34E-08	4.11E-10	0.00E+00	1.38E-08	5.06E-09	1.33E-10	0.00E+00	5.19E-09
487	458001.4	3768132	4.294E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.29E-08	3.96E-10	0.00E+00	1.33E-08	4.87E-09	1.28E-10	0.00E+00	5.00E-09
488	458001.3	3768122	4.125E-08	2.11E-09	0.00E+00	4.34E-08	4.12E-08	2.11E-09	0.00E+00	4.34E-08	1.24E-08	3.80E-10	0.00E+00	1.27E-08	4.68E-09	1.23E-10	0.00E+00	4.80E-09
489	458001.2	3768113	3.954E-08	2.03E-09	0.00E+00	4.16E-08	3.95E-08	2.03E-09	0.00E+00	4.16E-08	1.18E-08	3.64E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.60E-09
490	458001.1	3768103	3.783E-08	1.94E-09	0.00E+00	3.98E-08	3.78E-08	1.94E-09	0.00E+00	3.98E-08	1.13E-08	3.49E-10	0.00E+00	1.17E-08	4.29E-09	1.13E-10	0.00E+00	4.40E-09
491	458001	3768094	3.615E-08	1.85E-09	0.00E+00	3.80E-08	3.62E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.08E-10	0.00E+00	4.21E-09
492	458000.8	3768084	3.449E-08	1.77E-09	0.00E+00	3.63E-08	3.45E-08	1.77E-09	0.00E+00	3.63E-08	1.03E-08	3.18E-10	0.00E+00	1.06E-08	3.91E-09	1.03E-10	0.00E+00	4.02E-09
493	458000.7	3768074	3.286E-08	1.68E-09	0.00E+00	3.45E-08	3.29E-08	1.68E-09	0.00E+00	3.45E-08	9.84E-09	3.03E-10	0.00E+00	1.01E-08	3.73E-09	9.78E-11	0.00E+00	3.83E-09
494	458000.6	3768065	3.125E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.36E-09	2.88E-10	0.00E+00	9.65E-09	3.55E-09	9.30E-11	0.00E+00	3.64E-09
495	458000.5	3768055	2.969E-08	1.52E-09	0.00E+00	3.12E-08	2.97E-08	1.52E-09	0.00E+00	3.12E-08	8.89E-09	2.74E-10	0.00E+00	9.17E-09	3.37E-09	8.83E-11	0.00E+00	3.46E-09
496	458000.4	3768045	2.819E-08	1.45E-09	0.00E+00	2.96E-08	2.82E-08	1.45E-09	0.00E+00	2.96E-08	8.44E-09	2.60E-10	0.00E+00	8.70E-09	3.20E-09	8.39E-11	0.00E+00	3.28E-09
497	458000.3	3768036	2.675E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.01E-09	2.47E-10	0.00E+00	8.26E-09	3.03E-09	7.96E-11	0.00E+00	3.11E-09
498	458000.2	3768026	2.538E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.60E-09	2.34E-10	0.00E+00	7.83E-09	2.88E-09	7.55E-11	0.00E+00	2.95E-09
499	458023.9	3768237	5.342E-08	2.74E-09	0.00E+00	5.62E-08	5.34E-08	2.74E-09	0.00E+00	5.62E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.06E-09	1.59E-10	0.00E+00	6.22E-09
500	458020.3	3768246	5.495E-08	2.82E-09	0.00E+00	5.78E-08	5.49E-08	2.82E-09	0.00E+00	5.78E-08	1.65E-08	5.07E-10	0.00E+00	1.70E-08	6.23E-09	1.64E-10	0.00E+00	6.40E-09
501	458016.7	3768255	5.637E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.56E-09
502	458013.1	3768264	5.77E-08	2.96E-09	0.00E+00	6.07E-08	5.77E-08	2.96E-09	0.00E+00	6.07E-08	1.73E-08	5.32E-10	0.00E+00	1.78E-08	6.55E-09	1.72E-10	0.00E+00	6.72E-09
503	458009.5	3768273	5.889E-08	3.02E-09	0.00E+00	6.19E-08	5.89E-08	3.02E-09	0.00E+00	6.19E-08	1.76E-08	5.43E-10	0.00E+00	1.82E-08	6.68E-09	1.75E-10	0.00E+00	6.86E-09
504	458005.9	3768282	5.994E-08	3.07E-09	0.00E+00	6.30E-08	5.99E-08	3.07E-09	0.00E+00	6.30E-08	1.80E-08	5.52E-10	0.00E+00	1.85E-08	6.80E-09	1.78E-10	0.00E+00	6.98E-09
505	458002.3	3768291	6.082E-08	3.12E-09	0.00E+00	6.39E-08	6.08E-08	3.12E-09	0.00E+00	6.39E-08	1.82E-08	5.61E-10	0.00E+00	1.88E-08	6.90E-09	1.81E-10	0.00E+00	7.08E-09
506	457998.7	3768300	6.155E-08	3.16E-09	0.00E+00	6.47E-08	6.15E-08	3.16E-09	0.00E+00	6.47E-08	1.84E-08	5.67E-10	0.00E+00	1.90E-08	6.98E-09	1.83E-10	0.00E+00	7.17E-09
507	457995.1	3768309	6.211E-08	3.18E-09	0.00E+00	6.53E-08	6.21E-08	3.18E-09	0.00E+00	6.53E-08	1.86E-08	5.73E-10	0.00E+00	1.92E-08	7.05E-09	1.85E-10	0.00E+00	7.23E-09
508	457991.5	3768318	6.251E-08	3.20E-09	0.00E+00	6.57E-08	6.25E-08	3.20E-09	0.00E+00	6.57E-08	1.87E-08	5.76E-10	0.00E+00	1.93E-08	7.09E-09	1.86E-10	0.00E+00	7.28E-09
509	457987.9	3768326	6.267E-08	3.21E-09	0.00E+00	6.59E-08	6.27E-08	3.21E-09	0.00E+00	6.59E-08	1.88E-08	5.78E-10	0.00E+00	1.93E-08	7.11E-09	1.86E-10	0.00E+00	7.30E-09
510	457984.2	3768335	6.265E-08	3.21E-09	0.00E+00	6.59E-08	6.27E-08	3.21E-09	0.00E+00	6.59E-08	1.88E-08	5.78E-10	0.00E+00	1.93E-08	7.11E-09	1.86E-10	0.00E+00	7.29E-09
511	457980.6	3768344	6.246E-08	3.20E-09	0.00E+00	6.57E-08	6.25E-08	3.20E-09	0.00E+00	6.57E-08	1.87E-08	5.76E-10	0.00E+00	1.93E-08	7.09E-09	1.86E-10	0.00E+00	7.27E-09
512	457977	3768353	6.209E-08	3.18E-09	0.00E+00	6.53E-08	6.21E-08	3.18E-09	0.00E+00	6.53E-08	1.86E-08	5.72E-10	0.00E+00	1.92E-08	7.04E-09	1.85E-10	0.00E+00	7.23E-09
513	457973.4	3768362	6.154E-08	3.15E-09	0.00E+00	6.47E-08	6.15E-08	3.15E-09	0.00E+00	6.47E-08	1.84E-08	5.67E-10	0.00E+00	1.90E-08	6.98E-09	1.83E-10	0.00E+00	7.16E-09
514	457969.8	3768371	6.082E-08	3.12E-09	0.00E+00	6.39E-08	6.08E-08	3.12E-09	0.00E+00	6.39E-08	1.82E-08	5.61E-10	0.00E+00	1.88E-08	6.90E-09	1.81E-10	0.00E+00	7.08E-09
515	457966.2	3768380	5.996E-08	3.07E-09	0.00E+00	6.30E-08	6.00E-08	3.07E-09	0.00E+00	6.30E-08	1.80E-08	5.53E-10	0.00E+00	1.85E-08	6.80E-09	1.78E-10	0.00E+00	6.98E-09
516	457962.6	3768389	5.894E-08	3.02E-09	0.00E+00	6.20E-08	5.89E-08	3.02E-09	0.00E+00	6.20E-08	1.77E-08	5.43E-10	0.00E+00	1.82E-08	6.69E-09	1.75E-10	0.00E+00	6.86E-09
517	457924.9	3768464	4.684E-08	2.40E-09	0.00E+00	4.92E-08	4.68E-08	2.40E-09	0.00E+00	4.92E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.31E-09	1.39E-10	0.00E+00	5.45E-09
518	457916	3768468	4.622E-08	2.37E-09	0.00E+00	4.86E-08	4.62E-08	2.37E-09	0.00E+00	4.86E-08	1.38E-08	4.26E-10	0.00E+00	1.43E-08	5.24E-09	1.38E-10	0.00E+00	5.38E-09
519	457907.1	3768472	4.552E-08	2.33E-09	0.00E+00	4.79E-08	4.55E-08	2.33E-09	0.00E+00	4.79E-08	1.36E-08	4.20E-10	0.00E+00	1.41E-08	5.16E-09	1.35E-10	0.00E+00	5.30E-09
520	457898.2	3768475	4.475E-08	2.29E-09	0.00E+00	4.70E-08	4.48E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.13E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
521	457889.3	3768479	4.393E-08	2.25E-09	0.00E+00	4.62E-08	4.39E-08	2.25E-09	0.00E+00	4.62E-08	1.32E-08	4.05E-10	0.00E+00	1.36E-08	4.98E-09	1.31E-10	0.00E+00	5.11E-09
522	457880.4	3768483	4.303E-08	2.21E-09	0.00E+00	4.52E-08	4.30E-08	2.21E-09	0.00E+00	4.52E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.88E-09	1.28E-10	0.00E+00	5.01E-09
523	457871.5	3768486	4.206E-08	2.16E-09	0.00E+00	4.42E-08	4.21E-08	2.16E-09	0.00E+00	4.42E-08	1.26E-08	3.88E-10	0.00E+00	1.30E-08	4.77E-09	1.25E-10	0.00E+00	4.90E-09
524	457862.7	3768490	4.105E-08	2.10E-09	0.00E+00	4.32E-08	4.11E-08	2.10E-09	0.00E+00	4.32E-08	1.23E-08	3.78E-10	0.00E+00	1.27E-08	4.66E-09	1.22E-10	0.00E+00	4.78E-09
525	457853.8	3768494	4.002E-08	2.05E-09	0.00E+00	4.21E-08	4.00E-08	2.05E-09	0.00E+00	4.21E-08	1.20E-08	3.69E-10	0.00E+00	1.24E-08	4.54E-09	1.19E-10	0.00E+00	4.66E-09
526	457844.9	3768498	3.896E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.59E-10	0.00E+00	1.20E-08	4.42E-09	1.16E-10	0.00E+00	4.54E-09
527	457836	3768501	3.784E-08	1.94E-09	0.00E+00	3.98E-08	3.78E-08	1.94E-09	0.00E+00	3.98E-08	1.13E-08	3.49E-10	0.00E+00	1.17E-08	4.29E-09	1.13E-10	0.00E+00	4.41E-09
528	457827.1	3768505	3.667E-08	1.88E-09	0.00E+00	3.85E-08	3.67E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.16E-09	1.09E-10	0.00E+00	4.27E-09
529	457818.2	3768509	3.549E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.10E-08	4.03E-09	1.06E-10	0.00E+00	4.13E-09
530	457809.3	3768512	3.433E-08	1.76E-09	0.00E+00	3.61E-08	3.43E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.89E-09	1.02E-10	0.00E+00	4.00E-09
531	457800.5	3768516	3.312E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.92E-09	3.05E-10	0.00E+00	1.02E-08	3.76E-09	9.86E-11	0.00E+00	3.86E-09
532	457791.6	3768520	3.192E-08	1.64E-09	0.00E+00	3.36E-08	3.19E-08	1.64E-09	0.00E+00	3.36E-08	9.56E-09	2.94E-10	0.00E+00	9.85E-09	3.62E-09	9.50E-11	0.00E+00	3.72E-09
533	457782.7	3768524	3.071E-08	1.57E-09	0.00E+00	3.23E-08	3.07E-08	1.57E-09	0.00E+00	3.23E-08	9.20E-09	2.83E-10	0.00E+00	9.48E-09	3.48E-09	9.14E-11	0.00E+00	3.58E-09
534	457773.8	3768527	2.951E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.84E-09	2.72E-10	0.00E+00	9.11E-09	3.35E-09	8.78E-11	0.00E+00	3.44E-09
535	457764.9	3768531	2.831E-08	1.45E-09	0.00E+00	2.98E-08	2.83E-08	1.45E-09	0.00E+00	2.98E-08	8.48E-09	2.61E-10	0.00E+00	8.74E-09	3.21E-09	8.42E-11	0.00E+00	3.30E-09
536	457756	3768535	2.715E-08	1.39E-09	0.00E+00	2.85E-08	2.72E-08	1.39E-09	0.00E+00	2.85E-08	8.13E-09	2.50E-10	0.00E+00	8.38E-09	3.08E-09	8.08E-11	0.00E+00	3.16E-09
537	457747.1	3768538	2.603E-08	1.33E-09	0.00E+00	2.74E-08	2.60E-08	1.33E-09	0.00E+00	2.74E-08	7.80E-09	2.40E-10	0.00E+00	8.04E-09	2.95E-09	7.75E-11	0.00E+00	3.03E-09
538	457738.2	3768542	2.491E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.46E-09	2.30E-10	0.00E+00	7.69E-09	2.83E-09	7.41E-11	0.00E+00	2.90E-09
539	458027.5	3768228	5.181E-08	2.66E-09	0.00E+00	5.45E-08	5.18E-08	2.66E-09	0.00E+00	5.45E-08	1.55E-08	4.78E-10	0.00E+00	1.60E-08	5.88E-09	1.54E-10	0.00E+00	6.03E-09
540	458027.4	3768219	5.08E-08	2.60E-09	0.00E+00	5.34E-08	5.08E-08	2.60E-09	0.00E+00	5.34E-08	1.52E-08	4.68E-10	0.00E+00	1.57E-08	5.76E-09	1.51E-10	0.00E+00	5.92E-09
541	458027.3	3768209	4.97E-08	2.55E-09	0.00E+00	5.22E-08	4.97E-08	2.55E-09	0.00E+00	5.22E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
542	458027.2	3768199	4.85E-08	2.49E-09	0.00E+00	5.10E-08	4.85E-08	2.49E-09	0.00E+00	5.10E-08	1.45E-08	4.47E-10	0.00E+00	1.50E-08	5.50E-09	1.44E-10	0.00E+00	5.65E-09
543	458027.1	3768190	4.722E-08	2.42E-09	0.00E+00	4.96E-08	4.72E-08	2.42E-09	0.00E+00	4.96E-08	1.41E-08	4.35E-10	0.00E+00	1.46E-08	5.36E-09	1.41E-10	0.00E+00	5.50E-09
544	458027	3768180	4.585E-08	2.35E-09	0.00E+00	4.82E-08	4.58E-08	2.35E-09	0.00E+00	4.82E-08	1.37E-08	4.23E-10	0.00E+00	1.42E-08	5.20E-09	1.36E-10	0.00E+00	5.34E-09
545	458026.9	3768170	4.441E-08	2.28E-09	0.00E+00	4.67E-08	4.44E-08	2.28E-09	0.00E+00	4.67E-08	1.33E-08	4.09E-10	0.00E+00	1.37E-08	5.04E-09	1.32E-10	0.00E+00	5.17E-09
546	458026.7	3768161	4.309E-08	2.21E-09	0.00E+00	4.53E-08	4.31E-08	2.21E-09	0.00E+00	4.53E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.89E-09	1.28E-10	0.00E+00	5.02E-09
547	458026.6	3768151	4.172E-08	2.14E-09	0.00E+00	4.39E-08	4.17E-08	2.14E-09	0.00E+00	4.39E-08	1.25E-08	3.85E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.86E-09
548	458026.5	3768141	4.03E-08	2.07E-09	0.00E+00	4.24E-08	4.03E-08	2.07E-09	0.00E+00	4.24E-08	1.21E-08	3.72E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
549	458026.4	3768132	3.886E-08	1.99E-09	0.00E+00	4.08E-08	3.89E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.52E-09
550	458026.3	3768122	3.738E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
551	458026.2	3768113	3.59E-08	1.84E-09	0.00E+00	3.77E-08	3.59E-08	1.84E-09	0.00E+00	3.77E-08	1.08E-08	3.31E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.18E-09
552	458026.1	3768103	3.442E-08	1.76E-09	0.00E+00	3.62E-08	3.44E-08	1.76E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.91E-09	1.02E-10	0.00E+00	4.01E-09
553	458026	3768093	3.296E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.87E-09	3.04E-10	0.00E+00	1.02E-08	3.74E-09	9.81E-11	0.00E+00	3.84E-09
554	458025.8	3768084	3.152E-08	1.62E-09	0.00E+00	3.31E-08	3.15E-08	1.62E-09	0.00E+00	3.31E-08	9.44E-09	2.91E-10	0.00E+00	9.73E-09	3.58E-09	9.38E-11	0.00E+00	3.67E-09
555	458025.7	3768074	3.01E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.02E-09	2.77E-10	0.00E+00	9.29E-09	3.42E-09	8.96E-11	0.00E+00	3.50E-09
556	458025.6	3768064	2.871E-08	1.47E-09	0.00E+00	3.02E-08	2.87E-08	1.47E-09	0.00E+00	3.02E-08	8.60E-09	2.65E-10	0.00E+00	8.86E-09	3.26E-09	8.54E-11	0.00E+00	3.34E-09
557	458025.5	3768055	2.735E-08	1.40E-09	0.00E+00	2.88E-08	2.74E-08	1.40E-09	0.00E+00	2.88E-08	8.19E-09	2.52E-10	0.00E+00	8.44E-09	3.10E-09	8.14E-11	0.00E+00	3.18E-09

558	458025.4	3768045	2.604E-08	1.34E-09	0.00E+00	2.74E-08	2.60E-08	1.34E-09	0.00E+00	2.74E-08	7.80E-09	2.40E-10	0.00E+00	8.04E-09	2.95E-09	7.75E-11	0.00E+00	3.03E-09
559	458025.3	3768035	2.478E-08	1.27E-09	0.00E+00	2.60E-08	2.48E-08	1.27E-09	0.00E+00	2.60E-08	7.42E-09	2.28E-10	0.00E+00	7.65E-09	2.81E-09	7.37E-11	0.00E+00	2.89E-09
560	458025.2	3768026	2.357E-08	1.21E-09	0.00E+00	2.48E-08	2.36E-08	1.21E-09	0.00E+00	2.48E-08	7.06E-09	2.17E-10	0.00E+00	7.28E-09	2.67E-09	7.01E-11	0.00E+00	2.74E-09
561	458048.9	3768237	4.84E-08	2.48E-09	0.00E+00	5.09E-08	4.84E-08	2.48E-09	0.00E+00	5.09E-08	1.45E-08	4.46E-10	0.00E+00	1.49E-08	5.49E-09	1.44E-10	0.00E+00	5.63E-09
562	458045.3	3768246	4.98E-08	2.55E-09	0.00E+00	5.24E-08	4.98E-08	2.55E-09	0.00E+00	5.24E-08	1.49E-08	4.59E-10	0.00E+00	1.54E-08	5.65E-09	1.48E-10	0.00E+00	5.80E-09
563	458041.7	3768255	5.113E-08	2.62E-09	0.00E+00	5.37E-08	5.11E-08	2.62E-09	0.00E+00	5.37E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.80E-09	1.52E-10	0.00E+00	5.95E-09
564	458038.1	3768264	5.239E-08	2.69E-09	0.00E+00	5.51E-08	5.24E-08	2.69E-09	0.00E+00	5.51E-08	1.57E-08	4.83E-10	0.00E+00	1.62E-08	5.94E-09	1.56E-10	0.00E+00	6.10E-09
565	458034.5	3768273	5.356E-08	2.75E-09	0.00E+00	5.63E-08	5.36E-08	2.75E-09	0.00E+00	5.63E-08	1.60E-08	4.94E-10	0.00E+00	1.65E-08	6.08E-09	1.59E-10	0.00E+00	6.24E-09
566	458030.9	3768282	5.463E-08	2.80E-09	0.00E+00	5.74E-08	5.46E-08	2.80E-09	0.00E+00	5.74E-08	1.64E-08	5.04E-10	0.00E+00	1.69E-08	6.20E-09	1.63E-10	0.00E+00	6.36E-09
567	458027.3	3768290	5.556E-08	2.85E-09	0.00E+00	5.84E-08	5.56E-08	2.85E-09	0.00E+00	5.84E-08	1.66E-08	5.12E-10	0.00E+00	1.72E-08	6.30E-09	1.65E-10	0.00E+00	6.47E-09
568	458023.7	3768299	5.634E-08	2.89E-09	0.00E+00	5.92E-08	5.63E-08	2.89E-09	0.00E+00	5.92E-08	1.69E-08	5.19E-10	0.00E+00	1.74E-08	6.39E-09	1.68E-10	0.00E+00	6.56E-09
569	458020.1	3768308	5.698E-08	2.92E-09	0.00E+00	5.99E-08	5.70E-08	2.92E-09	0.00E+00	5.99E-08	1.71E-08	5.25E-10	0.00E+00	1.76E-08	6.46E-09	1.70E-10	0.00E+00	6.63E-09
570	458016.5	3768317	5.747E-08	2.95E-09	0.00E+00	6.04E-08	5.75E-08	2.95E-09	0.00E+00	6.04E-08	1.72E-08	5.30E-10	0.00E+00	1.77E-08	6.52E-09	1.71E-10	0.00E+00	6.69E-09
571	458012.9	3768326	5.78E-08	2.96E-09	0.00E+00	6.08E-08	5.78E-08	2.96E-09	0.00E+00	6.08E-08	1.73E-08	5.33E-10	0.00E+00	1.78E-08	6.56E-09	1.72E-10	0.00E+00	6.73E-09
572	458009.2	3768335	5.798E-08	2.97E-09	0.00E+00	6.10E-08	5.80E-08	2.97E-09	0.00E+00	6.10E-08	1.74E-08	5.34E-10	0.00E+00	1.79E-08	6.58E-09	1.73E-10	0.00E+00	6.75E-09
573	458005.6	3768344	5.8E-08	2.97E-09	0.00E+00	6.10E-08	5.80E-08	2.97E-09	0.00E+00	6.10E-08	1.74E-08	5.35E-10	0.00E+00	1.79E-08	6.58E-09	1.73E-10	0.00E+00	6.75E-09
574	458002	3768353	5.787E-08	2.97E-09	0.00E+00	6.08E-08	5.79E-08	2.97E-09	0.00E+00	6.08E-08	1.73E-08	5.33E-10	0.00E+00	1.79E-08	6.57E-09	1.72E-10	0.00E+00	6.74E-09
575	457998.4	3768362	5.758E-08	2.95E-09	0.00E+00	6.05E-08	5.76E-08	2.95E-09	0.00E+00	6.05E-08	1.72E-08	5.31E-10	0.00E+00	1.78E-08	6.53E-09	1.71E-10	0.00E+00	6.70E-09
576	457994.8	3768371	5.714E-08	2.93E-09	0.00E+00	6.01E-08	5.71E-08	2.93E-09	0.00E+00	6.01E-08	1.71E-08	5.27E-10	0.00E+00	1.76E-08	6.48E-09	1.70E-10	0.00E+00	6.65E-09
577	457991.2	3768380	5.658E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.69E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
578	457987.6	3768389	5.591E-08	2.87E-09	0.00E+00	5.88E-08	5.59E-08	2.87E-09	0.00E+00	5.88E-08	1.67E-08	5.15E-10	0.00E+00	1.73E-08	6.34E-09	1.66E-10	0.00E+00	6.51E-09
579	457958.8	3768460	4.654E-08	2.39E-09	0.00E+00	4.89E-08	4.65E-08	2.39E-09	0.00E+00	4.89E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.28E-09	1.38E-10	0.00E+00	5.42E-09
580	457955.1	3768469	4.507E-08	2.31E-09	0.00E+00	4.74E-08	4.51E-08	2.31E-09	0.00E+00	4.74E-08	1.35E-08	4.15E-10	0.00E+00	1.39E-08	5.11E-09	1.34E-10	0.00E+00	5.25E-09
581	457942.6	3768482	4.309E-08	2.21E-09	0.00E+00	4.53E-08	4.31E-08	2.21E-09	0.00E+00	4.53E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.89E-09	1.28E-10	0.00E+00	5.02E-09
582	457933.8	3768485	4.253E-08	2.18E-09	0.00E+00	4.47E-08	4.25E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.82E-09	1.27E-10	0.00E+00	4.95E-09
583	457924.9	3768489	4.189E-08	2.15E-09	0.00E+00	4.40E-08	4.19E-08	2.15E-09	0.00E+00	4.40E-08	1.25E-08	3.86E-10	0.00E+00	1.29E-08	4.75E-09	1.25E-10	0.00E+00	4.88E-09
584	457916	3768493	4.12E-08	2.11E-09	0.00E+00	4.33E-08	4.12E-08	2.11E-09	0.00E+00	4.33E-08	1.23E-08	3.80E-10	0.00E+00	1.27E-08	4.67E-09	1.23E-10	0.00E+00	4.80E-09
585	457907.1	3768497	4.043E-08	2.07E-09	0.00E+00	4.25E-08	4.04E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
586	457898.2	3768500	3.962E-08	2.03E-09	0.00E+00	4.16E-08	3.96E-08	2.03E-09	0.00E+00	4.16E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.61E-09
587	457889.3	3768504	3.874E-08	1.99E-09	0.00E+00	4.07E-08	3.87E-08	1.99E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.20E-08	4.40E-09	1.15E-10	0.00E+00	4.51E-09
588	457880.4	3768508	3.782E-08	1.94E-09	0.00E+00	3.98E-08	3.78E-08	1.94E-09	0.00E+00	3.98E-08	1.13E-08	3.49E-10	0.00E+00	1.17E-08	4.29E-09	1.13E-10	0.00E+00	4.40E-09
589	457871.6	3768511	3.686E-08	1.89E-09	0.00E+00	3.88E-08	3.69E-08	1.89E-09	0.00E+00	3.88E-08	1.10E-08	3.40E-10	0.00E+00	1.14E-08	4.18E-09	1.10E-10	0.00E+00	4.29E-09
590	457862.7	3768515	3.588E-08	1.84E-09	0.00E+00	3.77E-08	3.59E-08	1.84E-09	0.00E+00	3.77E-08	1.07E-08	3.31E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.18E-09
591	457853.8	3768519	3.487E-08	1.79E-09	0.00E+00	3.67E-08	3.49E-08	1.79E-09	0.00E+00	3.67E-08	1.04E-08	3.21E-10	0.00E+00	1.08E-08	3.96E-09	1.04E-10	0.00E+00	4.06E-09
592	457844.9	3768523	3.381E-08	1.73E-09	0.00E+00	3.55E-08	3.38E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.12E-10	0.00E+00	1.04E-08	3.84E-09	1.01E-10	0.00E+00	3.94E-09
593	457836	3768526	3.275E-08	1.68E-09	0.00E+00	3.44E-08	3.27E-08	1.68E-09	0.00E+00	3.44E-08	9.81E-09	3.02E-10	0.00E+00	1.01E-08	3.72E-09	9.75E-11	0.00E+00	3.81E-09
594	457827.1	3768530	3.173E-08	1.63E-09	0.00E+00	3.34E-08	3.17E-08	1.63E-09	0.00E+00	3.34E-08	9.50E-09	2.92E-10	0.00E+00	9.80E-09	3.60E-09	9.44E-11	0.00E+00	3.69E-09
595	457818.2	3768534	3.069E-08	1.57E-09	0.00E+00	3.23E-08	3.07E-08	1.57E-09	0.00E+00	3.23E-08	9.19E-09	2.83E-10	0.00E+00	9.48E-09	3.48E-09	9.13E-11	0.00E+00	3.57E-09
596	457809.4	3768537	2.963E-08	1.52E-09	0.00E+00	3.12E-08	2.96E-08	1.52E-09	0.00E+00	3.12E-08	8.87E-09	2.73E-10	0.00E+00	9.15E-09	3.36E-09	8.82E-11	0.00E+00	3.45E-09
597	457800.5	3768541	2.852E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.54E-09	2.63E-10	0.00E+00	8.80E-09	3.24E-09	8.49E-11	0.00E+00	3.32E-09
598	457791.6	3768545	2.74E-08	1.40E-09	0.00E+00	2.88E-08	2.74E-08	1.40E-09	0.00E+00	2.88E-08	8.21E-09	2.53E-10	0.00E+00	8.46E-09	3.11E-09	8.15E-11	0.00E+00	3.19E-09
599	457782.7	3768549	2.63E-08	1.35E-09	0.00E+00	2.77E-08	2.63E-08	1.35E-09	0.00E+00	2.77E-08	7.88E-09	2.42E-10	0.00E+00	8.12E-09	2.98E-09	7.83E-11	0.00E+00	3.06E-09
600	457773.8	3768552	2.526E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.57E-09	2.33E-10	0.00E+00	7.80E-09	2.87E-09	7.52E-11	0.00E+00	2.94E-09
601	457764.9	3768556	2.429E-08	1.25E-09	0.00E+00	2.55E-08	2.43E-08	1.25E-09	0.00E+00	2.55E-08	7.27E-09	2.24E-10	0.00E+00	7.50E-09	2.76E-09	7.23E-11	0.00E+00	2.83E-09
602	457756	3768560	2.334E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.99E-09	2.15E-10	0.00E+00	7.20E-09	2.65E-09	6.94E-11	0.00E+00	2.72E-09
603	457747.1	3768563	2.237E-08	1.15E-09	0.00E+00	2.35E-08	2.24E-08	1.15E-09	0.00E+00	2.35E-08	6.70E-09	2.06E-10	0.00E+00	6.91E-09	2.54E-09	6.66E-11	0.00E+00	2.60E-09
604	457738.3	3768567	2.141E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.41E-09	1.97E-10	0.00E+00	6.61E-09	2.43E-09	6.37E-11	0.00E+00	2.49E-09
605	458052.5	3768228	4.692E-08	2.41E-09	0.00E+00	4.93E-08	4.69E-08	2.41E-09	0.00E+00	4.93E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.32E-09	1.40E-10	0.00E+00	5.46E-09
606	458052.4	3768218	4.598E-08	2.36E-09	0.00E+00	4.83E-08	4.60E-08	2.36E-09	0.00E+00	4.83E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.35E-09
607	458052.3	3768209	4.495E-08	2.30E-09	0.00E+00	4.73E-08	4.49E-08	2.30E-09	0.00E+00	4.73E-08	1.35E-08	4.14E-10	0.00E+00	1.39E-08	5.10E-09	1.34E-10	0.00E+00	5.23E-09
608	458052.2	3768199	4.383E-08	2.25E-09	0.00E+00	4.61E-08	4.38E-08	2.25E-09	0.00E+00	4.61E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.97E-09	1.30E-10	0.00E+00	5.10E-09
609	458052.1	3768189	4.267E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
610	458052	3768180	4.145E-08	2.13E-09	0.00E+00	4.36E-08	4.15E-08	2.13E-09	0.00E+00	4.36E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.83E-09
611	458051.9	3768170	4.02E-08	2.06E-09	0.00E+00	4.23E-08	4.02E-08	2.06E-09	0.00E+00	4.23E-08	1.20E-08	3.71E-10	0.00E+00	1.24E-08	4.56E-09	1.20E-10	0.00E+00	4.68E-09
612	458051.7	3768160	3.888E-08	1.99E-09	0.00E+00	4.09E-08	3.89E-08	1.99E-09	0.00E+00	4.09E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.53E-09
613	458051.6	3768151	3.752E-08	1.92E-09	0.00E+00	3.94E-08	3.75E-08	1.92E-09	0.00E+00	3.94E-08	1.12E-08	3.46E-10	0.00E+00	1.16E-08	4.26E-09	1.12E-10	0.00E+00	4.37E-09
614	458051.5	3768141	3.614E-08	1.85E-09	0.00E+00	3.80E-08	3.61E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.08E-10	0.00E+00	4.21E-09
615	458051.4	3768132	3.537E-08	1.81E-09	0.00E+00	3.72E-08	3.54E-08	1.81E-09	0.00E+00	3.72E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.01E-09	1.05E-10	0.00E+00	4.12E-09
616	458051.3	3768122	3.408E-08	1.75E-09	0.00E+00	3.58E-08	3.41E-08	1.75E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.87E-09	1.01E-10	0.00E+00	3.97E-09
617	458051.2	3768112	3.278E-08	1.68E-09	0.00E+00	3.45E-08	3.28E-08	1.68E-09	0.00E+00	3.45E-08	9.82E-09	3.02E-10	0.00E+00	1.01E-08	3.72E-09	9.76E-11	0.00E+00	3.82E-09
618	458051.1	3768103	3.149E-08	1.61E-09	0.00E+00	3.31E-08	3.15E-08	1.61E-09	0.00E+00	3.31E-08	9.43E-09	2.90E-10	0.00E+00	9.72E-09	3.57E-09	9.37E-11	0.00E+00	3.67E-09
619	458051	3768093	3.02E-08	1.55E-09	0.00E+00	3.17E-08	3.02E-08	1.55E-09	0.00E+00	3.17E-08	9.05E-09	2.78E-10	0.00E+00	9.32E-09	3.43E-09	8.99E-11	0.00E+00	3.52E-09
620	458050.8	3768083	2.893E-08	1.48E-09	0.00E+00	3.04E-08	2.89E-08	1.48E-09	0.00E+00	3.04E-08	8.66E-09	2.67E-10	0.00E+00	8.93E-09	3.28E-09	8.61E-11	0.00E+00	3.37E-09
621	458050.7	3768074	2.768E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.29E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.22E-09
622	458050.6	3768064	2.647E-08	1.36E-09	0.00E+00	2.78E-08	2.65E-08	1.36E-09	0.00E+00	2.78E-08	7.93E-09	2.44E-10	0.00E+00	8.17E-09	3.00E-09	7.88E-11	0.00E+00	3.08E-09
623	458050.5	3768054	2.529E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.58E-09	2.33E-10	0.00E+00	7.81E-09	2.87E-09	7.53E-11	0.00E+00	2.94E-09
624	458050.4	3768045	2.415E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.23E-09	2.23E-10	0.00E+00	7.46E-09	2.74E-09	7.19E-11	0.00E+00	2.81E-09
625	458050.3	3768035	2.304E-08	1.18E-09	0.00E+00	2.42E-08	2.30E-08	1.18E-09	0.00E+00	2.42E-08	6.90E-09	2.12E-10	0.00E+00	7.11E-09	2.61E-09	6.86E-11	0.00E+00	2.68E-09
626	458050.2	3768026	2.197E-08	1.13E-09	0.00E+00	2.31E-08	2.20E-08	1.13E-09	0.00E+00	2.31E-08	6.58E-09	2.02E-10	0.00E+00	6.78E-09	2.49E-09	6.54E-11	0.00E+00	2.56E-09
627	458073.9	3768237	4.404E-08	2.26E-09	0.00E+00	4.63E-08	4.40E-08	2.26E-09	0.00E+00	4.63E-08	1.32E-08	4.06E-10	0.00E+00	1.36E-08	5.00E-09	1.31E-10	0.00E+00	5.13E-09
628	458070.3	3768245	4.535E-08	2.32E-09	0.00E+00	4.77E-08	4.53E-08	2.32E-09	0.00E+00	4.77E-08	1.36E-08	4.18E-10	0.00E+00	1.40E-08	5.14E-09	1.35E-10	0.00E+00	5.28E-09
629	458066.7	3768254	4.659E-08	2.39E-09	0.00E+00	4.90E-08	4.66E-08	2.39E-09	0.00E+00	4.90E-08	1.40E-08	4.29E-10	0.00E+00	1.44E-08	5.29E-09	1.39E-10	0.00E+00	5.42E-09
630	458063.1	3768263	4.777E-08	2.45E-09	0.00E+00	5.02E-08	4.78E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.47E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
631	458059.5	3768272	4.887E-08	2.51E-09	0.00E+00	5.14E-08	4.89E-08	2.51E-09	0.00E+00	5.14E-08	1.46E-08	4.51E-10	0.00E+00	1.51E-08	5.54E-09	1.45E-10	0.00E+00	5.69E-09
632	458055.9	3768281	4.99E-08	2.56E-09	0.00E+00	5.25E-08	4.99E-08	2.56E-09	0.00E+00	5.25E-08	1.49E-08	4.60E-10	0.00E+00	1.54E-08	5.66E-09	1.48E-10	0.00E+00	5.81E-09
633	458052.3	3768290	5.082E-08	2.61E-09	0.00E+00	5.34E-08	5.08E-08	2.61E-09	0.00E+00	5.34E-08	1.52E-08	4.69E-10	0.00E+00	1.57E-08	5.77E-09	1.51E-10	0.00E+00	5.92E-09
634	458048.7	3768299	5.163E-08	2.65E-09	0.00E+00	5.43E-08	5.16E-08	2.65E-09	0.00E+00	5.43E-08	1.55E-08	4.76E-10	0.00E+00	1.59E-08	5.86E-09	1.54E-10	0.00E+00	6.01E-09
635	458045.1	3768308	5.233E-08	2.68E-09	0.00E+00	5.50E-08	5.23E-08	2.68E-09	0.00E+00	5.50E-08	1.57E-08	4.82E-10	0.00E+00	1.62E-08	5.94E-09	1.56E-10	0.00E+00	6.09E-09
636	458041.5	3768317	5.29E-08	2.71E-09	0.00E+00	5.56E-08	5.29E-08	2.71E-09	0.00E+00	5.56E-08	1.58E-08	4.88E-10	0.00E+00	1.63E-08	6.00E-09	1.57E-10	0.00E+00	6.16E-09
637	458037.9	3768326	5.334E-08	2.73E-09	0.00E+00	5.61E-08	5.33E-08	2.73E-09	0.00E+00	5.61E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.05E-09	1.59E-10	0.00E+00	6.21E-09
638	458034.2	3768335	5.365E-08	2.75E-09	0.00E+00	5.64E-08	5.37E-08	2.75E-09	0.00E+00	5.64E-08	1.61E-08	4.95E-10	0.00E+00	1.66E-08	6.09E-09	1.60E-10	0.00E+00	6.25E-09
639	458030.6	3768344	5.383E-08	2.76E-09	0.00E+00	5.66E-08	5.38E-08	2.76E-09	0.00E+00	5.66E-08	1.61E-08	4.96E-10	0.00E+00	1.66E-08	6.11E-09	1.60E-10	0.00E+00	6.27E-09
640	458027	3768353	5.389E-08	2.76E-09	0.00E+00	5.66E-08	5.39E-08	2.76E-09	0.00E+00	5.66E-08	1.61E-08	4.97E-10	0.00E+00	1.66E-08	6.11E-09	1.60E-10	0.00E+00	6.27E-09
641	458023.4	3768362	5.38E-08	2.76E-09	0.00E+00	5.66E-08	5.38E-08	2.76E-09	0.00E+00	5.66E-08	1.61E-08	4.96E-10	0.00E+00	1.66E-08	6.10E-09	1.60E-10	0.00E+00	6.26E-09
642	458019.8	3768371	5.357E-08	2.75E-09	0.00E+00	5.63E-08	5.36E-08	2.75E-09	0.00E+00	5.63E-08	1.60E-08	4.94E-10	0.00E+00	1.65E-08	6.08E-09	1.59E-10	0.00E+00	6.24E-09
643	458016.2	3768379	5.324E-08	2.73E-09	0.00E+00	5.60E-08	5.32E-08	2.73E-09	0.00E+00	5.60E-08	1.59E-08	4.91E-10	0.00E+00	1.64E-08	6.04E-09	1.58E-10	0.00E+00	6.20E-09
644	458012.6	3768388	5.282E-08	2.71E-09	0.00E+00	5.55E-08	5.28E-08	2.71E-09	0.00E+00	5.55E-08	1.58E-08	4.87E-10	0.00E+00	1.63E-08	5.99E-09	1.57E-10	0.00E+00	6.15E-09
645	457983.7	3768460	4.545E-08	2.33E-09	0.00E+00	4.78E-08	4.55E-08	2.33E-09	0.00E+00	4.78E-08	1.36E-08	4.19E-10	0.00E+00	1.40E-08	5.16E-09	1.35E-10	0.00E+00	5.29E-09
646	457980.1	3768469	4.42E-08	2.27E-09	0.00E+00	4.65E-08	4.42E-08	2.27E-09	0.00E+00	4.65E-08	1.32E-08	4.07E-10	0.00E+00	1.36E-08	5.01E-09	1.32E-10	0.00E+00	5.15E-09
647	457976.5	3768478	4.291E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.29E-08	3.96E-10	0.00E+00	1.32E-08	4.87E-09	1.28E-10	0.00E+00	5.00E-09
648	457972.9	3768487	4.159E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.25E-08	3.83E-10	0.00E+00	1.28E-08	4.72E-09	1.24E-10	0.00E+00	4.84E-09
649	457960.4	3768499	3.979E-08	2.04E-09	0.00E+00	4.18E-08	3.98E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
650	457951.5	3768503	3.927E-08	2.01E-09	0.00E+00	4.13E-08	3.93E-08	2.01E-09	0.00E+00	4.13E-08	1.18E-08	3.62E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.57E-09
651	457942.7	3768507	3.869E-08	1.98E-09	0.00E+00	4.07E-08	3.87E-08	1.98E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.19E-08	4.39E-09	1.15E-10	0.00E+00	4.50E-09
652	457933.8	3768510	3.806E-08	1.95E-09	0.00E+00	4.00E-08	3.81E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.51E-10	0.00E+00	1.18E-08	4.32E-09	1.13E-10	0.00E+00	4.43E-09
653	457924.9	3768514	3.738E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
654	457916	3768518	3.664E-08	1.88E-09	0.00E+00	3.85E-08	3.66E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.16E-09	1.09E-10	0.00E+00	4.27E-09
655	457907.1	3768522	3.586E-08	1.84E-09	0.00E+00	3.77E-08	3.59E-08	1.84E-09	0.00E+00	3.77E-08	1.07E-08	3.31E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.18E-09
656	457898.2	3768525	3.504E-08	1.80E-09	0.00E+00	3.68E-08	3.50E-08	1.80E-09	0.00E+00	3.68E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.08E-09
657	457889.3	3768529	3.416E-08	1.75E-09	0.00E+00	3.59E-08	3.42E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.05E-08	3.88E-09	1.02E-10	0.00E+00	3.98E-09
658	457880.5	3768533	3.327E-08	1.71E-09	0.00E+00	3.50E-08	3.33E-08	1.71E-09	0.00E+00	3.50E-08	9.96E-09	3.07E-10	0.00E+00	1.03E-08	3.77E-09	9.90E-11	0.00E+00	3.87E-09
659	457871.6	3768536	3.236E-08	1.66E-09	0.00E+00	3.40E-08	3.24E-08	1.66E-09	0.00E+00	3.40E-08	9.69E-09	2.98E-10	0.00E+00	9.99E-09	3.67E-09	9.63E-11	0.00E+00	3.77E-09
660	457862.7	3768540	3.142E-08	1.61E-09	0.00E+00	3.30E-08	3.14E-08	1.61E-09	0.00E+00	3.30E-08	9.41E-09	2.90E-10	0.00E+00	9.70E-09	3.56E-09	9.35E-11	0.00E+00	3.66E-09
661	457853.8	3768544	3.046E-08	1.56E-09	0.00E+00	3.20E-08	3.05E-08	1.56E-09	0.00E+00	3.20E-08	9.12E-09	2.81E-10	0.00E+00	9.40E-09	3.46E-09	9.06E-11	0.00E+00	3.55E-09
662	457844.9	3768548	2.949E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.83E-09	2.72E-10	0.00E+00	9.10E-09	3.35E-09	8.78E-11	0.00E+00	3.43E-09
663	457836	3768551	2.852E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.54E-09	2.63E-10	0.00E+00	8.80E-09	3.24E-09	8.49E-11	0.00E+00	3.32E-09
664	457827.1	3768555	2.754E-08	1.41E-09	0.00E+00	2.89E-08	2.75E-08	1.41E-09	0.00E+00	2.89E-08	8.25E-09	2.54E-10	0.00E+00	8.50E-09	3.12E-09	8.19E-11	0.00E+00	3.21E-09
665	457818.2	3768559	2.655E-08	1.36E-09	0.00E+00	2.79E-08	2.66E-08	1.36E-09	0.00E+00	2.79E-08	7.95E-09	2.45E-10	0.00E+00	8.20E-09	3.01E-09	7.90E-11	0.00E+00	3.09E-09
666	457809.4	3768562	2.558E-08	1.31E-09	0.00E+00	2.69E-08	2.56E-08	1.31E-09	0.00E+00	2.69E-08	7.66E-09	2.36E-10	0.00E+00	7.90E-09	2.90E-09	7.61E-11	0.00E+00	2.98E-09
667	457800.5	3768566	2.461E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.37E-09	2.27E-10	0.00E+00	7.60E-09	2.79E-09	7.32E-11	0.00E+00	2.87E-09
668	457791.6	3768570	2.366E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.09E-09	2.18E-10	0.00E+00	7.31E-09	2.68E-09	7.04E-11	0.00E+00	2.76E-09
669	457782.7	3768574	2.273E-08	1.17E-09	0.00E+00	2.39E-08	2.27E-08	1.17E-09	0.00E+00	2.39E-08	6.81E-09	2.09E-10	0.00E+00	7.02E-09	2.58E-09	6.76E-11	0.00E+00	2.65E-09

670	457773.8	3768577	2.182E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.54E-09	2.01E-10	0.00E+00	6.74E-09	2.48E-09	6.49E-11	0.00E+00	2.54E-09
671	457764.9	3768581	2.093E-08	1.07E-09	0.00E+00	2.20E-08	2.09E-08	1.07E-09	0.00E+00	2.20E-08	6.27E-09	1.93E-10	0.00E+00	6.46E-09	2.38E-09	6.23E-11	0.00E+00	2.44E-09
672	457756	3768585	2.005E-08	1.03E-09	0.00E+00	2.11E-08	2.00E-08	1.03E-09	0.00E+00	2.11E-08	6.00E-09	1.85E-10	0.00E+00	6.19E-09	2.27E-09	5.97E-11	0.00E+00	2.33E-09
673	457747.2	3768588	1.921E-08	9.85E-10	0.00E+00	2.02E-08	1.92E-08	9.85E-10	0.00E+00	2.02E-08	5.75E-09	1.77E-10	0.00E+00	5.93E-09	2.18E-09	5.72E-11	0.00E+00	2.24E-09
674	457738.3	3768592	1.844E-08	9.45E-10	0.00E+00	1.94E-08	1.84E-08	9.45E-10	0.00E+00	1.94E-08	5.52E-09	1.70E-10	0.00E+00	5.69E-09	2.09E-09	5.49E-11	0.00E+00	2.15E-09
675	458077.5	3768228	4.27E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.94E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
676	458077.4	3768218	4.182E-08	2.14E-09	0.00E+00	4.40E-08	4.18E-08	2.14E-09	0.00E+00	4.40E-08	1.25E-08	3.86E-10	0.00E+00	1.29E-08	4.74E-09	1.24E-10	0.00E+00	4.87E-09
677	458077.3	3768208	4.087E-08	2.10E-09	0.00E+00	4.30E-08	4.09E-08	2.10E-09	0.00E+00	4.30E-08	1.22E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.76E-09
678	458077.2	3768199	3.986E-08	2.04E-09	0.00E+00	4.19E-08	3.99E-08	2.04E-09	0.00E+00	4.19E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.52E-09	1.19E-10	0.00E+00	4.64E-09
679	458077.1	3768189	3.879E-08	1.99E-09	0.00E+00	4.08E-08	3.88E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.40E-09	1.15E-10	0.00E+00	4.52E-09
680	458077	3768179	3.767E-08	1.93E-09	0.00E+00	3.96E-08	3.77E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.39E-09
681	458076.9	3768170	3.651E-08	1.87E-09	0.00E+00	3.84E-08	3.65E-08	1.87E-09	0.00E+00	3.84E-08	1.09E-08	3.37E-10	0.00E+00	1.13E-08	4.14E-09	1.09E-10	0.00E+00	4.25E-09
682	458076.7	3768160	3.534E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.01E-09	1.05E-10	0.00E+00	4.11E-09
683	458076.6	3768151	3.416E-08	1.75E-09	0.00E+00	3.59E-08	3.42E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.05E-08	3.88E-09	1.02E-10	0.00E+00	3.98E-09
684	458076.5	3768141	3.298E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.88E-09	3.04E-10	0.00E+00	1.02E-08	3.74E-09	9.81E-11	0.00E+00	3.84E-09
685	458076.4	3768131	3.236E-08	1.66E-09	0.00E+00	3.40E-08	3.24E-08	1.66E-09	0.00E+00	3.40E-08	9.69E-09	2.98E-10	0.00E+00	9.99E-09	3.67E-09	9.63E-11	0.00E+00	3.77E-09
686	458076.3	3768122	3.123E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.35E-09	2.88E-10	0.00E+00	9.64E-09	3.54E-09	9.29E-11	0.00E+00	3.64E-09
687	458076.2	3768112	3.009E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.01E-09	2.77E-10	0.00E+00	9.29E-09	3.41E-09	8.95E-11	0.00E+00	3.50E-09
688	458076.1	3768102	2.895E-08	1.48E-09	0.00E+00	3.04E-08	2.89E-08	1.48E-09	0.00E+00	3.04E-08	8.67E-09	2.67E-10	0.00E+00	8.94E-09	3.28E-09	8.61E-11	0.00E+00	3.37E-09
689	458076	3768093	2.781E-08	1.43E-09	0.00E+00	2.92E-08	2.78E-08	1.43E-09	0.00E+00	2.92E-08	8.33E-09	2.56E-10	0.00E+00	8.59E-09	3.16E-09	8.28E-11	0.00E+00	3.24E-09
690	458075.8	3768083	2.669E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.00E-09	2.46E-10	0.00E+00	8.24E-09	3.03E-09	7.94E-11	0.00E+00	3.11E-09
691	458075.7	3768073	2.56E-08	1.31E-09	0.00E+00	2.69E-08	2.56E-08	1.31E-09	0.00E+00	2.69E-08	7.67E-09	2.36E-10	0.00E+00	7.90E-09	2.90E-09	7.62E-11	0.00E+00	2.98E-09
692	458075.6	3768064	2.453E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.35E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.30E-11	0.00E+00	2.86E-09
693	458075.5	3768054	2.349E-08	1.20E-09	0.00E+00	2.47E-08	2.35E-08	1.20E-09	0.00E+00	2.47E-08	7.04E-09	2.17E-10	0.00E+00	7.25E-09	2.66E-09	6.99E-11	0.00E+00	2.73E-09
694	458075.4	3768045	2.247E-08	1.15E-09	0.00E+00	2.36E-08	2.25E-08	1.15E-09	0.00E+00	2.36E-08	6.73E-09	2.07E-10	0.00E+00	6.94E-09	2.55E-09	6.69E-11	0.00E+00	2.62E-09
695	458075.3	3768035	2.149E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
696	458075.2	3768025	2.053E-08	1.05E-09	0.00E+00	2.16E-08	2.05E-08	1.05E-09	0.00E+00	2.16E-08	6.15E-09	1.89E-10	0.00E+00	6.34E-09	2.33E-09	6.11E-11	0.00E+00	2.39E-09
697	458098.9	3768236	4.025E-08	2.06E-09	0.00E+00	4.23E-08	4.02E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
698	458095.3	3768245	4.144E-08	2.12E-09	0.00E+00	4.36E-08	4.14E-08	2.12E-09	0.00E+00	4.36E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.82E-09
699	458091.7	3768254	4.26E-08	2.18E-09	0.00E+00	4.48E-08	4.26E-08	2.18E-09	0.00E+00	4.48E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.83E-09	1.27E-10	0.00E+00	4.96E-09
700	458088.1	3768263	4.371E-08	2.24E-09	0.00E+00	4.59E-08	4.37E-08	2.24E-09	0.00E+00	4.59E-08	1.31E-08	4.03E-10	0.00E+00	1.35E-08	4.96E-09	1.30E-10	0.00E+00	5.09E-09
701	458084.5	3768272	4.475E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
702	458080.9	3768281	4.572E-08	2.34E-09	0.00E+00	4.81E-08	4.57E-08	2.34E-09	0.00E+00	4.81E-08	1.37E-08	4.21E-10	0.00E+00	1.41E-08	5.19E-09	1.36E-10	0.00E+00	5.32E-09
703	458077.3	3768290	4.662E-08	2.39E-09	0.00E+00	4.90E-08	4.66E-08	2.39E-09	0.00E+00	4.90E-08	1.40E-08	4.30E-10	0.00E+00	1.44E-08	5.29E-09	1.39E-10	0.00E+00	5.43E-09
704	458073.7	3768299	4.743E-08	2.43E-09	0.00E+00	4.99E-08	4.74E-08	2.43E-09	0.00E+00	4.99E-08	1.42E-08	4.37E-10	0.00E+00	1.46E-08	5.38E-09	1.41E-10	0.00E+00	5.52E-09
705	458070.1	3768308	4.814E-08	2.47E-09	0.00E+00	5.06E-08	4.81E-08	2.47E-09	0.00E+00	5.06E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.46E-09	1.43E-10	0.00E+00	5.61E-09
706	458066.5	3768317	4.876E-08	2.50E-09	0.00E+00	5.13E-08	4.88E-08	2.50E-09	0.00E+00	5.13E-08	1.46E-08	4.49E-10	0.00E+00	1.51E-08	5.53E-09	1.45E-10	0.00E+00	5.68E-09
707	458062.9	3768326	4.929E-08	2.53E-09	0.00E+00	5.18E-08	4.93E-08	2.53E-09	0.00E+00	5.18E-08	1.48E-08	4.54E-10	0.00E+00	1.52E-08	5.59E-09	1.47E-10	0.00E+00	5.74E-09
708	458059.2	3768335	4.971E-08	2.55E-09	0.00E+00	5.23E-08	4.97E-08	2.55E-09	0.00E+00	5.23E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
709	458055.6	3768343	5E-08	2.56E-09	0.00E+00	5.26E-08	5.00E-08	2.56E-09	0.00E+00	5.26E-08	1.50E-08	4.61E-10	0.00E+00	1.54E-08	5.67E-09	1.49E-10	0.00E+00	5.82E-09
710	458052	3768352	5.019E-08	2.57E-09	0.00E+00	5.28E-08	5.02E-08	2.57E-09	0.00E+00	5.28E-08	1.50E-08	4.63E-10	0.00E+00	1.55E-08	5.69E-09	1.49E-10	0.00E+00	5.84E-09
711	458048.4	3768361	5.029E-08	2.58E-09	0.00E+00	5.29E-08	5.03E-08	2.58E-09	0.00E+00	5.29E-08	1.51E-08	4.64E-10	0.00E+00	1.55E-08	5.71E-09	1.50E-10	0.00E+00	5.86E-09
712	458044.8	3768370	5.027E-08	2.58E-09	0.00E+00	5.28E-08	5.03E-08	2.58E-09	0.00E+00	5.28E-08	1.51E-08	4.63E-10	0.00E+00	1.55E-08	5.70E-09	1.50E-10	0.00E+00	5.85E-09
713	458041.2	3768379	5.011E-08	2.57E-09	0.00E+00	5.27E-08	5.01E-08	2.57E-09	0.00E+00	5.27E-08	1.50E-08	4.62E-10	0.00E+00	1.55E-08	5.69E-09	1.49E-10	0.00E+00	5.83E-09
714	458037.6	3768388	4.984E-08	2.55E-09	0.00E+00	5.24E-08	4.98E-08	2.55E-09	0.00E+00	5.24E-08	1.49E-08	4.59E-10	0.00E+00	1.54E-08	5.65E-09	1.48E-10	0.00E+00	5.80E-09
715	458008.7	3768460	4.415E-08	2.26E-09	0.00E+00	4.64E-08	4.42E-08	2.26E-09	0.00E+00	4.64E-08	1.32E-08	4.07E-10	0.00E+00	1.36E-08	5.01E-09	1.31E-10	0.00E+00	5.14E-09
716	458005.1	3768468	4.311E-08	2.21E-09	0.00E+00	4.53E-08	4.31E-08	2.21E-09	0.00E+00	4.53E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.89E-09	1.28E-10	0.00E+00	5.02E-09
717	458001.5	3768477	4.202E-08	2.15E-09	0.00E+00	4.42E-08	4.20E-08	2.15E-09	0.00E+00	4.42E-08	1.26E-08	3.87E-10	0.00E+00	1.30E-08	4.77E-09	1.25E-10	0.00E+00	4.89E-09
718	457997.9	3768486	4.088E-08	2.10E-09	0.00E+00	4.30E-08	4.09E-08	2.10E-09	0.00E+00	4.30E-08	1.22E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.76E-09
719	457994.3	3768495	3.97E-08	2.04E-09	0.00E+00	4.17E-08	3.97E-08	2.04E-09	0.00E+00	4.17E-08	1.19E-08	3.66E-10	0.00E+00	1.23E-08	4.50E-09	1.18E-10	0.00E+00	4.62E-09
720	457990.7	3768504	3.849E-08	1.97E-09	0.00E+00	4.05E-08	3.85E-08	1.97E-09	0.00E+00	4.05E-08	1.15E-08	3.55E-10	0.00E+00	1.19E-08	4.37E-09	1.15E-10	0.00E+00	4.48E-09
721	457978.2	3768517	3.684E-08	1.89E-09	0.00E+00	3.87E-08	3.68E-08	1.89E-09	0.00E+00	3.87E-08	1.10E-08	3.40E-10	0.00E+00	1.14E-08	4.18E-09	1.10E-10	0.00E+00	4.29E-09
722	457969.3	3768521	3.636E-08	1.86E-09	0.00E+00	3.82E-08	3.64E-08	1.86E-09	0.00E+00	3.82E-08	1.09E-08	3.35E-10	0.00E+00	1.12E-08	4.12E-09	1.08E-10	0.00E+00	4.23E-09
723	457960.4	3768524	3.581E-08	1.84E-09	0.00E+00	3.76E-08	3.58E-08	1.84E-09	0.00E+00	3.76E-08	1.07E-08	3.30E-10	0.00E+00	1.11E-08	4.06E-09	1.07E-10	0.00E+00	4.17E-09
724	457951.6	3768528	3.524E-08	1.81E-09	0.00E+00	3.70E-08	3.52E-08	1.81E-09	0.00E+00	3.70E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
725	457942.7	3768532	3.463E-08	1.78E-09	0.00E+00	3.64E-08	3.46E-08	1.78E-09	0.00E+00	3.64E-08	1.04E-08	3.19E-10	0.00E+00	1.07E-08	3.93E-09	1.03E-10	0.00E+00	4.03E-09
726	457933.8	3768535	3.397E-08	1.74E-09	0.00E+00	3.57E-08	3.40E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.85E-09	1.01E-10	0.00E+00	3.95E-09
727	457924.9	3768539	3.325E-08	1.70E-09	0.00E+00	3.50E-08	3.32E-08	1.70E-09	0.00E+00	3.50E-08	9.96E-09	3.07E-10	0.00E+00	1.03E-08	3.77E-09	9.89E-11	0.00E+00	3.87E-09
728	457916	3768543	3.248E-08	1.67E-09	0.00E+00	3.41E-08	3.25E-08	1.67E-09	0.00E+00	3.41E-08	9.73E-09	2.99E-10	0.00E+00	1.00E-08	3.69E-09	9.67E-11	0.00E+00	3.78E-09
729	457907.1	3768547	3.168E-08	1.62E-09	0.00E+00	3.33E-08	3.17E-08	1.62E-09	0.00E+00	3.33E-08	9.49E-09	2.92E-10	0.00E+00	9.78E-09	3.59E-09	9.43E-11	0.00E+00	3.69E-09
730	457898.2	3768550	3.086E-08	1.58E-09	0.00E+00	3.24E-08	3.09E-08	1.58E-09	0.00E+00	3.24E-08	9.24E-09	2.84E-10	0.00E+00	9.53E-09	3.50E-09	9.18E-11	0.00E+00	3.59E-09
731	457889.4	3768554	3.004E-08	1.54E-09	0.00E+00	3.16E-08	3.00E-08	1.54E-09	0.00E+00	3.16E-08	9.00E-09	2.77E-10	0.00E+00	9.28E-09	3.41E-09	8.94E-11	0.00E+00	3.50E-09
732	457880.5	3768558	2.923E-08	1.50E-09	0.00E+00	3.07E-08	2.92E-08	1.50E-09	0.00E+00	3.07E-08	8.76E-09	2.69E-10	0.00E+00	9.02E-09	3.32E-09	8.70E-11	0.00E+00	3.40E-09
733	457871.6	3768561	2.84E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.51E-09	2.62E-10	0.00E+00	8.77E-09	3.22E-09	8.45E-11	0.00E+00	3.31E-09
734	457862.7	3768565	2.752E-08	1.41E-09	0.00E+00	2.89E-08	2.75E-08	1.41E-09	0.00E+00	2.89E-08	8.24E-09	2.54E-10	0.00E+00	8.50E-09	3.12E-09	8.19E-11	0.00E+00	3.20E-09
735	457853.8	3768569	2.664E-08	1.37E-09	0.00E+00	2.80E-08	2.66E-08	1.37E-09	0.00E+00	2.80E-08	7.98E-09	2.46E-10	0.00E+00	8.22E-09	3.02E-09	7.93E-11	0.00E+00	3.10E-09
736	457844.9	3768573	2.578E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.72E-09	2.38E-10	0.00E+00	7.96E-09	2.92E-09	7.67E-11	0.00E+00	3.00E-09
737	457836	3768576	2.491E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.46E-09	2.30E-10	0.00E+00	7.69E-09	2.83E-09	7.41E-11	0.00E+00	2.90E-09
738	457827.1	3768580	2.403E-08	1.23E-09	0.00E+00	2.53E-08	2.40E-08	1.23E-09	0.00E+00	2.53E-08	7.20E-09	2.22E-10	0.00E+00	7.42E-09	2.73E-09	7.15E-11	0.00E+00	2.80E-09
739	457818.3	3768584	2.315E-08	1.19E-09	0.00E+00	2.43E-08	2.32E-08	1.19E-09	0.00E+00	2.43E-08	6.93E-09	2.13E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
740	457809.4	3768587	2.229E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.68E-09	2.05E-10	0.00E+00	6.88E-09	2.53E-09	6.63E-11	0.00E+00	2.60E-09
741	457800.5	3768591	2.144E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
742	457791.6	3768595	2.06E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.17E-09	1.90E-10	0.00E+00	6.36E-09	2.34E-09	6.13E-11	0.00E+00	2.40E-09
743	457782.7	3768599	1.978E-08	1.01E-09	0.00E+00	2.08E-08	1.98E-08	1.01E-09	0.00E+00	2.08E-08	5.93E-09	1.82E-10	0.00E+00	6.11E-09	2.24E-09	5.89E-11	0.00E+00	2.30E-09
744	457773.8	3768602	1.898E-08	9.73E-10	0.00E+00	2.00E-08	1.90E-08	9.73E-10	0.00E+00	2.00E-08	5.69E-09	1.75E-10	0.00E+00	5.86E-09	2.15E-09	5.65E-11	0.00E+00	2.21E-09
745	457764.9	3768606	1.821E-08	9.33E-10	0.00E+00	1.91E-08	1.82E-08	9.33E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.07E-09	5.42E-11	0.00E+00	2.12E-09
746	457756.1	3768610	1.745E-08	8.95E-10	0.00E+00	1.83E-08	1.75E-08	8.95E-10	0.00E+00	1.83E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.19E-11	0.00E+00	2.03E-09
747	457747.2	3768613	1.672E-08	8.57E-10	0.00E+00	1.76E-08	1.67E-08	8.57E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.16E-09	1.90E-09	4.98E-11	0.00E+00	1.95E-09
748	457738.3	3768617	1.602E-08	8.21E-10	0.00E+00	1.68E-08	1.60E-08	8.21E-10	0.00E+00	1.68E-08	4.80E-09	1.48E-10	0.00E+00	4.94E-09	1.82E-09	4.77E-11	0.00E+00	1.86E-09
749	457729.4	3768621	1.534E-08	7.86E-10	0.00E+00	1.61E-08	1.53E-08	7.86E-10	0.00E+00	1.61E-08	4.59E-09	1.41E-10	0.00E+00	4.73E-09	1.74E-09	4.56E-11	0.00E+00	1.79E-09
750	458139	3768236	3.509E-08	1.80E-09	0.00E+00	3.69E-08	3.51E-08	1.80E-09	0.00E+00	3.69E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.98E-09	1.04E-10	0.00E+00	4.09E-09
751	458135.5	3768244	3.611E-08	1.85E-09	0.00E+00	3.80E-08	3.61E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.11E-08	4.10E-09	1.07E-10	0.00E+00	4.20E-09
752	458131.9	3768253	3.71E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
753	458128.4	3768262	3.806E-08	1.95E-09	0.00E+00	4.00E-08	3.81E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.51E-10	0.00E+00	1.18E-08	4.32E-09	1.13E-10	0.00E+00	4.43E-09
754	458100.2	3768332	4.395E-08	2.25E-09	0.00E+00	4.62E-08	4.40E-08	2.25E-09	0.00E+00	4.62E-08	1.32E-08	4.05E-10	0.00E+00	1.36E-08	4.99E-09	1.31E-10	0.00E+00	5.12E-09
755	458096.7	3768340	4.44E-08	2.28E-09	0.00E+00	4.67E-08	4.44E-08	2.28E-09	0.00E+00	4.67E-08	1.33E-08	4.09E-10	0.00E+00	1.37E-08	5.04E-09	1.32E-10	0.00E+00	5.17E-09
756	458093.1	3768349	4.477E-08	2.30E-09	0.00E+00	4.71E-08	4.48E-08	2.30E-09	0.00E+00	4.71E-08	1.34E-08	4.13E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
757	458089.6	3768358	4.502E-08	2.31E-09	0.00E+00	4.73E-08	4.50E-08	2.31E-09	0.00E+00	4.73E-08	1.35E-08	4.15E-10	0.00E+00	1.39E-08	5.11E-09	1.34E-10	0.00E+00	5.24E-09
758	458086.1	3768367	4.519E-08	2.32E-09	0.00E+00	4.75E-08	4.52E-08	2.32E-09	0.00E+00	4.75E-08	1.35E-08	4.17E-10	0.00E+00	1.40E-08	5.13E-09	1.34E-10	0.00E+00	5.26E-09
759	458082.6	3768375	4.527E-08	2.32E-09	0.00E+00	4.76E-08	4.53E-08	2.32E-09	0.00E+00	4.76E-08	1.36E-08	4.17E-10	0.00E+00	1.40E-08	5.14E-09	1.35E-10	0.00E+00	5.27E-09
760	458079	3768384	4.526E-08	2.32E-09	0.00E+00	4.76E-08	4.53E-08	2.32E-09	0.00E+00	4.76E-08	1.36E-08	4.17E-10	0.00E+00	1.40E-08	5.13E-09	1.35E-10	0.00E+00	5.27E-09
761	458075.5	3768393	4.516E-08	2.32E-09	0.00E+00	4.75E-08	4.52E-08	2.32E-09	0.00E+00	4.75E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.12E-09	1.34E-10	0.00E+00	5.26E-09
762	458050.8	3768454	4.223E-08	2.16E-09	0.00E+00	4.44E-08	4.22E-08	2.16E-09	0.00E+00	4.44E-08	1.26E-08	3.89E-10	0.00E+00	1.30E-08	4.79E-09	1.26E-10	0.00E+00	4.92E-09
763	458047.3	3768463	4.153E-08	2.13E-09	0.00E+00	4.37E-08	4.15E-08	2.13E-09	0.00E+00	4.37E-08	1.24E-08	3.83E-10	0.00E+00	1.28E-08	4.71E-09	1.24E-10	0.00E+00	4.83E-09
764	458043.8	3768471	4.076E-08	2.09E-09	0.00E+00	4.28E-08	4.08E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.75E-09
765	458040.2	3768480	3.993E-08	2.05E-09	0.00E+00	4.20E-08	3.99E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.68E-10	0.00E+00	1.23E-08	4.53E-09	1.19E-10	0.00E+00	4.65E-09
766	458036.7	3768489	3.907E-08	2.00E-09	0.00E+00	4.11E-08	3.91E-08	2.00E-09	0.00E+00	4.11E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.43E-09	1.16E-10	0.00E+00	4.55E-09
767	458033.2	3768498	3.816E-08	1.96E-09	0.00E+00	4.01E-08	3.82E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.44E-09
768	458029.7	3768506	3.722E-08	1.91E-09	0.00E+00	3.91E-08	3.72E-08	1.91E-09	0.00E+00	3.91E-08	1.11E-08	3.43E-10	0.00E+00	1.15E-08	4.22E-09	1.11E-10	0.00E+00	4.33E-09
769	458026.1	3768515	3.625E-08	1.86E-09	0.00E+00	3.81E-08	3.62E-08	1.86E-09	0.00E+00	3.81E-08	1.09E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
770	458022.6	3768524	3.525E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
771	458019.1	3768533	3.424E-08	1.76E-09	0.00E+00	3.60E-08	3.42E-08	1.76E-09	0.00E+00	3.60E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.88E-09	1.02E-10	0.00E+00	3.99E-09
772	458006.9	3768545	3.284E-08	1.68E-09	0.00E+00	3.45E-08	3.28E-08	1.68E-09	0.00E+00	3.45E-08	9.84E-09	3.03E-10	0.00E+00	1.01E-08	3.73E-09	9.77E-11	0.00E+00	3.82E-09
773	457998.2	3768549	3.242E-08	1.66E-09	0.00E+00	3.41E-08	3.24E-08	1.66E-09	0.00E+00	3.41E-08	9.71E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.65E-11	0.00E+00	3.77E-09
774	457989.5	3768552	3.196E-08	1.64E-09	0.00E+00	3.36E-08	3.20E-08	1.64E-09	0.00E+00	3.36E-08	9.57E-09	2.95E-10	0.00E+00	9.87E-09	3.63E-09	9.51E-11	0.00E+00	3.72E-09
775	457980.8	3768556	3.146E-08	1.61E-09	0.00E+00	3.31E-08	3.15E-08	1.61E-09	0.00E+00	3.31E-08	9.42E-09	2.90E-10	0.00E+00	9.71E-09	3.57E-09	9.36E-11	0.00E+00	3.66E-09
776	457972.1	3768559	3.093E-08	1.59E-09	0.00E+00	3.25E-08	3.09E-08	1.59E-09	0.00E+00	3.25E-08	9.26E-09	2.85E-10	0.00E+00	9.55E-09	3.51E-09	9.20E-11	0.00E+00	3.60E-09
777	457963.4	3768563	3.036E-08	1.56E-09	0.00E+00	3.19E-08	3.04E-08	1.56E-09	0.00E+00	3.19E-08	9.09E-09	2.80E-10	0.00E+00	9.37E-09	3.44E-09	9.03E-11	0.00E+00	3.53E-09
778	457954.7	3768567	2.976E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.19E-09	3.38E-09	8.86E-11	0.00E+00	3.47E-09
779	457946	3768570	2.913E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.73E-09	2.69E-10	0.00E+00	8.99E-09	3.31E-09	8.67E-11	0.00E+00	3.39E-09
780	457937.4	3768574	2.848E-08	1.46E-09	0.00E+00	2.99E-08	2.85E-08	1.46E-09	0.00E+00	2.99E-08	8.53E-09	2.63E-10	0.00E+00	8.79E-09	3.23E-09	8.48E-11	0.00E+00	3.32E-09
781	457928.7	3768578	2.781E-08	1.43E-09	0.00E+00	2.92E-08	2.78E-08	1.43E-09	0.00E+00	2.92E-08	8.33E-09	2.56E-10	0.00E+00	8.58E-09	3.15E-09	8.27E-11	0.00E+00	3.24E-09

782	457920	3768581	2.711E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.12E-09	2.50E-10	0.00E+00	8.37E-09	3.08E-09	8.07E-11	0.00E+00	3.16E-09
783	457911.3	3768585	2.64E-08	1.35E-09	0.00E+00	2.78E-08	2.64E-08	1.35E-09	0.00E+00	2.78E-08	7.91E-09	2.43E-10	0.00E+00	8.15E-09	2.99E-09	7.86E-11	0.00E+00	3.07E-09
784	457902.6	3768588	2.567E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.69E-09	2.37E-10	0.00E+00	7.93E-09	2.91E-09	7.64E-11	0.00E+00	2.99E-09
785	457893.9	3768592	2.494E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.47E-09	2.30E-10	0.00E+00	7.70E-09	2.83E-09	7.42E-11	0.00E+00	2.90E-09
786	457885.2	3768596	2.42E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.25E-09	2.23E-10	0.00E+00	7.47E-09	2.75E-09	7.20E-11	0.00E+00	2.82E-09
787	457876.5	3768599	2.345E-08	1.20E-09	0.00E+00	2.47E-08	2.34E-08	1.20E-09	0.00E+00	2.47E-08	7.02E-09	2.16E-10	0.00E+00	7.24E-09	2.66E-09	6.98E-11	0.00E+00	2.73E-09
788	457867.8	3768603	2.271E-08	1.16E-09	0.00E+00	2.39E-08	2.27E-08	1.16E-09	0.00E+00	2.39E-08	6.80E-09	2.09E-10	0.00E+00	7.01E-09	2.58E-09	6.76E-11	0.00E+00	2.64E-09
789	457859.2	3768607	2.198E-08	1.13E-09	0.00E+00	2.31E-08	2.20E-08	1.13E-09	0.00E+00	2.31E-08	6.58E-09	2.03E-10	0.00E+00	6.78E-09	2.49E-09	6.54E-11	0.00E+00	2.56E-09
790	457850.5	3768610	2.124E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.36E-09	1.96E-10	0.00E+00	6.56E-09	2.41E-09	6.32E-11	0.00E+00	2.47E-09
791	457841.8	3768614	2.049E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.14E-09	1.89E-10	0.00E+00	6.33E-09	2.33E-09	6.10E-11	0.00E+00	2.39E-09
792	457833.1	3768618	1.979E-08	1.01E-09	0.00E+00	2.08E-08	1.98E-08	1.01E-09	0.00E+00	2.08E-08	5.93E-09	1.82E-10	0.00E+00	6.11E-09	2.25E-09	5.89E-11	0.00E+00	2.30E-09
793	457824.4	3768621	1.912E-08	9.80E-10	0.00E+00	2.01E-08	1.91E-08	9.80E-10	0.00E+00	2.01E-08	5.73E-09	1.76E-10	0.00E+00	5.90E-09	2.17E-09	5.69E-11	0.00E+00	2.23E-09
794	457815.7	3768625	1.845E-08	9.46E-10	0.00E+00	1.94E-08	1.84E-08	9.46E-10	0.00E+00	1.94E-08	5.53E-09	1.70E-10	0.00E+00	5.70E-09	2.09E-09	5.49E-11	0.00E+00	2.15E-09
795	457807	3768628	1.777E-08	9.11E-10	0.00E+00	1.87E-08	1.78E-08	9.11E-10	0.00E+00	1.87E-08	5.32E-09	1.64E-10	0.00E+00	5.48E-09	2.02E-09	5.29E-11	0.00E+00	2.07E-09
796	457798.3	3768632	1.707E-08	8.75E-10	0.00E+00	1.79E-08	1.71E-08	8.75E-10	0.00E+00	1.79E-08	5.11E-09	1.57E-10	0.00E+00	5.27E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
797	458142.5	3768227	3.405E-08	1.75E-09	0.00E+00	3.58E-08	3.40E-08	1.75E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
798	458142.4	3768217	3.332E-08	1.71E-09	0.00E+00	3.50E-08	3.33E-08	1.71E-09	0.00E+00	3.50E-08	9.98E-09	3.07E-10	0.00E+00	1.03E-08	3.78E-09	9.92E-11	0.00E+00	3.88E-09
799	458142.3	3768208	3.257E-08	1.67E-09	0.00E+00	3.42E-08	3.26E-08	1.67E-09	0.00E+00	3.42E-08	9.76E-09	3.00E-10	0.00E+00	1.01E-08	3.70E-09	9.69E-11	0.00E+00	3.79E-09
800	458142.2	3768198	3.179E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.52E-09	2.93E-10	0.00E+00	9.81E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
801	458142.1	3768188	3.096E-08	1.59E-09	0.00E+00	3.25E-08	3.10E-08	1.59E-09	0.00E+00	3.25E-08	9.27E-09	2.85E-10	0.00E+00	9.56E-09	3.51E-09	9.21E-11	0.00E+00	3.60E-09
802	458142	3768179	3.011E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.02E-09	2.78E-10	0.00E+00	9.29E-09	3.42E-09	8.96E-11	0.00E+00	3.51E-09
803	458141.9	3768169	2.923E-08	1.50E-09	0.00E+00	3.07E-08	2.92E-08	1.50E-09	0.00E+00	3.07E-08	8.75E-09	2.69E-10	0.00E+00	9.02E-09	3.32E-09	8.70E-11	0.00E+00	3.40E-09
804	458141.7	3768159	2.833E-08	1.45E-09	0.00E+00	2.98E-08	2.83E-08	1.45E-09	0.00E+00	2.98E-08	8.48E-09	2.61E-10	0.00E+00	8.75E-09	3.21E-09	8.43E-11	0.00E+00	3.30E-09
805	458141.6	3768150	2.742E-08	1.41E-09	0.00E+00	2.88E-08	2.74E-08	1.41E-09	0.00E+00	2.88E-08	8.21E-09	2.53E-10	0.00E+00	8.46E-09	3.11E-09	8.16E-11	0.00E+00	3.19E-09
806	458141.5	3768140	2.65E-08	1.36E-09	0.00E+00	2.79E-08	2.65E-08	1.36E-09	0.00E+00	2.79E-08	7.94E-09	2.44E-10	0.00E+00	8.18E-09	3.01E-09	7.89E-11	0.00E+00	3.09E-09
807	458141.4	3768130	2.561E-08	1.31E-09	0.00E+00	2.69E-08	2.56E-08	1.31E-09	0.00E+00	2.69E-08	7.67E-09	2.36E-10	0.00E+00	7.91E-09	2.91E-09	7.62E-11	0.00E+00	2.98E-09
808	458141.3	3768121	2.474E-08	1.27E-09	0.00E+00	2.60E-08	2.47E-08	1.27E-09	0.00E+00	2.60E-08	7.41E-09	2.28E-10	0.00E+00	7.64E-09	2.81E-09	7.36E-11	0.00E+00	2.88E-09
809	458141.2	3768111	2.388E-08	1.22E-09	0.00E+00	2.51E-08	2.39E-08	1.22E-09	0.00E+00	2.51E-08	7.15E-09	2.20E-10	0.00E+00	7.37E-09	2.71E-09	7.10E-11	0.00E+00	2.78E-09
810	458141.1	3768102	2.37E-08	1.22E-09	0.00E+00	2.49E-08	2.37E-08	1.22E-09	0.00E+00	2.49E-08	7.10E-09	2.18E-10	0.00E+00	7.32E-09	2.69E-09	7.05E-11	0.00E+00	2.76E-09
811	458141	3768092	2.287E-08	1.17E-09	0.00E+00	2.40E-08	2.29E-08	1.17E-09	0.00E+00	2.40E-08	6.85E-09	2.11E-10	0.00E+00	7.06E-09	2.59E-09	6.80E-11	0.00E+00	2.66E-09
812	458140.8	3768082	2.204E-08	1.13E-09	0.00E+00	2.32E-08	2.20E-08	1.13E-09	0.00E+00	2.32E-08	6.60E-09	2.03E-10	0.00E+00	6.80E-09	2.50E-09	6.56E-11	0.00E+00	2.57E-09
813	458140.7	3768073	2.123E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.36E-09	1.96E-10	0.00E+00	6.55E-09	2.41E-09	6.32E-11	0.00E+00	2.47E-09
814	458140.6	3768063	2.042E-08	1.05E-09	0.00E+00	2.15E-08	2.04E-08	1.05E-09	0.00E+00	2.15E-08	6.12E-09	1.88E-10	0.00E+00	6.31E-09	2.32E-09	6.08E-11	0.00E+00	2.38E-09
815	458140.5	3768053	1.964E-08	1.01E-09	0.00E+00	2.06E-08	1.96E-08	1.01E-09	0.00E+00	2.06E-08	5.88E-09	1.81E-10	0.00E+00	6.06E-09	2.23E-09	5.84E-11	0.00E+00	2.29E-09
816	458140.4	3768044	1.888E-08	9.68E-10	0.00E+00	1.98E-08	1.89E-08	9.68E-10	0.00E+00	1.98E-08	5.65E-09	1.74E-10	0.00E+00	5.83E-09	2.14E-09	5.62E-11	0.00E+00	2.20E-09
817	458140.3	3768034	1.814E-08	9.30E-10	0.00E+00	1.91E-08	1.81E-08	9.30E-10	0.00E+00	1.91E-08	5.43E-09	1.67E-10	0.00E+00	5.60E-09	2.06E-09	5.40E-11	0.00E+00	2.11E-09
818	458140.2	3768024	1.743E-08	8.94E-10	0.00E+00	1.83E-08	1.74E-08	8.94E-10	0.00E+00	1.83E-08	5.22E-09	1.61E-10	0.00E+00	5.38E-09	1.98E-09	5.19E-11	0.00E+00	2.03E-09
819	458179	3768235	3.09E-08	1.58E-09	0.00E+00	3.25E-08	3.09E-08	1.58E-09	0.00E+00	3.25E-08	9.25E-09	2.85E-10	0.00E+00	9.54E-09	3.51E-09	9.19E-11	0.00E+00	3.60E-09
820	458175.4	3768244	3.179E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.52E-09	2.93E-10	0.00E+00	9.81E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
821	458171.9	3768253	3.266E-08	1.67E-09	0.00E+00	3.43E-08	3.27E-08	1.67E-09	0.00E+00	3.43E-08	9.78E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.72E-11	0.00E+00	3.80E-09
822	458168.3	3768262	3.352E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.97E-11	0.00E+00	3.90E-09
823	458164.8	3768270	3.435E-08	1.76E-09	0.00E+00	3.61E-08	3.43E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.00E-09
824	458161.2	3768279	3.515E-08	1.80E-09	0.00E+00	3.69E-08	3.51E-08	1.80E-09	0.00E+00	3.69E-08	1.05E-08	3.24E-10	0.00E+00	1.09E-08	3.99E-09	1.05E-10	0.00E+00	4.09E-09
825	458157.7	3768288	3.591E-08	1.84E-09	0.00E+00	3.78E-08	3.59E-08	1.84E-09	0.00E+00	3.78E-08	1.08E-08	3.31E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.18E-09
826	458154.1	3768297	3.665E-08	1.88E-09	0.00E+00	3.85E-08	3.67E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.16E-09	1.09E-10	0.00E+00	4.27E-09
827	458150.6	3768306	3.735E-08	1.91E-09	0.00E+00	3.93E-08	3.74E-08	1.91E-09	0.00E+00	3.93E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
828	458147	3768314	3.8E-08	1.95E-09	0.00E+00	4.00E-08	3.80E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
829	458143.5	3768323	3.859E-08	1.98E-09	0.00E+00	4.06E-08	3.86E-08	1.98E-09	0.00E+00	4.06E-08	1.16E-08	3.56E-10	0.00E+00	1.19E-08	4.38E-09	1.15E-10	0.00E+00	4.49E-09
830	458139.9	3768332	3.912E-08	2.01E-09	0.00E+00	4.11E-08	3.91E-08	2.01E-09	0.00E+00	4.11E-08	1.17E-08	3.61E-10	0.00E+00	1.21E-08	4.44E-09	1.16E-10	0.00E+00	4.56E-09
831	458136.4	3768341	3.959E-08	2.03E-09	0.00E+00	4.16E-08	3.96E-08	2.03E-09	0.00E+00	4.16E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.61E-09
832	458132.8	3768350	4E-08	2.05E-09	0.00E+00	4.20E-08	4.00E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.69E-10	0.00E+00	1.23E-08	4.54E-09	1.19E-10	0.00E+00	4.66E-09
833	458129.3	3768358	4.033E-08	2.07E-09	0.00E+00	4.24E-08	4.03E-08	2.07E-09	0.00E+00	4.24E-08	1.21E-08	3.72E-10	0.00E+00	1.25E-08	4.58E-09	1.20E-10	0.00E+00	4.70E-09
834	458090.2	3768455	3.943E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
835	458086.6	3768464	3.895E-08	2.00E-09	0.00E+00	4.09E-08	3.89E-08	2.00E-09	0.00E+00	4.09E-08	1.17E-08	3.59E-10	0.00E+00	1.20E-08	4.42E-09	1.16E-10	0.00E+00	4.53E-09
836	458083.1	3768473	3.84E-08	1.97E-09	0.00E+00	4.04E-08	3.84E-08	1.97E-09	0.00E+00	4.04E-08	1.15E-08	3.54E-10	0.00E+00	1.19E-08	4.36E-09	1.14E-10	0.00E+00	4.47E-09
837	458079.5	3768481	3.779E-08	1.94E-09	0.00E+00	3.97E-08	3.78E-08	1.94E-09	0.00E+00	3.97E-08	1.13E-08	3.48E-10	0.00E+00	1.17E-08	4.29E-09	1.12E-10	0.00E+00	4.40E-09
838	458076	3768490	3.714E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.11E-10	0.00E+00	4.32E-09
839	458072.4	3768499	3.645E-08	1.87E-09	0.00E+00	3.83E-08	3.64E-08	1.87E-09	0.00E+00	3.83E-08	1.09E-08	3.36E-10	0.00E+00	1.13E-08	4.13E-09	1.08E-10	0.00E+00	4.24E-09
840	458068.9	3768508	3.571E-08	1.83E-09	0.00E+00	3.75E-08	3.57E-08	1.83E-09	0.00E+00	3.75E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.05E-09	1.06E-10	0.00E+00	4.16E-09
841	458065.3	3768517	3.494E-08	1.79E-09	0.00E+00	3.67E-08	3.49E-08	1.79E-09	0.00E+00	3.67E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.96E-09	1.04E-10	0.00E+00	4.07E-09
842	458061.8	3768525	3.413E-08	1.75E-09	0.00E+00	3.59E-08	3.41E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.05E-08	3.87E-09	1.02E-10	0.00E+00	3.97E-09
843	458058.2	3768534	3.331E-08	1.71E-09	0.00E+00	3.50E-08	3.33E-08	1.71E-09	0.00E+00	3.50E-08	9.98E-09	3.07E-10	0.00E+00	1.03E-08	3.78E-09	9.91E-11	0.00E+00	3.88E-09
844	458054.7	3768543	3.245E-08	1.66E-09	0.00E+00	3.41E-08	3.25E-08	1.66E-09	0.00E+00	3.41E-08	9.72E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.66E-11	0.00E+00	3.78E-09
845	458051.1	3768552	3.157E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.46E-09	2.91E-10	0.00E+00	9.75E-09	3.58E-09	9.39E-11	0.00E+00	3.68E-09
846	458047.6	3768561	3.068E-08	1.57E-09	0.00E+00	3.23E-08	3.07E-08	1.57E-09	0.00E+00	3.23E-08	9.19E-09	2.83E-10	0.00E+00	9.47E-09	3.48E-09	9.13E-11	0.00E+00	3.57E-09
847	458035.3	3768573	2.944E-08	1.51E-09	0.00E+00	3.10E-08	2.94E-08	1.51E-09	0.00E+00	3.10E-08	8.82E-09	2.71E-10	0.00E+00	9.09E-09	3.34E-09	8.76E-11	0.00E+00	3.43E-09
848	458026.5	3768577	2.906E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.70E-09	2.68E-10	0.00E+00	8.97E-09	3.30E-09	8.65E-11	0.00E+00	3.38E-09
849	458017.8	3768580	2.864E-08	1.47E-09	0.00E+00	3.01E-08	2.86E-08	1.47E-09	0.00E+00	3.01E-08	8.58E-09	2.64E-10	0.00E+00	8.84E-09	3.25E-09	8.52E-11	0.00E+00	3.34E-09
850	458009	3768584	2.819E-08	1.45E-09	0.00E+00	2.96E-08	2.82E-08	1.45E-09	0.00E+00	2.96E-08	8.44E-09	2.60E-10	0.00E+00	8.70E-09	3.20E-09	8.39E-11	0.00E+00	3.28E-09
851	458000.3	3768588	2.77E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.30E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.23E-09
852	457991.5	3768591	2.72E-08	1.39E-09	0.00E+00	2.86E-08	2.72E-08	1.39E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.09E-11	0.00E+00	3.17E-09
853	457982.8	3768595	2.668E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	7.99E-09	2.46E-10	0.00E+00	8.24E-09	3.03E-09	7.94E-11	0.00E+00	3.11E-09
854	457974	3768599	2.615E-08	1.34E-09	0.00E+00	2.75E-08	2.61E-08	1.34E-09	0.00E+00	2.75E-08	7.83E-09	2.41E-10	0.00E+00	8.07E-09	2.97E-09	7.78E-11	0.00E+00	3.04E-09
855	457965.3	3768602	2.558E-08	1.31E-09	0.00E+00	2.69E-08	2.56E-08	1.31E-09	0.00E+00	2.69E-08	7.66E-09	2.36E-10	0.00E+00	7.90E-09	2.90E-09	7.61E-11	0.00E+00	2.98E-09
856	457956.5	3768606	2.499E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.49E-09	2.30E-10	0.00E+00	7.72E-09	2.84E-09	7.44E-11	0.00E+00	2.91E-09
857	457947.8	3768610	2.44E-08	1.25E-09	0.00E+00	2.57E-08	2.44E-08	1.25E-09	0.00E+00	2.57E-08	7.31E-09	2.25E-10	0.00E+00	7.53E-09	2.77E-09	7.26E-11	0.00E+00	2.84E-09
858	457939	3768613	2.38E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.19E-10	0.00E+00	7.35E-09	2.70E-09	7.08E-11	0.00E+00	2.77E-09
859	457930.3	3768617	2.321E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.95E-09	2.14E-10	0.00E+00	7.16E-09	2.63E-09	6.91E-11	0.00E+00	2.70E-09
860	457921.5	3768621	2.256E-08	1.16E-09	0.00E+00	2.37E-08	2.26E-08	1.16E-09	0.00E+00	2.37E-08	6.76E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.71E-11	0.00E+00	2.63E-09
861	457912.8	3768624	2.191E-08	1.12E-09	0.00E+00	2.30E-08	2.19E-08	1.12E-09	0.00E+00	2.30E-08	6.56E-09	2.02E-10	0.00E+00	6.76E-09	2.49E-09	6.52E-11	0.00E+00	2.55E-09
862	457904	3768628	2.127E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.37E-09	1.96E-10	0.00E+00	6.57E-09	2.41E-09	6.33E-11	0.00E+00	2.48E-09
863	457895.3	3768632	2.063E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.18E-09	1.90E-10	0.00E+00	6.37E-09	2.34E-09	6.14E-11	0.00E+00	2.40E-09
864	458182.5	3768226	2.999E-08	1.54E-09	0.00E+00	3.15E-08	3.00E-08	1.54E-09	0.00E+00	3.15E-08	8.98E-09	2.76E-10	0.00E+00	9.26E-09	3.40E-09	8.92E-11	0.00E+00	3.49E-09
865	458182.4	3768217	2.936E-08	1.51E-09	0.00E+00	3.09E-08	2.94E-08	1.51E-09	0.00E+00	3.09E-08	8.79E-09	2.71E-10	0.00E+00	9.06E-09	3.33E-09	8.74E-11	0.00E+00	3.42E-09
866	458182.3	3768207	2.87E-08	1.47E-09	0.00E+00	3.02E-08	2.87E-08	1.47E-09	0.00E+00	3.02E-08	8.60E-09	2.65E-10	0.00E+00	8.86E-09	3.26E-09	8.54E-11	0.00E+00	3.34E-09
867	458182.2	3768197	2.802E-08	1.44E-09	0.00E+00	2.95E-08	2.80E-08	1.44E-09	0.00E+00	2.95E-08	8.39E-09	2.58E-10	0.00E+00	8.65E-09	3.18E-09	8.34E-11	0.00E+00	3.26E-09
868	458182.1	3768188	2.731E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.18E-09	2.52E-10	0.00E+00	8.43E-09	3.10E-09	8.13E-11	0.00E+00	3.18E-09
869	458182	3768178	2.658E-08	1.36E-09	0.00E+00	2.79E-08	2.66E-08	1.36E-09	0.00E+00	2.79E-08	7.96E-09	2.45E-10	0.00E+00	8.21E-09	3.02E-09	7.91E-11	0.00E+00	3.09E-09
870	458181.8	3768169	2.583E-08	1.32E-09	0.00E+00	2.72E-08	2.58E-08	1.32E-09	0.00E+00	2.72E-08	7.74E-09	2.38E-10	0.00E+00	7.97E-09	2.93E-09	7.69E-11	0.00E+00	3.01E-09
871	458181.7	3768159	2.507E-08	1.29E-09	0.00E+00	2.64E-08	2.51E-08	1.29E-09	0.00E+00	2.64E-08	7.51E-09	2.31E-10	0.00E+00	7.74E-09	2.84E-09	7.46E-11	0.00E+00	2.92E-09
872	458181.6	3768149	2.43E-08	1.25E-09	0.00E+00	2.55E-08	2.43E-08	1.25E-09	0.00E+00	2.55E-08	7.28E-09	2.24E-10	0.00E+00	7.50E-09	2.76E-09	7.23E-11	0.00E+00	2.83E-09
873	458181.5	3768140	2.352E-08	1.21E-09	0.00E+00	2.47E-08	2.35E-08	1.21E-09	0.00E+00	2.47E-08	7.05E-09	2.17E-10	0.00E+00	7.26E-09	2.67E-09	7.00E-11	0.00E+00	2.74E-09
874	458181.4	3768130	2.277E-08	1.17E-09	0.00E+00	2.39E-08	2.28E-08	1.17E-09	0.00E+00	2.39E-08	6.82E-09	2.10E-10	0.00E+00	7.03E-09	2.58E-09	6.78E-11	0.00E+00	2.65E-09
875	458181.3	3768120	2.204E-08	1.13E-09	0.00E+00	2.32E-08	2.20E-08	1.13E-09	0.00E+00	2.32E-08	6.60E-09	2.03E-10	0.00E+00	6.80E-09	2.50E-09	6.56E-11	0.00E+00	2.57E-09
876	458181.2	3768111	2.132E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.39E-09	1.97E-10	0.00E+00	6.58E-09	2.42E-09	6.34E-11	0.00E+00	2.48E-09
877	458181.1	3768101	2.12E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.35E-09	1.95E-10	0.00E+00	6.54E-09	2.40E-09	6.31E-11	0.00E+00	2.47E-09
878	458180.9	3768091	2.049E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.14E-09	1.89E-10	0.00E+00	6.33E-09	2.33E-09	6.10E-11	0.00E+00	2.39E-09
879	458180.8	3768082	1.98E-08	1.01E-09	0.00E+00	2.08E-08	1.98E-08	1.01E-09	0.00E+00	2.08E-08	5.93E-09	1.82E-10	0.00E+00	6.11E-09	2.25E-09	5.89E-11	0.00E+00	2.30E-09
880	458180.7	3768072	1.911E-08	9.80E-10	0.00E+00	2.01E-08	1.91E-08	9.80E-10	0.00E+00	2.01E-08	5.72E-09	1.76E-10	0.00E+00	5.90E-09	2.17E-09	5.69E-11	0.00E+00	2.22E-09
881	458180.6	3768063	1.843E-08	9.45E-10	0.00E+00	1.94E-08	1.84E-08	9.45E-10	0.00E+00	1.94E-08	5.52E-09	1.70E-10	0.00E+00	5.69E-09	2.09E-09	5.48E-11	0.00E+00	2.15E-09
882	458180.5	3768053	1.777E-08	9.11E-10	0.00E+00	1.87E-08	1.78E-08	9.11E-10	0.00E+00	1.87E-08	5.32E-09	1.64E-10	0.00E+00	5.49E-09	2.02E-09	5.29E-11	0.00E+00	2.07E-09
883	458180.4	3768043	1.712E-08	8.78E-10	0.00E+00	1.80E-08	1.71E-08	8.78E-10	0.00E+00	1.80E-08	5.13E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
884	458180.3	3768034	1.648E-08	8.45E-10	0.00E+00	1.73E-08	1.65E-08	8.45E-10	0.00E+00	1.73E-08	4.94E-09	1.52E-10	0.00E+00	5.09E-09	1.87E-09	4.91E-11	0.00E+00	1.92E-09
885	458180.2	3768024	1.587E-08	8.14E-10	0.00E+00	1.67E-08	1.59E-08	8.14E-10	0.00E+00	1.67E-08	4.75E-09	1.46E-10	0.00E+00	4.90E-09	1.80E-09	4.72E-11	0.00E+00	1.85E-09
886	458218.9	3768235	2.742E-08	1.41E-09	0.00E+00	2.88E-08	2.74E-08	1.41E-09	0.00E+00	2.88E-08	8.21E-09	2.53E-10	0.00E+00	8.47E-09	3.11E-09	8.16E-11	0.00E+00	3.19E-09
887	458215.4	3768244	2.82E-08	1.45E-09	0.00E+00	2.96E-08	2.82E-08	1.45E-09	0.00E+00	2.96E-08	8.45E-09	2.60E-10	0.00E+00	8.71E-09	3.20E-09	8.39E-11	0.00E+00	3.28E-09
888	458211.8	3768252	2.898E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.68E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.62E-11	0.00E+00	3.37E-09
889	458208.2	3768261	2.974E-08	1.52E-09	0.00E+00	3.13E-08	2.97E-08	1.52E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.18E-09	3.37E-09	8.85E-11	0.00E+00	3.46E-09
890	458204.7	3768270	3.048E-08	1.56E-09	0.00E+00	3.20E-08	3.05E-08	1.56E-09	0.00E+00	3.20E-08	9.13E-09	2.81E-10	0.00E+00	9.41E-09	3.46E-09	9.07E-11	0.00E+00	3.55E-09
891	458201.1	3768279	3.121E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.35E-09	2.88E-10	0.00E+00	9.64E-09	3.54E-09	9.29E-11	0.00E+00	3.63E-09
892	458197.5	3768288	3.191E-08	1.64E-09	0.00E+00	3.36E-08	3.19E-08	1.64E-09	0.00E+00	3.36E-08	9.56E-09	2.94E-10	0.00E+00	9.85E-09	3.62E-09	9.50E-11	0.00E+00	3.72E-09
893	458193.9	3768297	3.259E-08	1.67E-09	0.00E+00	3.43E-08	3.26E-08	1.67E-09	0.00E+00	3.43E-08	9.76E-09	3.00E-10	0.00E+00	1.01E-08	3.70E-09	9.70E-11	0.00E+00	3.79E-09

894	458190.4	3768306	3.323E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.95E-09	3.06E-10	0.00E+00	1.03E-08	3.77E-09	9.89E-11	0.00E+00	3.87E-09
895	458186.8	3768314	3.384E-08	1.73E-09	0.00E+00	3.56E-08	3.38E-08	1.73E-09	0.00E+00	3.56E-08	1.01E-08	3.12E-10	0.00E+00	1.04E-08	3.84E-09	1.01E-10	0.00E+00	3.94E-09
896	458183.2	3768323	3.441E-08	1.76E-09	0.00E+00	3.62E-08	3.44E-08	1.76E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.01E-09
897	458179.6	3768332	3.494E-08	1.79E-09	0.00E+00	3.67E-08	3.49E-08	1.79E-09	0.00E+00	3.67E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.96E-09	1.04E-10	0.00E+00	4.07E-09
898	458176.1	3768341	3.542E-08	1.82E-09	0.00E+00	3.72E-08	3.54E-08	1.82E-09	0.00E+00	3.72E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.02E-09	1.05E-10	0.00E+00	4.12E-09
899	458172.5	3768350	3.585E-08	1.84E-09	0.00E+00	3.77E-08	3.58E-08	1.84E-09	0.00E+00	3.77E-08	1.07E-08	3.30E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.17E-09
900	458168.9	3768359	3.622E-08	1.86E-09	0.00E+00	3.81E-08	3.62E-08	1.86E-09	0.00E+00	3.81E-08	1.08E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
901	458165.4	3768367	3.655E-08	1.87E-09	0.00E+00	3.84E-08	3.65E-08	1.87E-09	0.00E+00	3.84E-08	1.09E-08	3.37E-10	0.00E+00	1.13E-08	4.15E-09	1.09E-10	0.00E+00	4.26E-09
902	458161.8	3768376	3.682E-08	1.89E-09	0.00E+00	3.87E-08	3.68E-08	1.89E-09	0.00E+00	3.87E-08	1.10E-08	3.39E-10	0.00E+00	1.14E-08	4.18E-09	1.10E-10	0.00E+00	4.29E-09
903	458158.2	3768385	3.706E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
904	458154.6	3768394	3.723E-08	1.91E-09	0.00E+00	3.91E-08	3.72E-08	1.91E-09	0.00E+00	3.91E-08	1.12E-08	3.43E-10	0.00E+00	1.15E-08	4.22E-09	1.11E-10	0.00E+00	4.33E-09
905	458151.1	3768403	3.735E-08	1.91E-09	0.00E+00	3.93E-08	3.73E-08	1.91E-09	0.00E+00	3.93E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
906	458147.5	3768412	3.739E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
907	458143.9	3768421	3.736E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
908	458093.9	3768544	3.145E-08	1.61E-09	0.00E+00	3.31E-08	3.14E-08	1.61E-09	0.00E+00	3.31E-08	9.42E-09	2.90E-10	0.00E+00	9.71E-09	3.57E-09	9.36E-11	0.00E+00	3.66E-09
909	458090.3	3768553	3.073E-08	1.58E-09	0.00E+00	3.23E-08	3.07E-08	1.58E-09	0.00E+00	3.23E-08	9.20E-09	2.83E-10	0.00E+00	9.49E-09	3.49E-09	9.14E-11	0.00E+00	3.58E-09
910	458086.8	3768562	2.999E-08	1.54E-09	0.00E+00	3.15E-08	3.00E-08	1.54E-09	0.00E+00	3.15E-08	8.98E-09	2.76E-10	0.00E+00	9.26E-09	3.40E-09	8.92E-11	0.00E+00	3.49E-09
911	458083.2	3768571	2.924E-08	1.50E-09	0.00E+00	3.07E-08	2.92E-08	1.50E-09	0.00E+00	3.07E-08	8.76E-09	2.70E-10	0.00E+00	9.03E-09	3.32E-09	8.70E-11	0.00E+00	3.40E-09
912	458079.6	3768580	2.847E-08	1.46E-09	0.00E+00	2.99E-08	2.85E-08	1.46E-09	0.00E+00	2.99E-08	8.53E-09	2.62E-10	0.00E+00	8.79E-09	3.23E-09	8.47E-11	0.00E+00	3.31E-09
913	458076	3768589	2.769E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.29E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.22E-09
914	458063.7	3768601	2.659E-08	1.36E-09	0.00E+00	2.79E-08	2.66E-08	1.36E-09	0.00E+00	2.79E-08	7.96E-09	2.45E-10	0.00E+00	8.21E-09	3.02E-09	7.91E-11	0.00E+00	3.10E-09
915	458054.9	3768605	2.624E-08	1.35E-09	0.00E+00	2.76E-08	2.62E-08	1.35E-09	0.00E+00	2.76E-08	7.86E-09	2.42E-10	0.00E+00	8.10E-09	2.98E-09	7.81E-11	0.00E+00	3.06E-09
916	458046.1	3768609	2.587E-08	1.33E-09	0.00E+00	2.72E-08	2.59E-08	1.33E-09	0.00E+00	2.72E-08	7.75E-09	2.38E-10	0.00E+00	7.99E-09	2.94E-09	7.70E-11	0.00E+00	3.01E-09
917	458037.3	3768612	2.547E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.63E-09	2.35E-10	0.00E+00	7.86E-09	2.89E-09	7.58E-11	0.00E+00	2.97E-09
918	458028.5	3768616	2.505E-08	1.28E-09	0.00E+00	2.63E-08	2.51E-08	1.28E-09	0.00E+00	2.63E-08	7.50E-09	2.31E-10	0.00E+00	7.73E-09	2.84E-09	7.45E-11	0.00E+00	2.92E-09
919	458019.7	3768620	2.461E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.37E-09	2.27E-10	0.00E+00	7.60E-09	2.79E-09	7.32E-11	0.00E+00	2.86E-09
920	458010.9	3768623	2.414E-08	1.24E-09	0.00E+00	2.54E-08	2.41E-08	1.24E-09	0.00E+00	2.54E-08	7.23E-09	2.23E-10	0.00E+00	7.45E-09	2.74E-09	7.18E-11	0.00E+00	2.81E-09
921	458002.1	3768627	2.365E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.08E-09	2.18E-10	0.00E+00	7.30E-09	2.68E-09	7.04E-11	0.00E+00	2.75E-09
922	457993.3	3768631	2.315E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.93E-09	2.13E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
923	457984.5	3768634	2.263E-08	1.16E-09	0.00E+00	2.38E-08	2.26E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.73E-11	0.00E+00	2.63E-09
924	458222.5	3768226	2.663E-08	1.37E-09	0.00E+00	2.80E-08	2.66E-08	1.37E-09	0.00E+00	2.80E-08	7.98E-09	2.45E-10	0.00E+00	8.22E-09	3.02E-09	7.92E-11	0.00E+00	3.10E-09
925	458222.4	3768216	2.606E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.76E-11	0.00E+00	3.03E-09
926	458222.3	3768207	2.548E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.63E-09	2.35E-10	0.00E+00	7.86E-09	2.89E-09	7.58E-11	0.00E+00	2.97E-09
927	458222.2	3768197	2.487E-08	1.28E-09	0.00E+00	2.61E-08	2.49E-08	1.28E-09	0.00E+00	2.61E-08	7.45E-09	2.29E-10	0.00E+00	7.68E-09	2.82E-09	7.40E-11	0.00E+00	2.90E-09
928	458222.1	3768187	2.426E-08	1.24E-09	0.00E+00	2.55E-08	2.43E-08	1.24E-09	0.00E+00	2.55E-08	7.27E-09	2.24E-10	0.00E+00	7.49E-09	2.75E-09	7.22E-11	0.00E+00	2.82E-09
929	458222	3768178	2.365E-08	1.21E-09	0.00E+00	2.49E-08	2.36E-08	1.21E-09	0.00E+00	2.49E-08	7.08E-09	2.18E-10	0.00E+00	7.30E-09	2.68E-09	7.04E-11	0.00E+00	2.75E-09
930	458221.8	3768168	2.302E-08	1.18E-09	0.00E+00	2.42E-08	2.30E-08	1.18E-09	0.00E+00	2.42E-08	6.89E-09	2.12E-10	0.00E+00	7.11E-09	2.61E-09	6.85E-11	0.00E+00	2.68E-09
931	458221.7	3768158	2.237E-08	1.15E-09	0.00E+00	2.35E-08	2.24E-08	1.15E-09	0.00E+00	2.35E-08	6.70E-09	2.06E-10	0.00E+00	6.91E-09	2.54E-09	6.66E-11	0.00E+00	2.60E-09
932	458221.6	3768149	2.171E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.50E-09	2.00E-10	0.00E+00	6.70E-09	2.46E-09	6.46E-11	0.00E+00	2.53E-09
933	458221.5	3768139	2.105E-08	1.08E-09	0.00E+00	2.21E-08	2.11E-08	1.08E-09	0.00E+00	2.21E-08	6.31E-09	1.94E-10	0.00E+00	6.50E-09	2.39E-09	6.26E-11	0.00E+00	2.45E-09
934	458221.4	3768130	2.04E-08	1.05E-09	0.00E+00	2.14E-08	2.04E-08	1.05E-09	0.00E+00	2.14E-08	6.11E-09	1.88E-10	0.00E+00	6.30E-09	2.31E-09	6.07E-11	0.00E+00	2.37E-09
935	458221.3	3768120	1.975E-08	1.01E-09	0.00E+00	2.08E-08	1.97E-08	1.01E-09	0.00E+00	2.08E-08	5.91E-09	1.82E-10	0.00E+00	6.10E-09	2.24E-09	5.88E-11	0.00E+00	2.30E-09
936	458221.2	3768110	1.91E-08	9.79E-10	0.00E+00	2.01E-08	1.91E-08	9.79E-10	0.00E+00	2.01E-08	5.72E-09	1.76E-10	0.00E+00	5.90E-09	2.17E-09	5.68E-11	0.00E+00	2.22E-09
937	458221.1	3768101	1.848E-08	9.47E-10	0.00E+00	1.94E-08	1.85E-08	9.47E-10	0.00E+00	1.94E-08	5.53E-09	1.70E-10	0.00E+00	5.70E-09	2.10E-09	5.50E-11	0.00E+00	2.15E-09
938	458220.9	3768091	1.787E-08	9.16E-10	0.00E+00	1.88E-08	1.79E-08	9.16E-10	0.00E+00	1.88E-08	5.35E-09	1.65E-10	0.00E+00	5.52E-09	2.03E-09	5.32E-11	0.00E+00	2.08E-09
939	458220.8	3768081	1.727E-08	8.85E-10	0.00E+00	1.82E-08	1.73E-08	8.85E-10	0.00E+00	1.82E-08	5.17E-09	1.59E-10	0.00E+00	5.33E-09	1.96E-09	5.14E-11	0.00E+00	2.01E-09
940	458220.7	3768072	1.731E-08	8.88E-10	0.00E+00	1.82E-08	1.73E-08	8.88E-10	0.00E+00	1.82E-08	5.19E-09	1.60E-10	0.00E+00	5.35E-09	1.96E-09	5.15E-11	0.00E+00	2.02E-09
941	458220.6	3768062	1.674E-08	8.58E-10	0.00E+00	1.76E-08	1.67E-08	8.58E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.17E-09	1.90E-09	4.98E-11	0.00E+00	1.95E-09
942	458220.5	3768052	1.617E-08	8.29E-10	0.00E+00	1.70E-08	1.62E-08	8.29E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
943	458220.4	3768043	1.561E-08	8.00E-10	0.00E+00	1.64E-08	1.56E-08	8.00E-10	0.00E+00	1.64E-08	4.68E-09	1.44E-10	0.00E+00	4.82E-09	1.77E-09	4.64E-11	0.00E+00	1.82E-09
944	458220.3	3768033	1.507E-08	7.72E-10	0.00E+00	1.58E-08	1.51E-08	7.72E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
945	458220.2	3768024	1.454E-08	7.45E-10	0.00E+00	1.53E-08	1.45E-08	7.45E-10	0.00E+00	1.53E-08	4.35E-09	1.34E-10	0.00E+00	4.49E-09	1.65E-09	4.33E-11	0.00E+00	1.69E-09
946	458258.9	3768234	2.451E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.34E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.29E-11	0.00E+00	2.85E-09
947	458255.3	3768243	2.52E-08	1.29E-09	0.00E+00	2.65E-08	2.52E-08	1.29E-09	0.00E+00	2.65E-08	7.55E-09	2.32E-10	0.00E+00	7.78E-09	2.86E-09	7.50E-11	0.00E+00	2.93E-09
948	458251.7	3768252	2.588E-08	1.33E-09	0.00E+00	2.72E-08	2.59E-08	1.33E-09	0.00E+00	2.72E-08	7.75E-09	2.39E-10	0.00E+00	7.99E-09	2.94E-09	7.70E-11	0.00E+00	3.01E-09
949	458248.2	3768261	2.656E-08	1.36E-09	0.00E+00	2.79E-08	2.66E-08	1.36E-09	0.00E+00	2.79E-08	7.95E-09	2.45E-10	0.00E+00	8.20E-09	3.01E-09	7.90E-11	0.00E+00	3.09E-09
950	458244.6	3768270	2.722E-08	1.40E-09	0.00E+00	2.86E-08	2.72E-08	1.40E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.10E-11	0.00E+00	3.17E-09
951	458241	3768279	2.787E-08	1.43E-09	0.00E+00	2.93E-08	2.79E-08	1.43E-09	0.00E+00	2.93E-08	8.35E-09	2.57E-10	0.00E+00	8.61E-09	3.16E-09	8.29E-11	0.00E+00	3.25E-09
952	458237.4	3768288	2.851E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.54E-09	2.63E-10	0.00E+00	8.80E-09	3.23E-09	8.48E-11	0.00E+00	3.32E-09
953	458233.8	3768297	2.913E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.72E-09	2.69E-10	0.00E+00	8.99E-09	3.30E-09	8.67E-11	0.00E+00	3.39E-09
954	458230.2	3768305	2.972E-08	1.52E-09	0.00E+00	3.12E-08	2.97E-08	1.52E-09	0.00E+00	3.12E-08	8.90E-09	2.74E-10	0.00E+00	9.18E-09	3.37E-09	8.84E-11	0.00E+00	3.46E-09
955	458226.6	3768314	3.029E-08	1.55E-09	0.00E+00	3.18E-08	3.03E-08	1.55E-09	0.00E+00	3.18E-08	9.07E-09	2.79E-10	0.00E+00	9.35E-09	3.44E-09	9.01E-11	0.00E+00	3.53E-09
956	458223	3768323	3.083E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.23E-09	2.84E-10	0.00E+00	9.52E-09	3.50E-09	9.17E-11	0.00E+00	3.59E-09
957	458219.4	3768332	3.133E-08	1.61E-09	0.00E+00	3.29E-08	3.13E-08	1.61E-09	0.00E+00	3.29E-08	9.38E-09	2.89E-10	0.00E+00	9.67E-09	3.55E-09	9.32E-11	0.00E+00	3.65E-09
958	458215.8	3768341	3.18E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.53E-09	2.93E-10	0.00E+00	9.82E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
959	458212.2	3768350	3.225E-08	1.65E-09	0.00E+00	3.39E-08	3.22E-08	1.65E-09	0.00E+00	3.39E-08	9.66E-09	2.97E-10	0.00E+00	9.96E-09	3.66E-09	9.60E-11	0.00E+00	3.75E-09
960	458208.7	3768359	3.266E-08	1.67E-09	0.00E+00	3.43E-08	3.27E-08	1.67E-09	0.00E+00	3.43E-08	9.78E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.72E-11	0.00E+00	3.80E-09
961	458205.1	3768368	3.303E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.89E-09	3.04E-10	0.00E+00	1.02E-08	3.75E-09	9.83E-11	0.00E+00	3.85E-09
962	458201.5	3768377	3.335E-08	1.71E-09	0.00E+00	3.51E-08	3.34E-08	1.71E-09	0.00E+00	3.51E-08	9.99E-09	3.07E-10	0.00E+00	1.03E-08	3.78E-09	9.92E-11	0.00E+00	3.88E-09
963	458197.9	3768386	3.362E-08	1.72E-09	0.00E+00	3.53E-08	3.36E-08	1.72E-09	0.00E+00	3.53E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.81E-09	1.00E-10	0.00E+00	3.91E-09
964	458194.3	3768394	3.384E-08	1.73E-09	0.00E+00	3.56E-08	3.38E-08	1.73E-09	0.00E+00	3.56E-08	1.01E-08	3.12E-10	0.00E+00	1.04E-08	3.84E-09	1.01E-10	0.00E+00	3.94E-09
965	458190.7	3768403	3.401E-08	1.74E-09	0.00E+00	3.58E-08	3.40E-08	1.74E-09	0.00E+00	3.58E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
966	458187.1	3768412	3.413E-08	1.75E-09	0.00E+00	3.59E-08	3.41E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.05E-08	3.87E-09	1.02E-10	0.00E+00	3.97E-09
967	458092.1	3768629	2.412E-08	1.24E-09	0.00E+00	2.54E-08	2.41E-08	1.24E-09	0.00E+00	2.54E-08	7.23E-09	2.22E-10	0.00E+00	7.45E-09	2.74E-09	7.18E-11	0.00E+00	2.81E-09
968	458083.2	3768633	2.381E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.20E-10	0.00E+00	7.35E-09	2.70E-09	7.09E-11	0.00E+00	2.77E-09
969	458262.5	3768225	2.382E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.20E-10	0.00E+00	7.35E-09	2.70E-09	7.09E-11	0.00E+00	2.77E-09
970	458262.4	3768216	2.332E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.98E-09	2.15E-10	0.00E+00	7.20E-09	2.65E-09	6.94E-11	0.00E+00	2.71E-09
971	458262.3	3768206	2.28E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.83E-09	2.10E-10	0.00E+00	7.04E-09	2.59E-09	6.78E-11	0.00E+00	2.65E-09
972	458262.2	3768197	2.226E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.67E-09	2.05E-10	0.00E+00	6.87E-09	2.53E-09	6.62E-11	0.00E+00	2.59E-09
973	458262.1	3768187	2.173E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.51E-09	2.00E-10	0.00E+00	6.71E-09	2.47E-09	6.47E-11	0.00E+00	2.53E-09
974	458262	3768177	2.12E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.35E-09	1.95E-10	0.00E+00	6.55E-09	2.41E-09	6.31E-11	0.00E+00	2.47E-09
975	458261.8	3768168	2.067E-08	1.06E-09	0.00E+00	2.17E-08	2.07E-08	1.06E-09	0.00E+00	2.17E-08	6.19E-09	1.91E-10	0.00E+00	6.38E-09	2.34E-09	6.15E-11	0.00E+00	2.41E-09
976	458261.7	3768158	2.011E-08	1.03E-09	0.00E+00	2.11E-08	2.01E-08	1.03E-09	0.00E+00	2.11E-08	6.02E-09	1.85E-10	0.00E+00	6.21E-09	2.28E-09	5.98E-11	0.00E+00	2.34E-09
977	458261.6	3768148	1.954E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.85E-09	1.80E-10	0.00E+00	6.03E-09	2.22E-09	5.81E-11	0.00E+00	2.28E-09
978	458261.5	3768139	1.897E-08	9.73E-10	0.00E+00	1.99E-08	1.90E-08	9.73E-10	0.00E+00	1.99E-08	5.68E-09	1.75E-10	0.00E+00	5.86E-09	2.15E-09	5.65E-11	0.00E+00	2.21E-09
979	458261.4	3768129	1.84E-08	9.43E-10	0.00E+00	1.93E-08	1.84E-08	9.43E-10	0.00E+00	1.93E-08	5.51E-09	1.70E-10	0.00E+00	5.68E-09	2.09E-09	5.48E-11	0.00E+00	2.14E-09
980	458261.3	3768119	1.784E-08	9.14E-10	0.00E+00	1.88E-08	1.78E-08	9.14E-10	0.00E+00	1.88E-08	5.34E-09	1.64E-10	0.00E+00	5.51E-09	2.02E-09	5.31E-11	0.00E+00	2.08E-09
981	458261.2	3768110	1.727E-08	8.85E-10	0.00E+00	1.82E-08	1.73E-08	8.85E-10	0.00E+00	1.82E-08	5.17E-09	1.59E-10	0.00E+00	5.33E-09	1.96E-09	5.14E-11	0.00E+00	2.01E-09
982	458261.1	3768100	1.671E-08	8.57E-10	0.00E+00	1.76E-08	1.67E-08	8.57E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.16E-09	1.90E-09	4.97E-11	0.00E+00	1.95E-09
983	458260.9	3768091	1.616E-08	8.29E-10	0.00E+00	1.70E-08	1.62E-08	8.29E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
984	458260.8	3768081	1.562E-08	8.01E-10	0.00E+00	1.64E-08	1.56E-08	8.01E-10	0.00E+00	1.64E-08	4.68E-09	1.44E-10	0.00E+00	4.82E-09	1.77E-09	4.65E-11	0.00E+00	1.82E-09
985	458260.7	3768071	1.51E-08	7.74E-10	0.00E+00	1.59E-08	1.51E-08	7.74E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
986	458260.6	3768062	1.462E-08	7.49E-10	0.00E+00	1.54E-08	1.46E-08	7.49E-10	0.00E+00	1.54E-08	4.38E-09	1.35E-10	0.00E+00	4.51E-09	1.66E-09	4.35E-11	0.00E+00	1.70E-09
987	458260.5	3768052	1.415E-08	7.25E-10	0.00E+00	1.49E-08	1.42E-08	7.25E-10	0.00E+00	1.49E-08	4.24E-09	1.30E-10	0.00E+00	4.37E-09	1.61E-09	4.21E-11	0.00E+00	1.65E-09
988	458260.4	3768042	1.431E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
989	458260.3	3768033	1.383E-08	7.09E-10	0.00E+00	1.45E-08	1.38E-08	7.09E-10	0.00E+00	1.45E-08	4.14E-09	1.28E-10	0.00E+00	4.27E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
990	458260.2	3768023	1.337E-08	6.86E-10	0.00E+00	1.41E-08	1.34E-08	6.86E-10	0.00E+00	1.41E-08	4.01E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
991	458298.9	3768234	2.205E-08	1.13E-09	0.00E+00	2.32E-08	2.21E-08	1.13E-09	0.00E+00	2.32E-08	6.60E-09	2.03E-10	0.00E+00	6.81E-09	2.50E-09	6.56E-11	0.00E+00	2.57E-09
992	458295.3	3768243	2.266E-08	1.16E-09	0.00E+00	2.38E-08	2.27E-08	1.16E-09	0.00E+00	2.38E-08	6.79E-09	2.09E-10	0.00E+00	7.00E-09	2.57E-09	6.74E-11	0.00E+00	2.64E-09
993	458291.7	3768252	2.326E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.14E-10	0.00E+00	7.18E-09	2.64E-09	6.92E-11	0.00E+00	2.71E-09
994	458288.1	3768261	2.386E-08	1.22E-09	0.00E+00	2.51E-08	2.39E-08	1.22E-09	0.00E+00	2.51E-08	7.15E-09	2.20E-10	0.00E+00	7.37E-09	2.71E-09	7.10E-11	0.00E+00	2.78E-09
995	458284.5	3768270	2.445E-08	1.25E-09	0.00E+00	2.57E-08	2.45E-08	1.25E-09	0.00E+00	2.57E-08	7.32E-09	2.25E-10	0.00E+00	7.55E-09	2.77E-09	7.28E-11	0.00E+00	2.85E-09
996	458280.9	3768279	2.504E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.50E-09	2.31E-10	0.00E+00	7.73E-09	2.84E-09	7.45E-11	0.00E+00	2.92E-09
997	458277.3	3768288	2.561E-08	1.31E-09	0.00E+00	2.69E-08	2.56E-08	1.31E-09	0.00E+00	2.69E-08	7.67E-09	2.36E-10	0.00E+00	7.91E-09	2.91E-09	7.62E-11	0.00E+00	2.98E-09
998	458273.7	3768296	2.617E-08	1.34E-09	0.00E+00	2.75E-08	2.62E-08	1.34E-09	0.00E+00	2.75E-08	7.84E-09	2.41E-10	0.00E+00	8.08E-09	2.97E-09	7.79E-11	0.00E+00	3.05E-09
999	458270.1	3768305	2.672E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.00E-09	2.46E-10	0.00E+00	8.25E-09	3.03E-09	7.95E-11	0.00E+00	3.11E-09
1000	458266.4	3768314	2.724E-08	1.40E-09	0.00E+00	2.86E-08	2.72E-08	1.40E-09	0.00E+00	2.86E-08	8.16E-09	2.51E-10	0.00E+00	8.41E-09	3.09E-09	8.11E-11	0.00E+00	3.17E-09
1001	458262.8	3768323	2.775E-08	1.42E-09	0.00E+00	2.92E-08	2.78E-08	1.42E-09	0.00E+00	2.92E-08	8.31E-09	2.56E-10	0.00E+00	8.57E-09	3.15E-09	8.26E-11	0.00E+00	3.23E-09
1002	458259.2	3768332	2.824E-08	1.45E-09	0.00E+00	2.97E-08	2.82E-08	1.45E-09	0.00E+00	2.97E-08	8.46E-09	2.60E-10	0.00E+00	8.72E-09	3.20E-09	8.40E-11	0.00E+00	3.29E-09
1003	458255.6	3768341	2.87E-08	1.47E-09	0.00E+00	3.02E-08	2.87E-08	1.47E-09	0.00E+00	3.02E-08	8.60E-09	2.65E-10	0.00E+00	8.86E-09	3.26E-09	8.54E-11	0.00E+00	3.34E-09
1004	458252	3768350	2.913E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.72E-09	2.69E-10	0.00E+00	8.99E-09	3.30E-09	8.67E-11	0.00E+00	3.39E-09
1005	458248.4	3768359	2.953E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.84E-09	2.72E-10	0.00E+00	9.12E-09	3.35E-09	8.79E-11	0.00E+00	3.44E-09

1006	458244.8	3768368	2.989E-08	1.53E-09	0.00E+00	3.14E-08	2.99E-08	1.53E-09	0.00E+00	3.14E-08	8.95E-09	2.76E-10	0.00E+00	9.23E-09	3.39E-09	8.90E-11	0.00E+00	3.48E-09
1007	458241.2	3768377	3.023E-08	1.55E-09	0.00E+00	3.18E-08	3.02E-08	1.55E-09	0.00E+00	3.18E-08	9.05E-09	2.79E-10	0.00E+00	9.33E-09	3.43E-09	9.00E-11	0.00E+00	3.52E-09
1008	458237.6	3768386	3.053E-08	1.56E-09	0.00E+00	3.21E-08	3.05E-08	1.56E-09	0.00E+00	3.21E-08	9.14E-09	2.81E-10	0.00E+00	9.42E-09	3.46E-09	9.08E-11	0.00E+00	3.55E-09
1009	458234	3768395	3.078E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.22E-09	2.84E-10	0.00E+00	9.50E-09	3.49E-09	9.16E-11	0.00E+00	3.58E-09
1010	458230.4	3768404	3.1E-08	1.59E-09	0.00E+00	3.26E-08	3.10E-08	1.59E-09	0.00E+00	3.26E-08	9.28E-09	2.86E-10	0.00E+00	9.57E-09	3.52E-09	9.22E-11	0.00E+00	3.61E-09
1011	458226.8	3768413	3.118E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.87E-10	0.00E+00	9.63E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
1012	458302.5	3768225	2.144E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
1013	458302.4	3768215	2.1E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.94E-10	0.00E+00	6.48E-09	2.38E-09	6.25E-11	0.00E+00	2.44E-09
1014	458302.3	3768206	2.054E-08	1.05E-09	0.00E+00	2.16E-08	2.05E-08	1.05E-09	0.00E+00	2.16E-08	6.15E-09	1.89E-10	0.00E+00	6.34E-09	2.33E-09	6.11E-11	0.00E+00	2.39E-09
1015	458302.2	3768196	2.007E-08	1.03E-09	0.00E+00	2.11E-08	2.01E-08	1.03E-09	0.00E+00	2.11E-08	6.01E-09	1.85E-10	0.00E+00	6.20E-09	2.28E-09	5.97E-11	0.00E+00	2.34E-09
1016	458302.1	3768186	1.96E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.87E-09	1.81E-10	0.00E+00	6.05E-09	2.22E-09	5.83E-11	0.00E+00	2.28E-09
1017	458302	3768177	1.913E-08	9.81E-10	0.00E+00	2.01E-08	1.91E-08	9.81E-10	0.00E+00	2.01E-08	5.73E-09	1.76E-10	0.00E+00	5.91E-09	2.17E-09	5.69E-11	0.00E+00	2.23E-09
1018	458301.8	3768167	1.865E-08	9.56E-10	0.00E+00	1.96E-08	1.87E-08	9.56E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
1019	458301.7	3768158	1.817E-08	9.32E-10	0.00E+00	1.91E-08	1.82E-08	9.32E-10	0.00E+00	1.91E-08	5.44E-09	1.67E-10	0.00E+00	5.61E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
1020	458301.6	3768148	1.769E-08	9.07E-10	0.00E+00	1.86E-08	1.77E-08	9.07E-10	0.00E+00	1.86E-08	5.30E-09	1.63E-10	0.00E+00	5.46E-09	2.01E-09	5.26E-11	0.00E+00	2.06E-09
1021	458301.5	3768138	1.72E-08	8.82E-10	0.00E+00	1.81E-08	1.72E-08	8.82E-10	0.00E+00	1.81E-08	5.15E-09	1.59E-10	0.00E+00	5.31E-09	1.95E-09	5.12E-11	0.00E+00	2.00E-09
1022	458301.4	3768129	1.671E-08	8.57E-10	0.00E+00	1.76E-08	1.67E-08	8.57E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.16E-09	1.90E-09	4.97E-11	0.00E+00	1.95E-09
1023	458301.3	3768119	1.622E-08	8.32E-10	0.00E+00	1.71E-08	1.62E-08	8.32E-10	0.00E+00	1.71E-08	4.86E-09	1.50E-10	0.00E+00	5.01E-09	1.84E-09	4.83E-11	0.00E+00	1.89E-09
1024	458301.2	3768109	1.573E-08	8.06E-10	0.00E+00	1.65E-08	1.57E-08	8.06E-10	0.00E+00	1.65E-08	4.71E-09	1.45E-10	0.00E+00	4.86E-09	1.78E-09	4.68E-11	0.00E+00	1.83E-09
1025	458301.1	3768100	1.525E-08	7.82E-10	0.00E+00	1.60E-08	1.52E-08	7.82E-10	0.00E+00	1.60E-08	4.57E-09	1.41E-10	0.00E+00	4.71E-09	1.73E-09	4.54E-11	0.00E+00	1.78E-09
1026	458300.9	3768090	1.477E-08	7.57E-10	0.00E+00	1.55E-08	1.48E-08	7.57E-10	0.00E+00	1.55E-08	4.42E-09	1.36E-10	0.00E+00	4.56E-09	1.68E-09	4.39E-11	0.00E+00	1.72E-09
1027	458300.8	3768080	1.43E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.41E-09	1.62E-09	4.25E-11	0.00E+00	1.66E-09
1028	458300.7	3768071	1.385E-08	7.10E-10	0.00E+00	1.46E-08	1.39E-08	7.10E-10	0.00E+00	1.46E-08	4.15E-09	1.28E-10	0.00E+00	4.28E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
1029	458300.6	3768061	1.343E-08	6.89E-10	0.00E+00	1.41E-08	1.34E-08	6.89E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.15E-09	1.52E-09	4.00E-11	0.00E+00	1.56E-09
1030	458300.5	3768052	1.302E-08	6.68E-10	0.00E+00	1.37E-08	1.30E-08	6.68E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.88E-11	0.00E+00	1.52E-09
1031	458300.4	3768042	1.317E-08	6.75E-10	0.00E+00	1.38E-08	1.32E-08	6.75E-10	0.00E+00	1.38E-08	3.94E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
1032	458300.3	3768032	1.276E-08	6.54E-10	0.00E+00	1.34E-08	1.28E-08	6.54E-10	0.00E+00	1.34E-08	3.82E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
1033	458300.2	3768023	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.24E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
1034	458339	3768233	1.994E-08	1.02E-09	0.00E+00	2.10E-08	1.99E-08	1.02E-09	0.00E+00	2.10E-08	5.97E-09	1.84E-10	0.00E+00	6.16E-09	2.26E-09	5.93E-11	0.00E+00	2.32E-09
1035	458335.4	3768242	2.046E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.13E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.09E-11	0.00E+00	2.38E-09
1036	458331.9	3768251	2.099E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.93E-10	0.00E+00	6.48E-09	2.38E-09	6.24E-11	0.00E+00	2.44E-09
1037	458328.3	3768260	2.151E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.64E-09	2.44E-09	6.40E-11	0.00E+00	2.50E-09
1038	458324.8	3768269	2.203E-08	1.13E-09	0.00E+00	2.32E-08	2.20E-08	1.13E-09	0.00E+00	2.32E-08	6.60E-09	2.03E-10	0.00E+00	6.80E-09	2.50E-09	6.56E-11	0.00E+00	2.57E-09
1039	458321.2	3768277	2.255E-08	1.16E-09	0.00E+00	2.37E-08	2.26E-08	1.16E-09	0.00E+00	2.37E-08	6.75E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.71E-11	0.00E+00	2.63E-09
1040	458317.7	3768286	2.306E-08	1.18E-09	0.00E+00	2.42E-08	2.31E-08	1.18E-09	0.00E+00	2.42E-08	6.91E-09	2.13E-10	0.00E+00	7.12E-09	2.62E-09	6.86E-11	0.00E+00	2.69E-09
1041	458314.1	3768295	2.356E-08	1.21E-09	0.00E+00	2.48E-08	2.36E-08	1.21E-09	0.00E+00	2.48E-08	7.06E-09	2.17E-10	0.00E+00	7.27E-09	2.67E-09	7.01E-11	0.00E+00	2.74E-09
1042	458310.5	3768304	2.405E-08	1.23E-09	0.00E+00	2.53E-08	2.41E-08	1.23E-09	0.00E+00	2.53E-08	7.20E-09	2.22E-10	0.00E+00	7.43E-09	2.73E-09	7.16E-11	0.00E+00	2.80E-09
1043	458307	3768312	2.453E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.35E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.30E-11	0.00E+00	2.86E-09
1044	458303.4	3768321	2.499E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.48E-09	2.30E-10	0.00E+00	7.71E-09	2.84E-09	7.44E-11	0.00E+00	2.91E-09
1045	458299.9	3768330	2.544E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.62E-09	2.34E-10	0.00E+00	7.85E-09	2.89E-09	7.57E-11	0.00E+00	2.96E-09
1046	458296.3	3768339	2.587E-08	1.33E-09	0.00E+00	2.72E-08	2.59E-08	1.33E-09	0.00E+00	2.72E-08	7.75E-09	2.38E-10	0.00E+00	7.99E-09	2.93E-09	7.70E-11	0.00E+00	3.01E-09
1047	458292.8	3768348	2.628E-08	1.35E-09	0.00E+00	2.76E-08	2.63E-08	1.35E-09	0.00E+00	2.76E-08	7.87E-09	2.42E-10	0.00E+00	8.11E-09	2.98E-09	7.82E-11	0.00E+00	3.06E-09
1048	458289.2	3768356	2.667E-08	1.37E-09	0.00E+00	2.80E-08	2.67E-08	1.37E-09	0.00E+00	2.80E-08	7.99E-09	2.46E-10	0.00E+00	8.23E-09	3.03E-09	7.94E-11	0.00E+00	3.11E-09
1049	458285.7	3768365	2.703E-08	1.39E-09	0.00E+00	2.84E-08	2.70E-08	1.39E-09	0.00E+00	2.84E-08	8.10E-09	2.49E-10	0.00E+00	8.35E-09	3.07E-09	8.04E-11	0.00E+00	3.15E-09
1050	458282.1	3768374	2.737E-08	1.40E-09	0.00E+00	2.88E-08	2.74E-08	1.40E-09	0.00E+00	2.88E-08	8.20E-09	2.52E-10	0.00E+00	8.45E-09	3.11E-09	8.14E-11	0.00E+00	3.19E-09
1051	458278.6	3768383	2.768E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.29E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.22E-09
1052	458275	3768392	2.796E-08	1.43E-09	0.00E+00	2.94E-08	2.80E-08	1.43E-09	0.00E+00	2.94E-08	8.37E-09	2.58E-10	0.00E+00	8.63E-09	3.17E-09	8.32E-11	0.00E+00	3.26E-09
1053	458271.5	3768400	2.821E-08	1.45E-09	0.00E+00	2.97E-08	2.82E-08	1.45E-09	0.00E+00	2.97E-08	8.45E-09	2.60E-10	0.00E+00	8.71E-09	3.20E-09	8.40E-11	0.00E+00	3.28E-09
1054	458267.9	3768409	2.844E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.52E-09	2.62E-10	0.00E+00	8.78E-09	3.23E-09	8.46E-11	0.00E+00	3.31E-09
1055	458264.4	3768418	2.863E-08	1.47E-09	0.00E+00	3.01E-08	2.86E-08	1.47E-09	0.00E+00	3.01E-08	8.58E-09	2.64E-10	0.00E+00	8.84E-09	3.25E-09	8.52E-11	0.00E+00	3.33E-09
1056	458342.5	3768225	1.942E-08	9.95E-10	0.00E+00	2.04E-08	1.94E-08	9.95E-10	0.00E+00	2.04E-08	5.82E-09	1.79E-10	0.00E+00	5.99E-09	2.20E-09	5.78E-11	0.00E+00	2.26E-09
1057	458342.4	3768215	1.902E-08	9.75E-10	0.00E+00	2.00E-08	1.90E-08	9.75E-10	0.00E+00	2.00E-08	5.70E-09	1.75E-10	0.00E+00	5.87E-09	2.16E-09	5.66E-11	0.00E+00	2.21E-09
1058	458342.3	3768205	1.861E-08	9.54E-10	0.00E+00	1.96E-08	1.86E-08	9.54E-10	0.00E+00	1.96E-08	5.57E-09	1.72E-10	0.00E+00	5.75E-09	2.11E-09	5.54E-11	0.00E+00	2.17E-09
1059	458342.2	3768196	1.82E-08	9.33E-10	0.00E+00	1.91E-08	1.82E-08	9.33E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
1060	458342.1	3768186	1.778E-08	9.11E-10	0.00E+00	1.87E-08	1.78E-08	9.11E-10	0.00E+00	1.87E-08	5.32E-09	1.64E-10	0.00E+00	5.49E-09	2.02E-09	5.29E-11	0.00E+00	2.07E-09
1061	458341.9	3768176	1.735E-08	8.89E-10	0.00E+00	1.82E-08	1.73E-08	8.89E-10	0.00E+00	1.82E-08	5.20E-09	1.60E-10	0.00E+00	5.36E-09	1.97E-09	5.16E-11	0.00E+00	2.02E-09
1062	458341.8	3768167	1.692E-08	8.67E-10	0.00E+00	1.78E-08	1.69E-08	8.67E-10	0.00E+00	1.78E-08	5.07E-09	1.56E-10	0.00E+00	5.22E-09	1.92E-09	5.03E-11	0.00E+00	1.97E-09
1063	458341.7	3768157	1.649E-08	8.45E-10	0.00E+00	1.73E-08	1.65E-08	8.45E-10	0.00E+00	1.73E-08	4.94E-09	1.52E-10	0.00E+00	5.09E-09	1.87E-09	4.91E-11	0.00E+00	1.92E-09
1064	458341.6	3768147	1.606E-08	8.23E-10	0.00E+00	1.69E-08	1.61E-08	8.23E-10	0.00E+00	1.69E-08	4.81E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
1065	458341.5	3768138	1.563E-08	8.01E-10	0.00E+00	1.64E-08	1.56E-08	8.01E-10	0.00E+00	1.64E-08	4.68E-09	1.44E-10	0.00E+00	4.83E-09	1.77E-09	4.65E-11	0.00E+00	1.82E-09
1066	458341.4	3768128	1.522E-08	7.80E-10	0.00E+00	1.60E-08	1.52E-08	7.80E-10	0.00E+00	1.60E-08	4.56E-09	1.40E-10	0.00E+00	4.70E-09	1.73E-09	4.53E-11	0.00E+00	1.77E-09
1067	458341.3	3768119	1.48E-08	7.59E-10	0.00E+00	1.56E-08	1.48E-08	7.59E-10	0.00E+00	1.56E-08	4.43E-09	1.36E-10	0.00E+00	4.57E-09	1.68E-09	4.41E-11	0.00E+00	1.72E-09
1068	458341.2	3768109	1.44E-08	7.38E-10	0.00E+00	1.51E-08	1.44E-08	7.38E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.44E-09	1.63E-09	4.28E-11	0.00E+00	1.68E-09
1069	458341.1	3768099	1.398E-08	7.17E-10	0.00E+00	1.47E-08	1.40E-08	7.17E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.32E-09	1.59E-09	4.16E-11	0.00E+00	1.63E-09
1070	458340.9	3768090	1.356E-08	6.95E-10	0.00E+00	1.43E-08	1.36E-08	6.95E-10	0.00E+00	1.43E-08	4.06E-09	1.25E-10	0.00E+00	4.19E-09	1.54E-09	4.03E-11	0.00E+00	1.58E-09
1071	458340.8	3768080	1.315E-08	6.74E-10	0.00E+00	1.38E-08	1.31E-08	6.74E-10	0.00E+00	1.38E-08	3.94E-09	1.21E-10	0.00E+00	4.06E-09	1.49E-09	3.91E-11	0.00E+00	1.53E-09
1072	458340.7	3768070	1.275E-08	6.53E-10	0.00E+00	1.34E-08	1.27E-08	6.53E-10	0.00E+00	1.34E-08	3.82E-09	1.17E-10	0.00E+00	3.94E-09	1.45E-09	3.79E-11	0.00E+00	1.48E-09
1073	458340.6	3768061	1.236E-08	6.33E-10	0.00E+00	1.30E-08	1.24E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
1074	458340.5	3768051	1.197E-08	6.14E-10	0.00E+00	1.26E-08	1.20E-08	6.14E-10	0.00E+00	1.26E-08	3.59E-09	1.10E-10	0.00E+00	3.70E-09	1.36E-09	3.56E-11	0.00E+00	1.39E-09
1075	458340.4	3768041	1.161E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.48E-09	1.07E-10	0.00E+00	3.58E-09	1.32E-09	3.45E-11	0.00E+00	1.35E-09
1076	458340.3	3768032	1.126E-08	5.77E-10	0.00E+00	1.18E-08	1.13E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
1077	458340.2	3768022	1.092E-08	5.60E-10	0.00E+00	1.15E-08	1.09E-08	5.60E-10	0.00E+00	1.15E-08	3.27E-09	1.01E-10	0.00E+00	3.37E-09	1.24E-09	3.25E-11	0.00E+00	1.27E-09
1078	458378.9	3768233	1.814E-08	9.30E-10	0.00E+00	1.91E-08	1.81E-08	9.30E-10	0.00E+00	1.91E-08	5.43E-09	1.67E-10	0.00E+00	5.60E-09	2.06E-09	5.40E-11	0.00E+00	2.11E-09
1079	458375.4	3768242	1.86E-08	9.54E-10	0.00E+00	1.96E-08	1.86E-08	9.54E-10	0.00E+00	1.96E-08	5.57E-09	1.71E-10	0.00E+00	5.74E-09	2.11E-09	5.54E-11	0.00E+00	2.17E-09
1080	458371.8	3768251	1.907E-08	9.77E-10	0.00E+00	2.00E-08	1.91E-08	9.77E-10	0.00E+00	2.00E-08	5.71E-09	1.76E-10	0.00E+00	5.89E-09	2.16E-09	5.67E-11	0.00E+00	2.22E-09
1081	458368.2	3768259	1.954E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.85E-09	1.80E-10	0.00E+00	6.03E-09	2.22E-09	5.81E-11	0.00E+00	2.27E-09
1082	458364.7	3768268	2.001E-08	1.03E-09	0.00E+00	2.10E-08	2.00E-08	1.03E-09	0.00E+00	2.10E-08	5.99E-09	1.84E-10	0.00E+00	6.18E-09	2.27E-09	5.95E-11	0.00E+00	2.33E-09
1083	458361.1	3768277	2.047E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.13E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.09E-11	0.00E+00	2.38E-09
1084	458357.5	3768286	2.093E-08	1.07E-09	0.00E+00	2.20E-08	2.09E-08	1.07E-09	0.00E+00	2.20E-08	6.27E-09	1.93E-10	0.00E+00	6.46E-09	2.37E-09	6.23E-11	0.00E+00	2.44E-09
1085	458354	3768295	2.139E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.41E-09	1.97E-10	0.00E+00	6.60E-09	2.43E-09	6.36E-11	0.00E+00	2.49E-09
1086	458350.4	3768304	2.183E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.54E-09	2.01E-10	0.00E+00	6.74E-09	2.48E-09	6.50E-11	0.00E+00	2.54E-09
1087	458346.8	3768312	2.227E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.67E-09	2.05E-10	0.00E+00	6.87E-09	2.53E-09	6.63E-11	0.00E+00	2.59E-09
1088	458343.3	3768321	2.269E-08	1.16E-09	0.00E+00	2.39E-08	2.27E-08	1.16E-09	0.00E+00	2.39E-08	6.80E-09	2.09E-10	0.00E+00	7.00E-09	2.57E-09	6.75E-11	0.00E+00	2.64E-09
1089	458339.7	3768330	2.31E-08	1.18E-09	0.00E+00	2.43E-08	2.31E-08	1.18E-09	0.00E+00	2.43E-08	6.92E-09	2.13E-10	0.00E+00	7.13E-09	2.62E-09	6.87E-11	0.00E+00	2.69E-09
1090	458336.1	3768339	2.35E-08	1.20E-09	0.00E+00	2.47E-08	2.35E-08	1.20E-09	0.00E+00	2.47E-08	7.04E-09	2.17E-10	0.00E+00	7.25E-09	2.67E-09	6.99E-11	0.00E+00	2.74E-09
1091	458332.6	3768348	2.388E-08	1.22E-09	0.00E+00	2.51E-08	2.39E-08	1.22E-09	0.00E+00	2.51E-08	7.15E-09	2.20E-10	0.00E+00	7.37E-09	2.71E-09	7.11E-11	0.00E+00	2.78E-09
1092	458329	3768357	2.425E-08	1.24E-09	0.00E+00	2.55E-08	2.43E-08	1.24E-09	0.00E+00	2.55E-08	7.26E-09	2.24E-10	0.00E+00	7.49E-09	2.75E-09	7.22E-11	0.00E+00	2.82E-09
1093	458325.4	3768365	2.461E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.37E-09	2.27E-10	0.00E+00	7.60E-09	2.79E-09	7.32E-11	0.00E+00	2.87E-09
1094	458321.9	3768374	2.494E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.47E-09	2.30E-10	0.00E+00	7.70E-09	2.83E-09	7.42E-11	0.00E+00	2.90E-09
1095	458318.3	3768383	2.525E-08	1.29E-09	0.00E+00	2.65E-08	2.53E-08	1.29E-09	0.00E+00	2.65E-08	7.56E-09	2.33E-10	0.00E+00	7.80E-09	2.87E-09	7.52E-11	0.00E+00	2.94E-09
1096	458314.7	3768392	2.554E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.65E-09	2.35E-10	0.00E+00	7.89E-09	2.90E-09	7.60E-11	0.00E+00	2.97E-09
1097	458311.2	3768401	2.58E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.73E-09	2.38E-10	0.00E+00	7.97E-09	2.93E-09	7.68E-11	0.00E+00	3.00E-09
1098	458307.6	3768410	2.604E-08	1.33E-09	0.00E+00	2.74E-08	2.60E-08	1.33E-09	0.00E+00	2.74E-08	7.80E-09	2.40E-10	0.00E+00	8.04E-09	2.95E-09	7.75E-11	0.00E+00	3.03E-09
1099	458304	3768418	2.625E-08	1.35E-09	0.00E+00	2.76E-08	2.62E-08	1.35E-09	0.00E+00	2.76E-08	7.86E-09	2.42E-10	0.00E+00	8.10E-09	2.98E-09	7.81E-11	0.00E+00	3.06E-09
1100	458382.5	3768224	1.767E-08	9.06E-10	0.00E+00	1.86E-08	1.77E-08	9.06E-10	0.00E+00	1.86E-08	5.29E-09	1.63E-10	0.00E+00	5.45E-09	2.00E-09	5.26E-11	0.00E+00	2.06E-09
1101	458382.4	3768214	1.731E-08	8.88E-10	0.00E+00	1.82E-08	1.73E-08	8.88E-10	0.00E+00	1.82E-08	5.19E-09	1.60E-10	0.00E+00	5.35E-09	1.96E-09	5.15E-11	0.00E+00	2.02E-09
1102	458382.3	3768205	1.695E-08	8.69E-10	0.00E+00	1.78E-08	1.70E-08	8.69E-10	0.00E+00	1.78E-08	5.08E-09	1.56E-10	0.00E+00	5.23E-09	1.92E-09	5.04E-11	0.00E+00	1.97E-09
1103	458382.2	3768195	1.659E-08	8.50E-10	0.00E+00	1.74E-08	1.66E-08	8.50E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.94E-11	0.00E+00	1.93E-09
1104	458382.1	3768186	1.621E-08	8.31E-10	0.00E+00	1.70E-08	1.62E-08	8.31E-10	0.00E+00	1.70E-08	4.86E-09	1.49E-10	0.00E+00	5.01E-09	1.84E-09	4.82E-11	0.00E+00	1.89E-09
1105	458381.9	3768176	1.584E-08	8.12E-10	0.00E+00	1.66E-08	1.58E-08	8.12E-10	0.00E+00	1.66E-08	4.74E-09	1.46E-10	0.00E+00	4.89E-09	1.80E-09	4.71E-11	0.00E+00	1.84E-09
1106	458381.8	3768166	1.546E-08	7.92E-10	0.00E+00	1.62E-08	1.55E-08	7.92E-10	0.00E+00	1.62E-08	4.63E-09	1.42E-10	0.00E+00	4.77E-09	1.75E-09	4.60E-11	0.00E+00	1.80E-09
1107	458381.7	3768157	1.508E-08	7.73E-10	0.00E+00	1.58E-08	1.51E-08	7.73E-10	0.00E+00	1.58E-08	4.52E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
1108	458381.6	3768147	1.469E-08	7.53E-10	0.00E+00	1.54E-08	1.47E-08	7.53E-10	0.00E+00	1.54E-08	4.40E-09	1.35E-10	0.00E+00	4.54E-09	1.67E-09	4.37E-11	0.00E+00	1.71E-09
1109	458381.5	3768137	1.431E-08	7.34E-10	0.00E+00	1.50E-08	1.43E-08	7.34E-10	0.00E+00	1.50E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
1110	458381.4	3768128	1.395E-08	7.15E-10	0.00E+00	1.47E-08	1.39E-08	7.15E-10	0.00E+00	1.47E-08	4.18E-09	1.29E-10	0.00E+00	4.31E-09	1.58E-09	4.15E-11	0.00E+00	1.62E-09
1111	458381.3	3768118	1.359E-08	6.97E-10	0.00E+00	1.43E-08	1.36E-08	6.97E-10	0.00E+00	1.43E-08	4.07E-09	1.25E-10	0.00E+00	4.20E-09	1.54E-09	4.04E-11	0.00E+00	1.58E-09
1112	458381.2	3768108	1.323E-08	6.78E-10	0.00E+00	1.39E-08	1.32E-08	6.78E-10	0.00E+00	1.39E-08	3.96E-09	1.22E-10	0.00E+00	4.09E-09	1.50E-09	3.94E-11	0.00E+00	1.54E-09
1113	458381	3768099	1.287E-08	6.60E-10	0.00E+00	1.35E-08	1.29E-08	6.60E-10	0.00E+00	1.35E-08	3.85E-09	1.19E-10	0.00E+00	3.97E-09	1.46E-09	3.83E-11	0.00E+00	1.50E-09
1114	458380.9	3768089	1.25E-08	6.41E-10	0.00E+00	1.31E-08	1.25E-08	6.41E-10	0.00E+00	1.31E-08	3.74E-09	1.15E-10	0.00E+00	3.86E-09	1.42E-09	3.72E-11	0.00E+00	1.46E-09
1115	458380.8	3768080	1.214E-08	6.22E-10	0.00E+00	1.28E-08	1.21E-08	6.22E-10	0.00E+00	1.28E-08	3.64E-09	1.12E-10	0.00E+00	3.75E-09	1.38E-09	3.61E-11	0.00E+00	1.41E-09
1116	458380.7	3768070	1.178E-08	6.04E-10	0.00E+00	1.24E-08	1.18E-08	6.04E-10	0.00E+00	1.24E-08	3.53E-09	1.09E-10	0.00E+00	3.64E-09	1.34E-09	3.51E-11	0.00E+00	1.37E-09
1117	458380.6	3768060	1.143E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09

1118	458380.5	3768051	1.108E-08	5.68E-10	0.00E+00	1.17E-08	1.11E-08	5.68E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
1119	458380.4	3768041	1.076E-08	5.52E-10	0.00E+00	1.13E-08	1.08E-08	5.52E-10	0.00E+00	1.13E-08	3.22E-09	9.92E-11	0.00E+00	3.32E-09	1.22E-09	3.20E-11	0.00E+00	1.25E-09
1120	458380.3	3768031	1.046E-08	5.36E-10	0.00E+00	1.10E-08	1.05E-08	5.36E-10	0.00E+00	1.10E-08	3.13E-09	9.64E-11	0.00E+00	3.23E-09	1.19E-09	3.11E-11	0.00E+00	1.22E-09
1121	458380.1	3768022	1.016E-08	5.21E-10	0.00E+00	1.07E-08	1.02E-08	5.21E-10	0.00E+00	1.07E-08	3.04E-09	9.37E-11	0.00E+00	3.14E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
1122	458418.9	3768232	1.655E-08	8.49E-10	0.00E+00	1.74E-08	1.66E-08	8.49E-10	0.00E+00	1.74E-08	4.96E-09	1.53E-10	0.00E+00	5.11E-09	1.88E-09	4.93E-11	0.00E+00	1.93E-09
1123	458415.3	3768241	1.698E-08	8.70E-10	0.00E+00	1.78E-08	1.70E-08	8.70E-10	0.00E+00	1.78E-08	5.09E-09	1.57E-10	0.00E+00	5.24E-09	1.93E-09	5.05E-11	0.00E+00	1.98E-09
1124	458411.8	3768250	1.74E-08	8.92E-10	0.00E+00	1.83E-08	1.74E-08	8.92E-10	0.00E+00	1.83E-08	5.21E-09	1.60E-10	0.00E+00	5.37E-09	1.97E-09	5.18E-11	0.00E+00	2.03E-09
1125	458408.2	3768259	1.783E-08	9.14E-10	0.00E+00	1.87E-08	1.78E-08	9.14E-10	0.00E+00	1.87E-08	5.34E-09	1.64E-10	0.00E+00	5.50E-09	2.02E-09	5.30E-11	0.00E+00	2.08E-09
1126	458404.6	3768268	1.825E-08	9.36E-10	0.00E+00	1.92E-08	1.82E-08	9.36E-10	0.00E+00	1.92E-08	5.47E-09	1.68E-10	0.00E+00	5.63E-09	2.07E-09	5.43E-11	0.00E+00	2.12E-09
1127	458401	3768277	1.867E-08	9.57E-10	0.00E+00	1.96E-08	1.87E-08	9.57E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
1128	458397.4	3768286	1.908E-08	9.78E-10	0.00E+00	2.01E-08	1.91E-08	9.78E-10	0.00E+00	2.01E-08	5.72E-09	1.76E-10	0.00E+00	5.89E-09	2.17E-09	5.68E-11	0.00E+00	2.22E-09
1129	458393.8	3768295	1.95E-08	9.99E-10	0.00E+00	2.05E-08	1.95E-08	9.99E-10	0.00E+00	2.05E-08	5.84E-09	1.80E-10	0.00E+00	6.02E-09	2.21E-09	5.80E-11	0.00E+00	2.27E-09
1130	458390.3	3768303	1.99E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.96E-09	1.83E-10	0.00E+00	6.14E-09	2.26E-09	5.92E-11	0.00E+00	2.32E-09
1131	458386.7	3768312	2.03E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.08E-09	1.87E-10	0.00E+00	6.27E-09	2.30E-09	6.04E-11	0.00E+00	2.36E-09
1132	458383.1	3768321	2.069E-08	1.06E-09	0.00E+00	2.17E-08	2.07E-08	1.06E-09	0.00E+00	2.17E-08	6.20E-09	1.91E-10	0.00E+00	6.39E-09	2.35E-09	6.16E-11	0.00E+00	2.41E-09
1133	458379.5	3768330	2.107E-08	1.08E-09	0.00E+00	2.21E-08	2.11E-08	1.08E-09	0.00E+00	2.21E-08	6.31E-09	1.94E-10	0.00E+00	6.50E-09	2.39E-09	6.27E-11	0.00E+00	2.45E-09
1134	458375.9	3768339	2.144E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
1135	458372.4	3768348	2.179E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.53E-09	2.01E-10	0.00E+00	6.73E-09	2.47E-09	6.49E-11	0.00E+00	2.54E-09
1136	458368.8	3768357	2.215E-08	1.14E-09	0.00E+00	2.33E-08	2.21E-08	1.14E-09	0.00E+00	2.33E-08	6.63E-09	2.04E-10	0.00E+00	6.84E-09	2.51E-09	6.59E-11	0.00E+00	2.58E-09
1137	458365.2	3768366	2.248E-08	1.15E-09	0.00E+00	2.36E-08	2.25E-08	1.15E-09	0.00E+00	2.36E-08	6.73E-09	2.07E-10	0.00E+00	6.94E-09	2.55E-09	6.69E-11	0.00E+00	2.62E-09
1138	458361.6	3768374	2.28E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.83E-09	2.10E-10	0.00E+00	7.04E-09	2.59E-09	6.79E-11	0.00E+00	2.66E-09
1139	458358	3768383	2.311E-08	1.18E-09	0.00E+00	2.43E-08	2.31E-08	1.18E-09	0.00E+00	2.43E-08	6.92E-09	2.13E-10	0.00E+00	7.13E-09	2.62E-09	6.88E-11	0.00E+00	2.69E-09
1140	458354.4	3768392	2.339E-08	1.20E-09	0.00E+00	2.46E-08	2.34E-08	1.20E-09	0.00E+00	2.46E-08	7.01E-09	2.16E-10	0.00E+00	7.22E-09	2.65E-09	6.96E-11	0.00E+00	2.72E-09
1141	458350.9	3768401	2.365E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.08E-09	2.18E-10	0.00E+00	7.30E-09	2.68E-09	7.04E-11	0.00E+00	2.75E-09
1142	458347.3	3768410	2.389E-08	1.23E-09	0.00E+00	2.51E-08	2.39E-08	1.23E-09	0.00E+00	2.51E-08	7.16E-09	2.20E-10	0.00E+00	7.38E-09	2.71E-09	7.11E-11	0.00E+00	2.78E-09
1143	458422.5	3768224	1.613E-08	8.27E-10	0.00E+00	1.70E-08	1.61E-08	8.27E-10	0.00E+00	1.70E-08	4.83E-09	1.49E-10	0.00E+00	4.98E-09	1.83E-09	4.80E-11	0.00E+00	1.88E-09
1144	458422.4	3768214	1.582E-08	8.11E-10	0.00E+00	1.66E-08	1.58E-08	8.11E-10	0.00E+00	1.66E-08	4.74E-09	1.46E-10	0.00E+00	4.89E-09	1.80E-09	4.71E-11	0.00E+00	1.84E-09
1145	458422.3	3768204	1.551E-08	7.95E-10	0.00E+00	1.63E-08	1.55E-08	7.95E-10	0.00E+00	1.63E-08	4.65E-09	1.43E-10	0.00E+00	4.79E-09	1.76E-09	4.61E-11	0.00E+00	1.81E-09
1146	458422.2	3768195	1.519E-08	7.79E-10	0.00E+00	1.60E-08	1.52E-08	7.79E-10	0.00E+00	1.60E-08	4.55E-09	1.40E-10	0.00E+00	4.69E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
1147	458422.1	3768185	1.486E-08	7.62E-10	0.00E+00	1.56E-08	1.49E-08	7.62E-10	0.00E+00	1.56E-08	4.45E-09	1.37E-10	0.00E+00	4.59E-09	1.69E-09	4.42E-11	0.00E+00	1.73E-09
1148	458421.9	3768175	1.452E-08	7.45E-10	0.00E+00	1.53E-08	1.45E-08	7.45E-10	0.00E+00	1.53E-08	4.35E-09	1.34E-10	0.00E+00	4.48E-09	1.65E-09	4.32E-11	0.00E+00	1.69E-09
1149	458421.8	3768166	1.419E-08	7.27E-10	0.00E+00	1.49E-08	1.42E-08	7.27E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.38E-09	1.61E-09	4.22E-11	0.00E+00	1.65E-09
1150	458421.7	3768156	1.385E-08	7.10E-10	0.00E+00	1.46E-08	1.38E-08	7.10E-10	0.00E+00	1.46E-08	4.15E-09	1.28E-10	0.00E+00	4.28E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
1151	458421.6	3768147	1.351E-08	6.93E-10	0.00E+00	1.42E-08	1.35E-08	6.93E-10	0.00E+00	1.42E-08	4.05E-09	1.25E-10	0.00E+00	4.17E-09	1.53E-09	4.02E-11	0.00E+00	1.57E-09
1152	458421.5	3768137	1.317E-08	6.75E-10	0.00E+00	1.38E-08	1.32E-08	6.75E-10	0.00E+00	1.38E-08	3.94E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
1153	458421.4	3768127	1.283E-08	6.58E-10	0.00E+00	1.35E-08	1.28E-08	6.58E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.46E-09	3.82E-11	0.00E+00	1.49E-09
1154	458421.3	3768118	1.25E-08	6.41E-10	0.00E+00	1.31E-08	1.25E-08	6.41E-10	0.00E+00	1.31E-08	3.74E-09	1.15E-10	0.00E+00	3.86E-09	1.42E-09	3.72E-11	0.00E+00	1.46E-09
1155	458421.2	3768108	1.216E-08	6.24E-10	0.00E+00	1.28E-08	1.22E-08	6.24E-10	0.00E+00	1.28E-08	3.64E-09	1.12E-10	0.00E+00	3.76E-09	1.38E-09	3.62E-11	0.00E+00	1.42E-09
1156	458421	3768098	1.185E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.34E-09	3.53E-11	0.00E+00	1.38E-09
1157	458420.9	3768089	1.155E-08	5.92E-10	0.00E+00	1.21E-08	1.15E-08	5.92E-10	0.00E+00	1.21E-08	3.46E-09	1.06E-10	0.00E+00	3.56E-09	1.31E-09	3.44E-11	0.00E+00	1.34E-09
1158	458420.8	3768079	1.125E-08	5.77E-10	0.00E+00	1.18E-08	1.12E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
1159	458420.7	3768069	1.094E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.25E-11	0.00E+00	1.27E-09
1160	458420.6	3768060	1.062E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.18E-09	9.79E-11	0.00E+00	3.28E-09	1.21E-09	3.16E-11	0.00E+00	1.24E-09
1161	458420.5	3768050	1.032E-08	5.29E-10	0.00E+00	1.08E-08	1.03E-08	5.29E-10	0.00E+00	1.08E-08	3.09E-09	9.51E-11	0.00E+00	3.18E-09	1.17E-09	3.07E-11	0.00E+00	1.20E-09
1162	458420.4	3768040	1.001E-08	5.13E-10	0.00E+00	1.05E-08	1.00E-08	5.13E-10	0.00E+00	1.05E-08	3.00E-09	9.23E-11	0.00E+00	3.09E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
1163	458420.3	3768031	9.719E-09	4.98E-10	0.00E+00	1.02E-08	9.72E-09	4.98E-10	0.00E+00	1.02E-08	2.91E-09	8.96E-11	0.00E+00	3.00E-09	1.10E-09	2.89E-11	0.00E+00	1.13E-09
1164	458420.1	3768021	9.43E-09	4.83E-10	0.00E+00	9.91E-09	9.43E-09	4.83E-10	0.00E+00	9.91E-09	2.82E-09	8.69E-11	0.00E+00	2.91E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
1165	458458.9	3768232	1.519E-08	7.79E-10	0.00E+00	1.60E-08	1.52E-08	7.79E-10	0.00E+00	1.60E-08	4.55E-09	1.40E-10	0.00E+00	4.69E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
1166	458455.3	3768241	1.557E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
1167	458451.7	3768250	1.595E-08	8.18E-10	0.00E+00	1.68E-08	1.60E-08	8.18E-10	0.00E+00	1.68E-08	4.78E-09	1.47E-10	0.00E+00	4.93E-09	1.81E-09	4.75E-11	0.00E+00	1.86E-09
1168	458448.1	3768259	1.634E-08	8.37E-10	0.00E+00	1.72E-08	1.63E-08	8.37E-10	0.00E+00	1.72E-08	4.89E-09	1.51E-10	0.00E+00	5.04E-09	1.85E-09	4.86E-11	0.00E+00	1.90E-09
1169	458444.5	3768268	1.672E-08	8.57E-10	0.00E+00	1.76E-08	1.67E-08	8.57E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.16E-09	1.90E-09	4.97E-11	0.00E+00	1.95E-09
1170	458440.9	3768277	1.709E-08	8.76E-10	0.00E+00	1.80E-08	1.71E-08	8.76E-10	0.00E+00	1.80E-08	5.12E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
1171	458437.3	3768285	1.747E-08	8.96E-10	0.00E+00	1.84E-08	1.75E-08	8.96E-10	0.00E+00	1.84E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.20E-11	0.00E+00	2.03E-09
1172	458433.7	3768294	1.784E-08	9.15E-10	0.00E+00	1.88E-08	1.78E-08	9.15E-10	0.00E+00	1.88E-08	5.34E-09	1.64E-10	0.00E+00	5.51E-09	2.02E-09	5.31E-11	0.00E+00	2.08E-09
1173	458430.1	3768303	1.821E-08	9.34E-10	0.00E+00	1.91E-08	1.82E-08	9.34E-10	0.00E+00	1.91E-08	5.46E-09	1.68E-10	0.00E+00	5.62E-09	2.07E-09	5.42E-11	0.00E+00	2.12E-09
1174	458426.6	3768312	1.858E-08	9.52E-10	0.00E+00	1.95E-08	1.86E-08	9.52E-10	0.00E+00	1.95E-08	5.56E-09	1.71E-10	0.00E+00	5.74E-09	2.11E-09	5.53E-11	0.00E+00	2.16E-09
1175	458423	3768321	1.894E-08	9.71E-10	0.00E+00	1.99E-08	1.89E-08	9.71E-10	0.00E+00	1.99E-08	5.67E-09	1.75E-10	0.00E+00	5.85E-09	2.15E-09	5.63E-11	0.00E+00	2.20E-09
1176	458419.4	3768330	1.929E-08	9.89E-10	0.00E+00	2.03E-08	1.93E-08	9.89E-10	0.00E+00	2.03E-08	5.78E-09	1.78E-10	0.00E+00	5.95E-09	2.19E-09	5.74E-11	0.00E+00	2.25E-09
1177	458415.8	3768339	1.963E-08	1.01E-09	0.00E+00	2.06E-08	1.96E-08	1.01E-09	0.00E+00	2.06E-08	5.88E-09	1.81E-10	0.00E+00	6.06E-09	2.23E-09	5.84E-11	0.00E+00	2.29E-09
1178	458412.2	3768348	1.996E-08	1.02E-09	0.00E+00	2.10E-08	2.00E-08	1.02E-09	0.00E+00	2.10E-08	5.98E-09	1.84E-10	0.00E+00	6.16E-09	2.26E-09	5.94E-11	0.00E+00	2.32E-09
1179	458408.6	3768357	2.029E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.08E-09	1.87E-10	0.00E+00	6.26E-09	2.30E-09	6.04E-11	0.00E+00	2.36E-09
1180	458405	3768366	2.061E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.17E-09	1.90E-10	0.00E+00	6.36E-09	2.34E-09	6.13E-11	0.00E+00	2.40E-09
1181	458401.4	3768374	2.091E-08	1.07E-09	0.00E+00	2.20E-08	2.09E-08	1.07E-09	0.00E+00	2.20E-08	6.26E-09	1.93E-10	0.00E+00	6.46E-09	2.37E-09	6.22E-11	0.00E+00	2.43E-09
1182	458397.8	3768383	2.12E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.35E-09	1.95E-10	0.00E+00	6.55E-09	2.41E-09	6.31E-11	0.00E+00	2.47E-09
1183	458394.2	3768392	2.148E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.43E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
1184	458390.6	3768401	2.173E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.51E-09	2.00E-10	0.00E+00	6.71E-09	2.47E-09	6.47E-11	0.00E+00	2.53E-09
1185	458387	3768410	2.198E-08	1.13E-09	0.00E+00	2.31E-08	2.20E-08	1.13E-09	0.00E+00	2.31E-08	6.58E-09	2.03E-10	0.00E+00	6.78E-09	2.49E-09	6.54E-11	0.00E+00	2.56E-09
1186	458462.5	3768223	1.482E-08	7.60E-10	0.00E+00	1.56E-08	1.48E-08	7.60E-10	0.00E+00	1.56E-08	4.44E-09	1.37E-10	0.00E+00	4.57E-09	1.68E-09	4.41E-11	0.00E+00	1.72E-09
1187	458462.4	3768214	1.453E-08	7.45E-10	0.00E+00	1.53E-08	1.45E-08	7.45E-10	0.00E+00	1.53E-08	4.35E-09	1.34E-10	0.00E+00	4.49E-09	1.65E-09	4.32E-11	0.00E+00	1.69E-09
1188	458462.3	3768204	1.424E-08	7.30E-10	0.00E+00	1.50E-08	1.42E-08	7.30E-10	0.00E+00	1.50E-08	4.26E-09	1.31E-10	0.00E+00	4.40E-09	1.62E-09	4.24E-11	0.00E+00	1.66E-09
1189	458462.2	3768194	1.395E-08	7.15E-10	0.00E+00	1.47E-08	1.39E-08	7.15E-10	0.00E+00	1.47E-08	4.18E-09	1.29E-10	0.00E+00	4.31E-09	1.58E-09	4.15E-11	0.00E+00	1.62E-09
1190	458462.1	3768185	1.366E-08	7.00E-10	0.00E+00	1.44E-08	1.37E-08	7.00E-10	0.00E+00	1.44E-08	4.09E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09
1191	458461.9	3768175	1.337E-08	6.85E-10	0.00E+00	1.41E-08	1.34E-08	6.85E-10	0.00E+00	1.41E-08	4.00E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
1192	458461.8	3768165	1.308E-08	6.70E-10	0.00E+00	1.37E-08	1.31E-08	6.70E-10	0.00E+00	1.37E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
1193	458461.7	3768156	1.277E-08	6.55E-10	0.00E+00	1.34E-08	1.28E-08	6.55E-10	0.00E+00	1.34E-08	3.83E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
1194	458461.6	3768146	1.247E-08	6.39E-10	0.00E+00	1.31E-08	1.25E-08	6.39E-10	0.00E+00	1.31E-08	3.74E-09	1.15E-10	0.00E+00	3.85E-09	1.42E-09	3.71E-11	0.00E+00	1.45E-09
1195	458461.5	3768136	1.217E-08	6.24E-10	0.00E+00	1.28E-08	1.22E-08	6.24E-10	0.00E+00	1.28E-08	3.65E-09	1.12E-10	0.00E+00	3.76E-09	1.38E-09	3.62E-11	0.00E+00	1.42E-09
1196	458461.4	3768127	1.187E-08	6.09E-10	0.00E+00	1.25E-08	1.19E-08	6.09E-10	0.00E+00	1.25E-08	3.56E-09	1.09E-10	0.00E+00	3.66E-09	1.35E-09	3.53E-11	0.00E+00	1.38E-09
1197	458461.3	3768117	1.157E-08	5.93E-10	0.00E+00	1.22E-08	1.16E-08	5.93E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09
1198	458461.2	3768107	1.128E-08	5.78E-10	0.00E+00	1.19E-08	1.13E-08	5.78E-10	0.00E+00	1.19E-08	3.38E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.36E-11	0.00E+00	1.31E-09
1199	458461	3768098	1.1E-08	5.64E-10	0.00E+00	1.16E-08	1.10E-08	5.64E-10	0.00E+00	1.16E-08	3.29E-09	1.01E-10	0.00E+00	3.40E-09	1.25E-09	3.27E-11	0.00E+00	1.28E-09
1200	458460.9	3768088	1.073E-08	5.50E-10	0.00E+00	1.13E-08	1.07E-08	5.50E-10	0.00E+00	1.13E-08	3.21E-09	9.89E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
1201	458460.8	3768079	1.046E-08	5.36E-10	0.00E+00	1.10E-08	1.05E-08	5.36E-10	0.00E+00	1.10E-08	3.13E-09	9.64E-11	0.00E+00	3.23E-09	1.19E-09	3.11E-11	0.00E+00	1.22E-09
1202	458460.7	3768069	1.018E-08	5.22E-10	0.00E+00	1.07E-08	1.02E-08	5.22E-10	0.00E+00	1.07E-08	3.05E-09	9.39E-11	0.00E+00	3.14E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
1203	458460.6	3768059	9.903E-09	5.08E-10	0.00E+00	1.04E-08	9.90E-09	5.08E-10	0.00E+00	1.04E-08	2.97E-09	9.13E-11	0.00E+00	3.06E-09	1.12E-09	2.95E-11	0.00E+00	1.15E-09
1204	458460.5	3768050	9.629E-09	4.94E-10	0.00E+00	1.01E-08	9.63E-09	4.94E-10	0.00E+00	1.01E-08	2.88E-09	8.88E-11	0.00E+00	2.97E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
1205	458460.4	3768040	9.36E-09	4.80E-10	0.00E+00	9.84E-09	9.36E-09	4.80E-10	0.00E+00	9.84E-09	2.80E-09	8.63E-11	0.00E+00	2.89E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
1206	458460.3	3768030	9.096E-09	4.66E-10	0.00E+00	9.56E-09	9.10E-09	4.66E-10	0.00E+00	9.56E-09	2.72E-09	8.39E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
1207	458460.1	3768021	8.837E-09	4.53E-10	0.00E+00	9.29E-09	8.84E-09	4.53E-10	0.00E+00	9.29E-09	2.65E-09	8.15E-11	0.00E+00	2.73E-09	1.00E-09	2.63E-11	0.00E+00	1.03E-09
1208	458498.9	3768232	1.4E-08	7.18E-10	0.00E+00	1.47E-08	1.40E-08	7.18E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.32E-09	1.59E-09	4.17E-11	0.00E+00	1.63E-09
1209	458495.3	3768241	1.434E-08	7.35E-10	0.00E+00	1.51E-08	1.43E-08	7.35E-10	0.00E+00	1.51E-08	4.30E-09	1.32E-10	0.00E+00	4.43E-09	1.63E-09	4.27E-11	0.00E+00	1.67E-09
1210	458491.7	3768249	1.468E-08	7.53E-10	0.00E+00	1.54E-08	1.47E-08	7.53E-10	0.00E+00	1.54E-08	4.40E-09	1.35E-10	0.00E+00	4.53E-09	1.67E-09	4.37E-11	0.00E+00	1.71E-09
1211	458488.1	3768258	1.503E-08	7.70E-10	0.00E+00	1.58E-08	1.50E-08	7.70E-10	0.00E+00	1.58E-08	4.50E-09	1.39E-10	0.00E+00	4.64E-09	1.70E-09	4.47E-11	0.00E+00	1.75E-09
1212	458484.5	3768267	1.537E-08	7.88E-10	0.00E+00	1.62E-08	1.54E-08	7.88E-10	0.00E+00	1.62E-08	4.60E-09	1.42E-10	0.00E+00	4.75E-09	1.74E-09	4.57E-11	0.00E+00	1.79E-09
1213	458480.9	3768276	1.571E-08	8.06E-10	0.00E+00	1.65E-08	1.57E-08	8.06E-10	0.00E+00	1.65E-08	4.71E-09	1.45E-10	0.00E+00	4.85E-09	1.78E-09	4.68E-11	0.00E+00	1.83E-09
1214	458477.3	3768285	1.606E-08	8.23E-10	0.00E+00	1.69E-08	1.61E-08	8.23E-10	0.00E+00	1.69E-08	4.81E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
1215	458473.6	3768294	1.639E-08	8.40E-10	0.00E+00	1.72E-08	1.64E-08	8.40E-10	0.00E+00	1.72E-08	4.91E-09	1.51E-10	0.00E+00	5.06E-09	1.86E-09	4.88E-11	0.00E+00	1.91E-09
1216	458470	3768303	1.673E-08	8.58E-10	0.00E+00	1.76E-08	1.67E-08	8.58E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.17E-09	1.90E-09	4.98E-11	0.00E+00	1.95E-09
1217	458466.4	3768312	1.706E-08	8.75E-10	0.00E+00	1.79E-08	1.71E-08	8.75E-10	0.00E+00	1.79E-08	5.11E-09	1.57E-10	0.00E+00	5.27E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
1218	458462.8	3768321	1.739E-08	8.92E-10	0.00E+00	1.83E-08	1.74E-08	8.92E-10	0.00E+00	1.83E-08	5.21E-09	1.60E-10	0.00E+00	5.37E-09	1.97E-09	5.18E-11	0.00E+00	2.03E-09
1219	458459.2	3768330	1.772E-08	9.08E-10	0.00E+00	1.86E-08	1.77E-08	9.08E-10	0.00E+00	1.86E-08	5.31E-09	1.63E-10	0.00E+00	5.47E-09	2.01E-09	5.27E-11	0.00E+00	2.06E-09
1220	458455.6	3768339	1.804E-08	9.25E-10	0.00E+00	1.90E-08	1.80E-08	9.25E-10	0.00E+00	1.90E-08	5.40E-09	1.66E-10	0.00E+00	5.57E-09	2.05E-09	5.37E-11	0.00E+00	2.10E-09
1221	458452	3768348	1.835E-08	9.41E-10	0.00E+00	1.93E-08	1.83E-08	9.41E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.66E-09	2.08E-09	5.46E-11	0.00E+00	2.14E-09
1222	458448.4	3768357	1.865E-08	9.56E-10	0.00E+00	1.96E-08	1.87E-08	9.56E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
1223	458444.8	3768366	1.895E-08	9.71E-10	0.00E+00	1.99E-08	1.89E-08	9.71E-10	0.00E+00	1.99E-08	5.68E-09	1.75E-10	0.00E+00	5.85E-09	2.15E-09	5.64E-11	0.00E+00	2.21E-09
1224	458441.2	3768375	1.923E-08	9.86E-10	0.00E+00	2.02E-08	1.92E-08	9.86E-10	0.00E+00	2.02E-08	5.76E-09	1.77E-10	0.00E+00	5.94E-09	2.18E-09	5.72E-11	0.00E+00	2.24E-09
1225	458437.6	3768383	1.951E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.84E-09	1.80E-10	0.00E+00	6.02E-09	2.21E-09	5.81E-11	0.00E+00	2.27E-09
1226	458434	3768392	1.977E-08	1.01E-09	0.00E+00	2.08E-08	1.98E-08	1.01E-09	0.00E+00	2.08E-08	5.92E-09	1.82E-10	0.00E+00	6.10E-09	2.24E-09	5.88E-11	0.00E+00	2.30E-09
1227	458430.4	3768401	2.002E-08	1.03E-09	0.00E+00	2.10E-08	2.00E-08	1.03E-09	0.00E+00	2.10E-08	6.00E-09	1.85E-10	0.00E+00	6.18E-09	2.27E-09	5.96E-11	0.00E+00	2.33E-09
1228	458426.8	3768410	2.026E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.07E-09	1.87E-10	0.00E+00	6.25E-09	2.30E-09	6.03E-11	0.00E+00	2.36E-09
1229	458502.5	3768223	1.366E-08	7.00E-10	0.00E+00	1.44E-08	1.37E-08	7.00E-10	0.00E+00	1.44E-08	4.09E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09

1230	458502.4	3768213	1.34E-08	6.87E-10	0.00E+00	1.41E-08	1.34E-08	6.87E-10	0.00E+00	1.41E-08	4.01E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
1231	458502.3	3768203	1.313E-08	6.73E-10	0.00E+00	1.38E-08	1.31E-08	6.73E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.05E-09	1.49E-09	3.91E-11	0.00E+00	1.53E-09
1232	458502.2	3768194	1.287E-08	6.60E-10	0.00E+00	1.35E-08	1.29E-08	6.60E-10	0.00E+00	1.35E-08	3.85E-09	1.19E-10	0.00E+00	3.97E-09	1.46E-09	3.83E-11	0.00E+00	1.50E-09
1233	458502.1	3768184	1.261E-08	6.47E-10	0.00E+00	1.33E-08	1.26E-08	6.47E-10	0.00E+00	1.33E-08	3.78E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.75E-11	0.00E+00	1.47E-09
1234	458501.9	3768174	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.24E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
1235	458501.8	3768165	1.209E-08	6.20E-10	0.00E+00	1.27E-08	1.21E-08	6.20E-10	0.00E+00	1.27E-08	3.62E-09	1.11E-10	0.00E+00	3.73E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
1236	458501.7	3768155	1.183E-08	6.06E-10	0.00E+00	1.24E-08	1.18E-08	6.06E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
1237	458501.6	3768146	1.156E-08	5.92E-10	0.00E+00	1.21E-08	1.16E-08	5.92E-10	0.00E+00	1.21E-08	3.46E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09
1238	458501.5	3768136	1.129E-08	5.79E-10	0.00E+00	1.19E-08	1.13E-08	5.79E-10	0.00E+00	1.19E-08	3.38E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.36E-11	0.00E+00	1.31E-09
1239	458501.4	3768126	1.102E-08	5.65E-10	0.00E+00	1.16E-08	1.10E-08	5.65E-10	0.00E+00	1.16E-08	3.30E-09	1.02E-10	0.00E+00	3.40E-09	1.25E-09	3.28E-11	0.00E+00	1.28E-09
1240	458501.3	3768117	1.075E-08	5.51E-10	0.00E+00	1.13E-08	1.08E-08	5.51E-10	0.00E+00	1.13E-08	3.22E-09	9.91E-11	0.00E+00	3.32E-09	1.22E-09	3.20E-11	0.00E+00	1.25E-09
1241	458501.2	3768107	1.049E-08	5.38E-10	0.00E+00	1.10E-08	1.05E-08	5.38E-10	0.00E+00	1.10E-08	3.14E-09	9.67E-11	0.00E+00	3.24E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
1242	458501	3768097	1.022E-08	5.24E-10	0.00E+00	1.07E-08	1.02E-08	5.24E-10	0.00E+00	1.07E-08	3.06E-09	9.42E-11	0.00E+00	3.16E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
1243	458500.9	3768088	9.963E-09	5.11E-10	0.00E+00	1.05E-08	9.96E-09	5.11E-10	0.00E+00	1.05E-08	2.98E-09	9.18E-11	0.00E+00	3.08E-09	1.13E-09	2.96E-11	0.00E+00	1.16E-09
1244	458500.8	3768078	9.705E-09	4.98E-10	0.00E+00	1.02E-08	9.70E-09	4.98E-10	0.00E+00	1.02E-08	2.91E-09	8.95E-11	0.00E+00	3.00E-09	1.10E-09	2.89E-11	0.00E+00	1.13E-09
1245	458500.7	3768068	9.466E-09	4.85E-10	0.00E+00	9.95E-09	9.47E-09	4.85E-10	0.00E+00	9.95E-09	2.84E-09	8.73E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
1246	458500.6	3768059	9.234E-09	4.73E-10	0.00E+00	9.71E-09	9.23E-09	4.73E-10	0.00E+00	9.71E-09	2.77E-09	8.51E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.08E-09
1247	458500.5	3768049	9.009E-09	4.62E-10	0.00E+00	9.47E-09	9.01E-09	4.62E-10	0.00E+00	9.47E-09	2.70E-09	8.30E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
1248	458500.4	3768040	8.772E-09	4.50E-10	0.00E+00	9.22E-09	8.77E-09	4.50E-10	0.00E+00	9.22E-09	2.63E-09	8.09E-11	0.00E+00	2.71E-09	9.95E-10	2.61E-11	0.00E+00	1.02E-09
1249	458500.3	3768030	8.535E-09	4.38E-10	0.00E+00	8.97E-09	8.54E-09	4.38E-10	0.00E+00	8.97E-09	2.56E-09	7.87E-11	0.00E+00	2.64E-09	9.68E-10	2.54E-11	0.00E+00	9.94E-10
1250	458500.1	3768020	8.301E-09	4.26E-10	0.00E+00	8.73E-09	8.30E-09	4.26E-10	0.00E+00	8.73E-09	2.49E-09	7.65E-11	0.00E+00	2.56E-09	9.42E-10	2.47E-11	0.00E+00	9.67E-10
1251	457700.2	3768020	1.099E-07	5.64E-09	0.00E+00	1.16E-07	1.10E-07	5.64E-09	0.00E+00	1.16E-07	3.29E-08	1.01E-09	0.00E+00	3.39E-08	1.25E-08	3.27E-10	0.00E+00	1.28E-08
1252	457690.2	3768020	1.233E-07	6.32E-09	0.00E+00	1.30E-07	1.23E-07	6.32E-09	0.00E+00	1.30E-07	3.69E-08	1.14E-09	0.00E+00	3.81E-08	1.40E-08	3.67E-10	0.00E+00	1.44E-08
1253	457680.3	3768020	1.377E-07	7.06E-09	0.00E+00	1.45E-07	1.38E-07	7.06E-09	0.00E+00	1.45E-07	4.12E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
1254	457670.3	3768020	1.524E-07	7.81E-09	0.00E+00	1.60E-07	1.52E-07	7.81E-09	0.00E+00	1.60E-07	4.56E-08	1.40E-09	0.00E+00	4.71E-08	1.73E-08	4.54E-10	0.00E+00	1.77E-08
1255	457660.4	3768020	1.666E-07	8.54E-09	0.00E+00	1.75E-07	1.67E-07	8.54E-09	0.00E+00	1.75E-07	4.99E-08	1.54E-09	0.00E+00	5.14E-08	1.89E-08	4.96E-10	0.00E+00	1.94E-08
1256	457650.4	3768020	1.799E-07	9.22E-09	0.00E+00	1.89E-07	1.80E-07	9.22E-09	0.00E+00	1.89E-07	5.39E-08	1.66E-09	0.00E+00	5.55E-08	2.04E-08	5.35E-10	0.00E+00	2.09E-08
1257	457640.5	3768020	1.919E-07	9.84E-09	0.00E+00	2.02E-07	1.92E-07	9.84E-09	0.00E+00	2.02E-07	5.75E-08	1.77E-09	0.00E+00	5.93E-08	2.18E-08	5.71E-10	0.00E+00	2.23E-08
1258	457630.5	3768020	2.027E-07	1.04E-08	0.00E+00	2.13E-07	2.03E-07	1.04E-08	0.00E+00	2.13E-07	6.07E-08	1.87E-09	0.00E+00	6.26E-08	2.30E-08	6.03E-10	0.00E+00	2.36E-08
1259	457620.6	3768020	2.124E-07	1.09E-08	0.00E+00	2.23E-07	2.12E-07	1.09E-08	0.00E+00	2.23E-07	6.36E-08	1.96E-09	0.00E+00	6.56E-08	2.41E-08	6.32E-10	0.00E+00	2.47E-08
1260	457610.6	3768020	2.211E-07	1.13E-08	0.00E+00	2.32E-07	2.21E-07	1.13E-08	0.00E+00	2.32E-07	6.62E-08	2.04E-09	0.00E+00	6.82E-08	2.51E-08	6.58E-10	0.00E+00	2.57E-08
1261	457600.7	3768020	2.284E-07	1.17E-08	0.00E+00	2.40E-07	2.28E-07	1.17E-08	0.00E+00	2.40E-07	6.84E-08	2.11E-09	0.00E+00	7.05E-08	2.59E-08	6.80E-10	0.00E+00	2.66E-08
1262	457590.7	3768020	2.348E-07	1.20E-08	0.00E+00	2.47E-07	2.35E-07	1.20E-08	0.00E+00	2.47E-07	7.03E-08	2.16E-09	0.00E+00	7.25E-08	2.66E-08	6.99E-10	0.00E+00	2.73E-08
1263	457580.8	3768020	2.403E-07	1.23E-08	0.00E+00	2.53E-07	2.40E-07	1.23E-08	0.00E+00	2.53E-07	7.20E-08	2.22E-09	0.00E+00	7.42E-08	2.73E-08	7.15E-10	0.00E+00	2.80E-08
1264	457570.8	3768020	2.45E-07	1.26E-08	0.00E+00	2.58E-07	2.45E-07	1.26E-08	0.00E+00	2.58E-07	7.34E-08	2.26E-09	0.00E+00	7.57E-08	2.78E-08	7.29E-10	0.00E+00	2.85E-08
1265	457560.9	3768020	2.491E-07	1.28E-08	0.00E+00	2.62E-07	2.49E-07	1.28E-08	0.00E+00	2.62E-07	7.46E-08	2.30E-09	0.00E+00	7.69E-08	2.83E-08	7.41E-10	0.00E+00	2.90E-08
1266	457550.9	3768020	2.526E-07	1.29E-08	0.00E+00	2.66E-07	2.53E-07	1.29E-08	0.00E+00	2.66E-07	7.56E-08	2.33E-09	0.00E+00	7.80E-08	2.87E-08	7.52E-10	0.00E+00	2.94E-08
1267	457541	3768020	2.555E-07	1.31E-08	0.00E+00	2.69E-07	2.55E-07	1.31E-08	0.00E+00	2.69E-07	7.65E-08	2.36E-09	0.00E+00	7.89E-08	2.90E-08	7.60E-10	0.00E+00	2.97E-08
1268	457531	3768020	2.575E-07	1.32E-08	0.00E+00	2.71E-07	2.58E-07	1.32E-08	0.00E+00	2.71E-07	7.71E-08	2.37E-09	0.00E+00	7.95E-08	2.92E-08	7.66E-10	0.00E+00	3.00E-08
1269	457521.1	3768020	2.59E-07	1.33E-08	0.00E+00	2.72E-07	2.59E-07	1.33E-08	0.00E+00	2.72E-07	7.76E-08	2.39E-09	0.00E+00	8.00E-08	2.94E-08	7.71E-10	0.00E+00	3.02E-08
1270	457511.1	3768020	2.599E-07	1.33E-08	0.00E+00	2.73E-07	2.60E-07	1.33E-08	0.00E+00	2.73E-07	7.78E-08	2.40E-09	0.00E+00	8.02E-08	2.95E-08	7.73E-10	0.00E+00	3.03E-08
1271	457501.2	3768020	2.608E-07	1.34E-08	0.00E+00	2.74E-07	2.61E-07	1.34E-08	0.00E+00	2.74E-07	7.81E-08	2.40E-09	0.00E+00	8.05E-08	2.96E-08	7.76E-10	0.00E+00	3.04E-08
1272	457491.3	3768020	2.615E-07	1.34E-08	0.00E+00	2.75E-07	2.61E-07	1.34E-08	0.00E+00	2.75E-07	7.83E-08	2.41E-09	0.00E+00	8.07E-08	2.97E-08	7.78E-10	0.00E+00	3.04E-08
1273	457481.3	3768020	2.617E-07	1.34E-08	0.00E+00	2.75E-07	2.62E-07	1.34E-08	0.00E+00	2.75E-07	7.84E-08	2.41E-09	0.00E+00	8.08E-08	2.97E-08	7.79E-10	0.00E+00	3.05E-08
1274	457471.4	3768020	2.617E-07	1.34E-08	0.00E+00	2.75E-07	2.62E-07	1.34E-08	0.00E+00	2.75E-07	7.84E-08	2.41E-09	0.00E+00	8.08E-08	2.97E-08	7.79E-10	0.00E+00	3.05E-08
1275	457461.4	3768020	2.613E-07	1.34E-08	0.00E+00	2.75E-07	2.61E-07	1.34E-08	0.00E+00	2.75E-07	7.83E-08	2.41E-09	0.00E+00	8.07E-08	2.96E-08	7.77E-10	0.00E+00	3.04E-08
1276	457451.5	3768020	2.606E-07	1.34E-08	0.00E+00	2.74E-07	2.61E-07	1.34E-08	0.00E+00	2.74E-07	7.80E-08	2.40E-09	0.00E+00	8.04E-08	2.96E-08	7.75E-10	0.00E+00	3.03E-08
1277	457441.5	3768020	2.589E-07	1.33E-08	0.00E+00	2.72E-07	2.59E-07	1.33E-08	0.00E+00	2.72E-07	7.76E-08	2.39E-09	0.00E+00	7.99E-08	2.94E-08	7.70E-10	0.00E+00	3.01E-08
1278	457431.6	3768020	2.568E-07	1.32E-08	0.00E+00	2.70E-07	2.57E-07	1.32E-08	0.00E+00	2.70E-07	7.69E-08	2.37E-09	0.00E+00	7.93E-08	2.91E-08	7.64E-10	0.00E+00	2.99E-08
1279	457421.6	3768020	2.542E-07	1.30E-08	0.00E+00	2.67E-07	2.54E-07	1.30E-08	0.00E+00	2.67E-07	7.61E-08	2.34E-09	0.00E+00	7.85E-08	2.88E-08	7.56E-10	0.00E+00	2.96E-08
1280	457411.7	3768020	2.517E-07	1.29E-08	0.00E+00	2.65E-07	2.52E-07	1.29E-08	0.00E+00	2.65E-07	7.54E-08	2.32E-09	0.00E+00	7.77E-08	2.86E-08	7.49E-10	0.00E+00	2.93E-08
1281	457401.7	3768020	2.489E-07	1.28E-08	0.00E+00	2.62E-07	2.49E-07	1.28E-08	0.00E+00	2.62E-07	7.45E-08	2.29E-09	0.00E+00	7.68E-08	2.82E-08	7.41E-10	0.00E+00	2.90E-08
1282	457391.8	3768020	2.455E-07	1.26E-08	0.00E+00	2.58E-07	2.45E-07	1.26E-08	0.00E+00	2.58E-07	7.35E-08	2.26E-09	0.00E+00	7.58E-08	2.78E-08	7.30E-10	0.00E+00	2.86E-08
1283	457381.8	3768020	2.413E-07	1.24E-08	0.00E+00	2.54E-07	2.41E-07	1.24E-08	0.00E+00	2.54E-07	7.23E-08	2.22E-09	0.00E+00	7.45E-08	2.74E-08	7.18E-10	0.00E+00	2.81E-08
1284	457371.9	3768020	2.362E-07	1.21E-08	0.00E+00	2.48E-07	2.36E-07	1.21E-08	0.00E+00	2.48E-07	7.07E-08	2.18E-09	0.00E+00	7.29E-08	2.68E-08	7.03E-10	0.00E+00	2.75E-08
1285	457361.9	3768020	2.3E-07	1.18E-08	0.00E+00	2.42E-07	2.30E-07	1.18E-08	0.00E+00	2.42E-07	6.89E-08	2.12E-09	0.00E+00	7.10E-08	2.61E-08	6.84E-10	0.00E+00	2.68E-08
1286	457352	3768020	2.225E-07	1.14E-08	0.00E+00	2.34E-07	2.22E-07	1.14E-08	0.00E+00	2.34E-07	6.66E-08	2.05E-09	0.00E+00	6.87E-08	2.52E-08	6.62E-10	0.00E+00	2.59E-08
1287	457342	3768020	2.133E-07	1.09E-08	0.00E+00	2.24E-07	2.13E-07	1.09E-08	0.00E+00	2.24E-07	6.39E-08	1.97E-09	0.00E+00	6.58E-08	2.42E-08	6.35E-10	0.00E+00	2.48E-08
1288	457332.1	3768020	2.022E-07	1.04E-08	0.00E+00	2.13E-07	2.02E-07	1.04E-08	0.00E+00	2.13E-07	6.05E-08	1.86E-09	0.00E+00	6.24E-08	2.29E-08	6.02E-10	0.00E+00	2.35E-08
1289	457690.2	3768010	1.079E-07	5.53E-09	0.00E+00	1.13E-07	1.08E-07	5.53E-09	0.00E+00	1.13E-07	3.23E-08	9.95E-10	0.00E+00	3.33E-08	1.22E-08	3.21E-10	0.00E+00	1.26E-08
1290	457680.3	3768010	1.194E-07	6.12E-09	0.00E+00	1.26E-07	1.19E-07	6.12E-09	0.00E+00	1.26E-07	3.58E-08	1.10E-09	0.00E+00	3.69E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
1291	457670.3	3768010	1.313E-07	6.73E-09	0.00E+00	1.38E-07	1.31E-07	6.73E-09	0.00E+00	1.38E-07	3.93E-08	1.21E-09	0.00E+00	4.05E-08	1.49E-08	3.91E-10	0.00E+00	1.53E-08
1292	457660.4	3768010	1.43E-07	7.33E-09	0.00E+00	1.50E-07	1.43E-07	7.33E-09	0.00E+00	1.50E-07	4.28E-08	1.32E-09	0.00E+00	4.42E-08	1.62E-08	4.26E-10	0.00E+00	1.67E-08
1293	457650.4	3768010	1.543E-07	7.91E-09	0.00E+00	1.62E-07	1.54E-07	7.91E-09	0.00E+00	1.62E-07	4.62E-08	1.42E-09	0.00E+00	4.76E-08	1.75E-08	4.59E-10	0.00E+00	1.80E-08
1294	457640.5	3768010	1.649E-07	8.45E-09	0.00E+00	1.73E-07	1.65E-07	8.45E-09	0.00E+00	1.73E-07	4.94E-08	1.52E-09	0.00E+00	5.09E-08	1.87E-08	4.91E-10	0.00E+00	1.92E-08
1295	457630.5	3768010	1.745E-07	8.95E-09	0.00E+00	1.83E-07	1.75E-07	8.95E-09	0.00E+00	1.83E-07	5.23E-08	1.61E-09	0.00E+00	5.39E-08	1.98E-08	5.19E-10	0.00E+00	2.03E-08
1296	457620.6	3768010	1.834E-07	9.40E-09	0.00E+00	1.93E-07	1.83E-07	9.40E-09	0.00E+00	1.93E-07	5.49E-08	1.69E-09	0.00E+00	5.66E-08	2.08E-08	5.46E-10	0.00E+00	2.13E-08
1297	457610.6	3768010	1.912E-07	9.80E-09	0.00E+00	2.01E-07	1.91E-07	9.80E-09	0.00E+00	2.01E-07	5.73E-08	1.76E-09	0.00E+00	5.90E-08	2.17E-08	5.69E-10	0.00E+00	2.23E-08
1298	457600.7	3768010	1.981E-07	1.02E-08	0.00E+00	2.08E-07	1.98E-07	1.02E-08	0.00E+00	2.08E-07	5.93E-08	1.83E-09	0.00E+00	6.12E-08	2.25E-08	5.90E-10	0.00E+00	2.31E-08
1299	457590.7	3768010	2.042E-07	1.05E-08	0.00E+00	2.15E-07	2.04E-07	1.05E-08	0.00E+00	2.15E-07	6.12E-08	1.88E-09	0.00E+00	6.30E-08	2.32E-08	6.08E-10	0.00E+00	2.38E-08
1300	457580.8	3768010	2.096E-07	1.07E-08	0.00E+00	2.20E-07	2.10E-07	1.07E-08	0.00E+00	2.20E-07	6.28E-08	1.93E-09	0.00E+00	6.47E-08	2.38E-08	6.24E-10	0.00E+00	2.44E-08
1301	457570.8	3768010	2.142E-07	1.10E-08	0.00E+00	2.25E-07	2.14E-07	1.10E-08	0.00E+00	2.25E-07	6.42E-08	1.97E-09	0.00E+00	6.61E-08	2.43E-08	6.38E-10	0.00E+00	2.49E-08
1302	457560.9	3768010	2.183E-07	1.12E-08	0.00E+00	2.29E-07	2.18E-07	1.12E-08	0.00E+00	2.29E-07	6.54E-08	2.01E-09	0.00E+00	6.74E-08	2.48E-08	6.50E-10	0.00E+00	2.54E-08
1303	457550.9	3768010	2.217E-07	1.14E-08	0.00E+00	2.33E-07	2.22E-07	1.14E-08	0.00E+00	2.33E-07	6.64E-08	2.04E-09	0.00E+00	6.84E-08	2.51E-08	6.60E-10	0.00E+00	2.58E-08
1304	457541	3768010	2.246E-07	1.15E-08	0.00E+00	2.36E-07	2.25E-07	1.15E-08	0.00E+00	2.36E-07	6.73E-08	2.07E-09	0.00E+00	6.93E-08	2.55E-08	6.68E-10	0.00E+00	2.61E-08
1305	457531	3768010	2.268E-07	1.16E-08	0.00E+00	2.38E-07	2.27E-07	1.16E-08	0.00E+00	2.38E-07	6.79E-08	2.09E-09	0.00E+00	7.00E-08	2.57E-08	6.75E-10	0.00E+00	2.64E-08
1306	457521.1	3768010	2.286E-07	1.17E-08	0.00E+00	2.40E-07	2.29E-07	1.17E-08	0.00E+00	2.40E-07	6.85E-08	2.11E-09	0.00E+00	7.06E-08	2.59E-08	6.80E-10	0.00E+00	2.66E-08
1307	457511.1	3768010	2.299E-07	1.18E-08	0.00E+00	2.42E-07	2.30E-07	1.18E-08	0.00E+00	2.42E-07	6.89E-08	2.12E-09	0.00E+00	7.10E-08	2.61E-08	6.84E-10	0.00E+00	2.68E-08
1308	457501.2	3768010	2.311E-07	1.18E-08	0.00E+00	2.43E-07	2.31E-07	1.18E-08	0.00E+00	2.43E-07	6.92E-08	2.13E-09	0.00E+00	7.14E-08	2.62E-08	6.88E-10	0.00E+00	2.69E-08
1309	457491.2	3768010	2.321E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.95E-08	2.14E-09	0.00E+00	7.16E-08	2.63E-08	6.90E-10	0.00E+00	2.70E-08
1310	457481.3	3768010	2.326E-07	1.19E-08	0.00E+00	2.45E-07	2.33E-07	1.19E-08	0.00E+00	2.45E-07	6.97E-08	2.14E-09	0.00E+00	7.18E-08	2.64E-08	6.92E-10	0.00E+00	2.71E-08
1311	457471.3	3768010	2.328E-07	1.19E-08	0.00E+00	2.45E-07	2.33E-07	1.19E-08	0.00E+00	2.45E-07	6.97E-08	2.15E-09	0.00E+00	7.19E-08	2.64E-08	6.93E-10	0.00E+00	2.71E-08
1312	457461.4	3768010	2.326E-07	1.19E-08	0.00E+00	2.45E-07	2.33E-07	1.19E-08	0.00E+00	2.45E-07	6.97E-08	2.14E-09	0.00E+00	7.18E-08	2.64E-08	6.92E-10	0.00E+00	2.71E-08
1313	457451.4	3768010	2.321E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.95E-08	2.14E-09	0.00E+00	7.17E-08	2.63E-08	6.91E-10	0.00E+00	2.70E-08
1314	457441.5	3768010	2.31E-07	1.18E-08	0.00E+00	2.43E-07	2.31E-07	1.18E-08	0.00E+00	2.43E-07	6.92E-08	2.13E-09	0.00E+00	7.13E-08	2.62E-08	6.87E-10	0.00E+00	2.69E-08
1315	457431.5	3768010	2.294E-07	1.18E-08	0.00E+00	2.41E-07	2.29E-07	1.18E-08	0.00E+00	2.41E-07	6.87E-08	2.11E-09	0.00E+00	7.08E-08	2.60E-08	6.83E-10	0.00E+00	2.67E-08
1316	457421.6	3768010	2.274E-07	1.17E-08	0.00E+00	2.39E-07	2.27E-07	1.17E-08	0.00E+00	2.39E-07	6.81E-08	2.10E-09	0.00E+00	7.02E-08	2.58E-08	6.77E-10	0.00E+00	2.65E-08
1317	457411.6	3768010	2.255E-07	1.16E-08	0.00E+00	2.37E-07	2.25E-07	1.16E-08	0.00E+00	2.37E-07	6.75E-08	2.08E-09	0.00E+00	6.96E-08	2.56E-08	6.71E-10	0.00E+00	2.63E-08
1318	457401.7	3768010	2.232E-07	1.14E-08	0.00E+00	2.35E-07	2.23E-07	1.14E-08	0.00E+00	2.35E-07	6.68E-08	2.06E-09	0.00E+00	6.89E-08	2.53E-08	6.64E-10	0.00E+00	2.60E-08
1319	457391.7	3768010	2.203E-07	1.13E-08	0.00E+00	2.32E-07	2.20E-07	1.13E-08	0.00E+00	2.32E-07	6.60E-08	2.03E-09	0.00E+00	6.80E-08	2.50E-08	6.55E-10	0.00E+00	2.56E-08
1320	457381.8	3768010	2.168E-07	1.11E-08	0.00E+00	2.28E-07	2.17E-07	1.11E-08	0.00E+00	2.28E-07	6.49E-08	2.00E-09	0.00E+00	6.69E-08	2.46E-08	6.45E-10	0.00E+00	2.52E-08
1321	457371.8	3768010	2.125E-07	1.09E-08	0.00E+00	2.23E-07	2.13E-07	1.09E-08	0.00E+00	2.23E-07	6.37E-08	1.96E-09	0.00E+00	6.56E-08	2.41E-08	6.32E-10	0.00E+00	2.47E-08
1322	457361.9	3768010	2.073E-07	1.06E-08	0.00E+00	2.18E-07	2.07E-07	1.06E-08	0.00E+00	2.18E-07	6.21E-08	1.91E-09	0.00E+00	6.40E-08	2.35E-08	6.17E-10	0.00E+00	2.41E-08
1323	457352	3768010	2.009E-07	1.03E-08	0.00E+00	2.11E-07	2.01E-07	1.03E-08	0.00E+00	2.11E-07	6.02E-08	1.85E-09	0.00E+00	6.20E-08	2.28E-08	5.98E-10	0.00E+00	2.34E-08
1324	457342	3768010	1.932E-07	9.90E-09	0.00E+00	2.03E-07	1.93E-07	9.90E-09	0.00E+00	2.03E-07	5.79E-08	1.78E-09	0.00E+00	5.96E-08	2.19E-08	5.75E-10	0.00E+00	2.25E-08
1325	457332.1	3768010	1.84E-07	9.44E-09	0.00E+00	1.93E-07	1.84E-07	9.44E-09	0.00E+00	1.93E-07	5.51E-08	1.70E-09	0.00E+00	5.68E-08	2.09E-08	5.48E-10	0.00E+00	2.14E-08
1326	457690.2	3768000	9.594E-08	4.92E-09	0.00E+00	1.01E-07	9.59E-08	4.92E-09	0.00E+00	1.01E-07	2.87E-08	8.84E-10	0.00E+00	2.96E-08	1.09E-08	2.85E-10	0.00E+00	1.12E-08
1327	457680.3	3768000	1.053E-07	5.40E-09	0.00E+00	1.11E-07	1.05E-07	5.40E-09	0.00E+00	1.11E-07	3.16E-08	9.71E-10	0.00E+00	3.25E-08	1.20E-08	3.13E-10	0.00E+00	1.23E-08
1328	457670.3	3768000	1.152E-07	5.90E-09	0.00E+00	1.21E-07	1.15E-07	5.90E-09	0.00E+00	1.21E-07	3.45E-08	1.06E-09	0.00E+00	3.56E-08	1.31E-08	3.43E-10	0.00E+00	1.34E-08
1329	457660.4	3768000	1.25E-07	6.41E-09	0.00E+00	1.31E-07	1.25E-07	6.41E-09	0.00E+00	1.31E-07	3.74E-08	1.15E-09	0.00E+00	3.86E-08	1.42E-08	3.72E-10	0.00E+00	1.46E-08
1330	457650.4	3768000	1.348E-07	6.91E-09	0.00E+00	1.42E-07	1.35E-07	6.91E-09	0.00E+00	1.42E-07	4.04E-08	1.24E-09	0.00E+00	4.16E-08	1.53E-08	4.01E-10	0.00E+00	1.57E-08
1331	457640.5	3768000	1.44E-07	7.38E-09	0.00E+00	1.51E-07	1.44E-07	7.38E-09	0.00E+00	1.51E-07	4.31E-08	1.33E-09	0.00E+00	4.45E-08	1.63E-08	4.28E-10	0.00E+00	1.68E-08
1332	457630.5	3768000	1.526E-07	7.83E-09	0.00E+00	1.60E-07	1.53E-07	7.83E-09	0.00E+00	1.60E-07	4.57E-08	1.41E-09	0.00E+00	4.71E-08	1.73E-08	4.54E-10	0.00E+00	1.78E-08
1333	457620.6	3768000	1.605E-07	8.23E-09	0.00E+00	1.69E-07	1.61E-07	8.23E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.96E-08	1.82E-08	4.78E-10	0.00E+00	1.87E-08
1334	457610.6	3768000	1.677E-07	8.60E-09	0.00E+00	1.76E-07	1.68E-07	8.60E-09	0.00E+00	1.76E-07	5.02E-08	1.55E-09	0.00E+00	5.18E-08	1.90E-08	4.99E-10	0.00E+00	1.95E-08
1335	457600.7	3768000	1.742E-07	8.93E-09	0.00E+00	1.83E-07	1.74E-07	8.93E-09	0.00E+00	1.83E-07	5.22E-08	1.61E-09	0.00E+00	5.38E-08	1.98E-08	5.18E-10	0.00E+00	2.03E-08
1336	457590.7	3768000	1.8E-07	9.23E-09	0.00E+00	1.89E-07	1.80E-07	9.23E-09	0.00E+00	1.89E-07	5.39E-08	1.66E-09	0.00E+00	5.56E-08	2.04E-08	5.36E-10	0.00E+00	2.10E-08
1337	457580.8	3768000	1.851E-07	9.49E-09	0.00E+00	1.95E-07	1.85E-07	9.49E-09	0.00E+00	1.95E-07	5.54E-08	1.71E-09	0.00E+00	5.72E-08	2.10E-08	5.51E-10	0.00E+00	2.16E-08
1338	457570.8	3768000	1.897E-07	9.72E-09	0.00E+00	1.99E-07	1.90E-07	9.72E-09	0.00E+00	1.99E-07	5.68E-08	1.75E-09	0.00E+00	5.86E-08	2.15E-08	5.64E-10	0.00E+00	2.21E-08
1339	457560.9	3768000	1.936E-07	9.92E-09	0.00E+00	2.03E-07	1.94E-07	9.92E-09	0.00E+00	2.03E-07	5.80E-08	1.78E-09	0.00E+00	5.98E-08	2.20E-08	5.76E-10	0.00E+00	2.25E-08
1340	457550.9	3768000	1.969E-07	1.01E-08	0.00E+00	2.07E-07	1.97E-07	1.01E-08	0.00E+00	2.07E-07	5.90E-08	1.82E-09	0.00E+00	6.08E-08	2.23E-08	5.86E-10	0.00E+00	2.29E-08
1341	457541	3768000	1.998E-07	1.02E-08	0.00E+00	2.10E-07	2.00E-07	1.02E-08	0.00E+00	2.10E-07	5.98E-08	1.84E-09	0.00E+00	6.17E-08	2.27E-08	5.95E-10	0.00E+00	2.33E-08

1342	457531	3768000	2.022E-07	1.04E-08	0.00E+00	2.13E-07	2.02E-07	1.04E-08	0.00E+00	2.13E-07	6.06E-08	1.86E-09	0.00E+00	6.24E-08	2.29E-08	6.02E-10	0.00E+00	2.35E-08
1343	457521.1	3768000	2.043E-07	1.05E-08	0.00E+00	2.15E-07	2.04E-07	1.05E-08	0.00E+00	2.15E-07	6.12E-08	1.88E-09	0.00E+00	6.31E-08	2.32E-08	6.08E-10	0.00E+00	2.38E-08
1344	457511.1	3768000	2.059E-07	1.06E-08	0.00E+00	2.16E-07	2.06E-07	1.06E-08	0.00E+00	2.16E-07	6.17E-08	1.90E-09	0.00E+00	6.36E-08	2.34E-08	6.13E-10	0.00E+00	2.40E-08
1345	457501.2	3768000	2.073E-07	1.06E-08	0.00E+00	2.18E-07	2.07E-07	1.06E-08	0.00E+00	2.18E-07	6.21E-08	1.91E-09	0.00E+00	6.40E-08	2.35E-08	6.17E-10	0.00E+00	2.41E-08
1346	457491.2	3768000	2.084E-07	1.07E-08	0.00E+00	2.19E-07	2.08E-07	1.07E-08	0.00E+00	2.19E-07	6.24E-08	1.92E-09	0.00E+00	6.43E-08	2.36E-08	6.20E-10	0.00E+00	2.43E-08
1347	457481.3	3768000	2.092E-07	1.07E-08	0.00E+00	2.20E-07	2.09E-07	1.07E-08	0.00E+00	2.20E-07	6.27E-08	1.93E-09	0.00E+00	6.46E-08	2.37E-08	6.23E-10	0.00E+00	2.44E-08
1348	457471.3	3768000	2.095E-07	1.07E-08	0.00E+00	2.20E-07	2.10E-07	1.07E-08	0.00E+00	2.20E-07	6.28E-08	1.93E-09	0.00E+00	6.47E-08	2.38E-08	6.23E-10	0.00E+00	2.44E-08
1349	457461.4	3768000	2.094E-07	1.07E-08	0.00E+00	2.20E-07	2.09E-07	1.07E-08	0.00E+00	2.20E-07	6.27E-08	1.93E-09	0.00E+00	6.47E-08	2.38E-08	6.23E-10	0.00E+00	2.44E-08
1350	457451.4	3768000	2.091E-07	1.07E-08	0.00E+00	2.20E-07	2.09E-07	1.07E-08	0.00E+00	2.20E-07	6.26E-08	1.93E-09	0.00E+00	6.45E-08	2.37E-08	6.22E-10	0.00E+00	2.43E-08
1351	457441.5	3768000	2.084E-07	1.07E-08	0.00E+00	2.19E-07	2.08E-07	1.07E-08	0.00E+00	2.19E-07	6.24E-08	1.92E-09	0.00E+00	6.43E-08	2.36E-08	6.20E-10	0.00E+00	2.43E-08
1352	457431.5	3768000	2.074E-07	1.06E-08	0.00E+00	2.18E-07	2.07E-07	1.06E-08	0.00E+00	2.18E-07	6.21E-08	1.91E-09	0.00E+00	6.40E-08	2.35E-08	6.17E-10	0.00E+00	2.41E-08
1353	457421.6	3768000	2.06E-07	1.06E-08	0.00E+00	2.17E-07	2.06E-07	1.06E-08	0.00E+00	2.17E-07	6.17E-08	1.90E-09	0.00E+00	6.36E-08	2.34E-08	6.13E-10	0.00E+00	2.40E-08
1354	457411.6	3768000	2.045E-07	1.05E-08	0.00E+00	2.15E-07	2.04E-07	1.05E-08	0.00E+00	2.15E-07	6.12E-08	1.88E-09	0.00E+00	6.31E-08	2.32E-08	6.08E-10	0.00E+00	2.38E-08
1355	457401.7	3768000	2.025E-07	1.04E-08	0.00E+00	2.13E-07	2.03E-07	1.04E-08	0.00E+00	2.13E-07	6.07E-08	1.87E-09	0.00E+00	6.25E-08	2.30E-08	6.03E-10	0.00E+00	2.36E-08
1356	457391.7	3768000	2.001E-07	1.03E-08	0.00E+00	2.10E-07	2.00E-07	1.03E-08	0.00E+00	2.10E-07	5.99E-08	1.84E-09	0.00E+00	6.18E-08	2.27E-08	5.95E-10	0.00E+00	2.33E-08
1357	457381.8	3768000	1.971E-07	1.01E-08	0.00E+00	2.07E-07	1.97E-07	1.01E-08	0.00E+00	2.07E-07	5.90E-08	1.82E-09	0.00E+00	6.09E-08	2.24E-08	5.87E-10	0.00E+00	2.29E-08
1358	457371.8	3768000	1.934E-07	9.92E-09	0.00E+00	2.03E-07	1.93E-07	9.92E-09	0.00E+00	2.03E-07	5.79E-08	1.78E-09	0.00E+00	5.97E-08	2.19E-08	5.76E-10	0.00E+00	2.25E-08
1359	457361.9	3768000	1.889E-07	9.69E-09	0.00E+00	1.99E-07	1.89E-07	9.69E-09	0.00E+00	1.99E-07	5.66E-08	1.74E-09	0.00E+00	5.83E-08	2.14E-08	5.62E-10	0.00E+00	2.20E-08
1360	457351.9	3768000	1.833E-07	9.40E-09	0.00E+00	1.93E-07	1.83E-07	9.40E-09	0.00E+00	1.93E-07	5.49E-08	1.69E-09	0.00E+00	5.66E-08	2.08E-08	5.45E-10	0.00E+00	2.13E-08
1361	457342	3768000	1.767E-07	9.06E-09	0.00E+00	1.86E-07	1.77E-07	9.06E-09	0.00E+00	1.86E-07	5.29E-08	1.63E-09	0.00E+00	5.45E-08	2.00E-08	5.26E-10	0.00E+00	2.06E-08
1362	457332	3768000	1.69E-07	8.66E-09	0.00E+00	1.78E-07	1.69E-07	8.66E-09	0.00E+00	1.78E-07	5.06E-08	1.56E-09	0.00E+00	5.22E-08	1.92E-08	5.03E-10	0.00E+00	1.97E-08
1363	457690.2	3767990	8.63E-08	4.42E-09	0.00E+00	9.07E-08	8.63E-08	4.42E-09	0.00E+00	9.07E-08	2.58E-08	7.96E-10	0.00E+00	2.66E-08	9.79E-09	2.57E-10	0.00E+00	1.00E-08
1364	457680.2	3767990	9.42E-08	4.83E-09	0.00E+00	9.90E-08	9.42E-08	4.83E-09	0.00E+00	9.90E-08	2.82E-08	8.68E-10	0.00E+00	2.91E-08	1.07E-08	2.80E-10	0.00E+00	1.10E-08
1365	457670.3	3767990	1.025E-07	5.25E-09	0.00E+00	1.08E-07	1.02E-07	5.25E-09	0.00E+00	1.08E-07	3.07E-08	9.45E-10	0.00E+00	3.16E-08	1.16E-08	3.05E-10	0.00E+00	1.19E-08
1366	457660.3	3767990	1.109E-07	5.68E-09	0.00E+00	1.17E-07	1.11E-07	5.68E-09	0.00E+00	1.17E-07	3.32E-08	1.02E-09	0.00E+00	3.42E-08	1.26E-08	3.30E-10	0.00E+00	1.29E-08
1367	457650.4	3767990	1.193E-07	6.12E-09	0.00E+00	1.25E-07	1.19E-07	6.12E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
1368	457640.4	3767990	1.274E-07	6.53E-09	0.00E+00	1.34E-07	1.27E-07	6.53E-09	0.00E+00	1.34E-07	3.82E-08	1.17E-09	0.00E+00	3.93E-08	1.45E-08	3.79E-10	0.00E+00	1.48E-08
1369	457630.5	3767990	1.351E-07	6.92E-09	0.00E+00	1.42E-07	1.35E-07	6.92E-09	0.00E+00	1.42E-07	4.05E-08	1.25E-09	0.00E+00	4.17E-08	1.53E-08	4.02E-10	0.00E+00	1.57E-08
1370	457620.5	3767990	1.422E-07	7.29E-09	0.00E+00	1.49E-07	1.42E-07	7.29E-09	0.00E+00	1.49E-07	4.26E-08	1.31E-09	0.00E+00	4.39E-08	1.61E-08	4.23E-10	0.00E+00	1.66E-08
1371	457610.6	3767990	1.488E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.46E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
1372	457600.6	3767990	1.548E-07	7.94E-09	0.00E+00	1.63E-07	1.55E-07	7.94E-09	0.00E+00	1.63E-07	4.64E-08	1.43E-09	0.00E+00	4.78E-08	1.76E-08	4.61E-10	0.00E+00	1.80E-08
1373	457590.7	3767990	1.603E-07	8.22E-09	0.00E+00	1.68E-07	1.60E-07	8.22E-09	0.00E+00	1.68E-07	4.80E-08	1.48E-09	0.00E+00	4.95E-08	1.82E-08	4.77E-10	0.00E+00	1.87E-08
1374	457580.7	3767990	1.652E-07	8.47E-09	0.00E+00	1.74E-07	1.65E-07	8.47E-09	0.00E+00	1.74E-07	4.95E-08	1.52E-09	0.00E+00	5.10E-08	1.87E-08	4.92E-10	0.00E+00	1.92E-08
1375	457570.8	3767990	1.696E-07	8.69E-09	0.00E+00	1.78E-07	1.70E-07	8.69E-09	0.00E+00	1.78E-07	5.08E-08	1.56E-09	0.00E+00	5.24E-08	1.92E-08	5.05E-10	0.00E+00	1.97E-08
1376	457560.8	3767990	1.734E-07	8.89E-09	0.00E+00	1.82E-07	1.73E-07	8.89E-09	0.00E+00	1.82E-07	5.19E-08	1.60E-09	0.00E+00	5.35E-08	1.97E-08	5.16E-10	0.00E+00	2.02E-08
1377	457550.9	3767990	1.766E-07	9.05E-09	0.00E+00	1.86E-07	1.77E-07	9.05E-09	0.00E+00	1.86E-07	5.29E-08	1.63E-09	0.00E+00	5.45E-08	2.00E-08	5.26E-10	0.00E+00	2.06E-08
1378	457540.9	3767990	1.794E-07	9.20E-09	0.00E+00	1.89E-07	1.79E-07	9.20E-09	0.00E+00	1.89E-07	5.37E-08	1.65E-09	0.00E+00	5.54E-08	2.04E-08	5.34E-10	0.00E+00	2.09E-08
1379	457531	3767990	1.82E-07	9.33E-09	0.00E+00	1.91E-07	1.82E-07	9.33E-09	0.00E+00	1.91E-07	5.45E-08	1.68E-09	0.00E+00	5.62E-08	2.06E-08	5.42E-10	0.00E+00	2.12E-08
1380	457521.1	3767990	1.842E-07	9.44E-09	0.00E+00	1.94E-07	1.84E-07	9.44E-09	0.00E+00	1.94E-07	5.52E-08	1.70E-09	0.00E+00	5.69E-08	2.09E-08	5.48E-10	0.00E+00	2.14E-08
1381	457511.1	3767990	1.861E-07	9.54E-09	0.00E+00	1.96E-07	1.86E-07	9.54E-09	0.00E+00	1.96E-07	5.57E-08	1.72E-09	0.00E+00	5.75E-08	2.11E-08	5.54E-10	0.00E+00	2.17E-08
1382	457501.2	3767990	1.876E-07	9.62E-09	0.00E+00	1.97E-07	1.88E-07	9.62E-09	0.00E+00	1.97E-07	5.62E-08	1.73E-09	0.00E+00	5.79E-08	2.13E-08	5.58E-10	0.00E+00	2.18E-08
1383	457491.2	3767990	1.889E-07	9.68E-09	0.00E+00	1.99E-07	1.89E-07	9.68E-09	0.00E+00	1.99E-07	5.66E-08	1.74E-09	0.00E+00	5.83E-08	2.14E-08	5.62E-10	0.00E+00	2.20E-08
1384	457481.3	3767990	1.898E-07	9.73E-09	0.00E+00	2.00E-07	1.90E-07	9.73E-09	0.00E+00	2.00E-07	5.69E-08	1.75E-09	0.00E+00	5.86E-08	2.15E-08	5.65E-10	0.00E+00	2.21E-08
1385	457471.3	3767990	1.903E-07	9.75E-09	0.00E+00	2.00E-07	1.90E-07	9.75E-09	0.00E+00	2.00E-07	5.70E-08	1.75E-09	0.00E+00	5.87E-08	2.16E-08	5.66E-10	0.00E+00	2.22E-08
1386	457461.4	3767990	1.903E-07	9.76E-09	0.00E+00	2.00E-07	1.90E-07	9.76E-09	0.00E+00	2.00E-07	5.70E-08	1.75E-09	0.00E+00	5.88E-08	2.16E-08	5.66E-10	0.00E+00	2.22E-08
1387	457451.4	3767990	1.901E-07	9.74E-09	0.00E+00	2.00E-07	1.90E-07	9.74E-09	0.00E+00	2.00E-07	5.69E-08	1.75E-09	0.00E+00	5.87E-08	2.16E-08	5.66E-10	0.00E+00	2.21E-08
1388	457441.5	3767990	1.897E-07	9.73E-09	0.00E+00	1.99E-07	1.90E-07	9.73E-09	0.00E+00	1.99E-07	5.68E-08	1.75E-09	0.00E+00	5.86E-08	2.15E-08	5.65E-10	0.00E+00	2.21E-08
1389	457431.5	3767990	1.891E-07	9.70E-09	0.00E+00	1.99E-07	1.89E-07	9.70E-09	0.00E+00	1.99E-07	5.66E-08	1.74E-09	0.00E+00	5.84E-08	2.15E-08	5.63E-10	0.00E+00	2.20E-08
1390	457421.6	3767990	1.882E-07	9.65E-09	0.00E+00	1.98E-07	1.88E-07	9.65E-09	0.00E+00	1.98E-07	5.64E-08	1.73E-09	0.00E+00	5.81E-08	2.14E-08	5.60E-10	0.00E+00	2.19E-08
1391	457411.6	3767990	1.87E-07	9.59E-09	0.00E+00	1.97E-07	1.87E-07	9.59E-09	0.00E+00	1.97E-07	5.60E-08	1.72E-09	0.00E+00	5.77E-08	2.12E-08	5.56E-10	0.00E+00	2.18E-08
1392	457401.7	3767990	1.854E-07	9.50E-09	0.00E+00	1.95E-07	1.85E-07	9.50E-09	0.00E+00	1.95E-07	5.55E-08	1.71E-09	0.00E+00	5.72E-08	2.10E-08	5.52E-10	0.00E+00	2.16E-08
1393	457391.7	3767990	1.833E-07	9.40E-09	0.00E+00	1.93E-07	1.83E-07	9.40E-09	0.00E+00	1.93E-07	5.49E-08	1.69E-09	0.00E+00	5.66E-08	2.08E-08	5.45E-10	0.00E+00	2.13E-08
1394	457381.8	3767990	1.807E-07	9.26E-09	0.00E+00	1.90E-07	1.81E-07	9.26E-09	0.00E+00	1.90E-07	5.41E-08	1.67E-09	0.00E+00	5.58E-08	2.05E-08	5.38E-10	0.00E+00	2.10E-08
1395	457371.8	3767990	1.775E-07	9.10E-09	0.00E+00	1.87E-07	1.77E-07	9.10E-09	0.00E+00	1.87E-07	5.32E-08	1.64E-09	0.00E+00	5.48E-08	2.01E-08	5.28E-10	0.00E+00	2.07E-08
1396	457361.9	3767990	1.736E-07	8.90E-09	0.00E+00	1.82E-07	1.74E-07	8.90E-09	0.00E+00	1.82E-07	5.20E-08	1.60E-09	0.00E+00	5.36E-08	1.97E-08	5.16E-10	0.00E+00	2.02E-08
1397	457351.9	3767990	1.687E-07	8.65E-09	0.00E+00	1.77E-07	1.69E-07	8.65E-09	0.00E+00	1.77E-07	5.05E-08	1.55E-09	0.00E+00	5.21E-08	1.91E-08	5.02E-10	0.00E+00	1.96E-08
1398	457342	3767990	1.629E-07	8.35E-09	0.00E+00	1.71E-07	1.63E-07	8.35E-09	0.00E+00	1.71E-07	4.88E-08	1.50E-09	0.00E+00	5.03E-08	1.85E-08	4.85E-10	0.00E+00	1.90E-08
1399	457332	3767990	1.563E-07	8.02E-09	0.00E+00	1.64E-07	1.56E-07	8.02E-09	0.00E+00	1.64E-07	4.68E-08	1.44E-09	0.00E+00	4.83E-08	1.77E-08	4.65E-10	0.00E+00	1.82E-08
1400	457746.5	3768020	7.188E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
1401	457700.1	3767980	7.209E-08	3.70E-09	0.00E+00	7.58E-08	7.21E-08	3.70E-09	0.00E+00	7.58E-08	2.16E-08	6.65E-10	0.00E+00	2.23E-08	8.18E-09	2.15E-10	0.00E+00	8.39E-09
1402	457690.2	3767980	7.838E-08	4.02E-09	0.00E+00	8.24E-08	7.84E-08	4.02E-09	0.00E+00	8.24E-08	2.35E-08	7.23E-10	0.00E+00	2.42E-08	8.89E-09	2.33E-10	0.00E+00	9.13E-09
1403	457680.2	3767980	8.514E-08	4.36E-09	0.00E+00	8.95E-08	8.51E-08	4.36E-09	0.00E+00	8.95E-08	2.55E-08	7.85E-10	0.00E+00	2.63E-08	9.66E-09	2.53E-10	0.00E+00	9.91E-09
1404	457670.3	3767980	9.221E-08	4.73E-09	0.00E+00	9.69E-08	9.22E-08	4.73E-09	0.00E+00	9.69E-08	2.76E-08	8.50E-10	0.00E+00	2.85E-08	1.05E-08	2.74E-10	0.00E+00	1.07E-08
1405	457660.3	3767980	9.945E-08	5.10E-09	0.00E+00	1.05E-07	9.94E-08	5.10E-09	0.00E+00	1.05E-07	2.98E-08	9.17E-10	0.00E+00	3.07E-08	1.13E-08	2.96E-10	0.00E+00	1.16E-08
1406	457650.4	3767980	1.068E-07	5.47E-09	0.00E+00	1.12E-07	1.07E-07	5.47E-09	0.00E+00	1.12E-07	3.20E-08	9.84E-10	0.00E+00	3.30E-08	1.21E-08	3.18E-10	0.00E+00	1.24E-08
1407	457640.4	3767980	1.139E-07	5.84E-09	0.00E+00	1.20E-07	1.14E-07	5.84E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.39E-10	0.00E+00	1.33E-08
1408	457630.5	3767980	1.208E-07	6.19E-09	0.00E+00	1.27E-07	1.21E-07	6.19E-09	0.00E+00	1.27E-07	3.62E-08	1.11E-09	0.00E+00	3.73E-08	1.37E-08	3.59E-10	0.00E+00	1.41E-08
1409	457620.5	3767980	1.272E-07	6.52E-09	0.00E+00	1.34E-07	1.27E-07	6.52E-09	0.00E+00	1.34E-07	3.81E-08	1.17E-09	0.00E+00	3.93E-08	1.44E-08	3.78E-10	0.00E+00	1.48E-08
1410	457610.6	3767980	1.332E-07	6.83E-09	0.00E+00	1.40E-07	1.33E-07	6.83E-09	0.00E+00	1.40E-07	3.99E-08	1.23E-09	0.00E+00	4.11E-08	1.51E-08	3.96E-10	0.00E+00	1.55E-08
1411	457600.6	3767980	1.388E-07	7.12E-09	0.00E+00	1.46E-07	1.39E-07	7.12E-09	0.00E+00	1.46E-07	4.16E-08	1.28E-09	0.00E+00	4.29E-08	1.57E-08	4.13E-10	0.00E+00	1.62E-08
1412	457590.7	3767980	1.44E-07	7.38E-09	0.00E+00	1.51E-07	1.44E-07	7.38E-09	0.00E+00	1.51E-07	4.31E-08	1.33E-09	0.00E+00	4.44E-08	1.63E-08	4.28E-10	0.00E+00	1.68E-08
1413	457580.7	3767980	1.486E-07	7.62E-09	0.00E+00	1.56E-07	1.49E-07	7.62E-09	0.00E+00	1.56E-07	4.45E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.42E-10	0.00E+00	1.73E-08
1414	457570.8	3767980	1.529E-07	7.84E-09	0.00E+00	1.61E-07	1.53E-07	7.84E-09	0.00E+00	1.61E-07	4.58E-08	1.41E-09	0.00E+00	4.72E-08	1.73E-08	4.55E-10	0.00E+00	1.78E-08
1415	457560.8	3767980	1.565E-07	8.02E-09	0.00E+00	1.65E-07	1.57E-07	8.02E-09	0.00E+00	1.65E-07	4.69E-08	1.44E-09	0.00E+00	4.83E-08	1.78E-08	4.66E-10	0.00E+00	1.82E-08
1416	457550.9	3767980	1.597E-07	8.19E-09	0.00E+00	1.68E-07	1.60E-07	8.19E-09	0.00E+00	1.68E-07	4.78E-08	1.47E-09	0.00E+00	4.93E-08	1.81E-08	4.75E-10	0.00E+00	1.86E-08
1417	457540.9	3767980	1.625E-07	8.33E-09	0.00E+00	1.71E-07	1.63E-07	8.33E-09	0.00E+00	1.71E-07	4.87E-08	1.50E-09	0.00E+00	5.02E-08	1.84E-08	4.84E-10	0.00E+00	1.89E-08
1418	457531	3767980	1.651E-07	8.47E-09	0.00E+00	1.74E-07	1.65E-07	8.47E-09	0.00E+00	1.74E-07	4.95E-08	1.52E-09	0.00E+00	5.10E-08	1.87E-08	4.91E-10	0.00E+00	1.92E-08
1419	457521	3767980	1.674E-07	8.58E-09	0.00E+00	1.76E-07	1.67E-07	8.58E-09	0.00E+00	1.76E-07	5.01E-08	1.54E-09	0.00E+00	5.17E-08	1.90E-08	4.98E-10	0.00E+00	1.95E-08
1420	457511.1	3767980	1.694E-07	8.68E-09	0.00E+00	1.78E-07	1.69E-07	8.68E-09	0.00E+00	1.78E-07	5.07E-08	1.56E-09	0.00E+00	5.23E-08	1.92E-08	5.04E-10	0.00E+00	1.97E-08
1421	457501.1	3767980	1.71E-07	8.77E-09	0.00E+00	1.80E-07	1.71E-07	8.77E-09	0.00E+00	1.80E-07	5.12E-08	1.58E-09	0.00E+00	5.28E-08	1.94E-08	5.09E-10	0.00E+00	1.99E-08
1422	457491.2	3767980	1.723E-07	8.83E-09	0.00E+00	1.81E-07	1.72E-07	8.83E-09	0.00E+00	1.81E-07	5.16E-08	1.59E-09	0.00E+00	5.32E-08	1.95E-08	5.13E-10	0.00E+00	2.01E-08
1423	457481.2	3767980	1.733E-07	8.89E-09	0.00E+00	1.82E-07	1.73E-07	8.89E-09	0.00E+00	1.82E-07	5.19E-08	1.60E-09	0.00E+00	5.35E-08	1.97E-08	5.16E-10	0.00E+00	2.02E-08
1424	457471.3	3767980	1.739E-07	8.92E-09	0.00E+00	1.83E-07	1.74E-07	8.92E-09	0.00E+00	1.83E-07	5.21E-08	1.60E-09	0.00E+00	5.37E-08	1.97E-08	5.18E-10	0.00E+00	2.02E-08
1425	457461.3	3767980	1.742E-07	8.93E-09	0.00E+00	1.83E-07	1.74E-07	8.93E-09	0.00E+00	1.83E-07	5.22E-08	1.61E-09	0.00E+00	5.38E-08	1.98E-08	5.18E-10	0.00E+00	2.03E-08
1426	457451.4	3767980	1.742E-07	8.93E-09	0.00E+00	1.83E-07	1.74E-07	8.93E-09	0.00E+00	1.83E-07	5.22E-08	1.61E-09	0.00E+00	5.38E-08	1.98E-08	5.18E-10	0.00E+00	2.03E-08
1427	457441.4	3767980	1.741E-07	8.92E-09	0.00E+00	1.83E-07	1.74E-07	8.92E-09	0.00E+00	1.83E-07	5.21E-08	1.60E-09	0.00E+00	5.37E-08	1.97E-08	5.18E-10	0.00E+00	2.03E-08
1428	457431.5	3767980	1.737E-07	8.91E-09	0.00E+00	1.83E-07	1.74E-07	8.91E-09	0.00E+00	1.83E-07	5.20E-08	1.60E-09	0.00E+00	5.36E-08	1.97E-08	5.17E-10	0.00E+00	2.02E-08
1429	457421.5	3767980	1.73E-07	8.87E-09	0.00E+00	1.82E-07	1.73E-07	8.87E-09	0.00E+00	1.82E-07	5.18E-08	1.60E-09	0.00E+00	5.34E-08	1.96E-08	5.15E-10	0.00E+00	2.01E-08
1430	457411.6	3767980	1.721E-07	8.82E-09	0.00E+00	1.81E-07	1.72E-07	8.82E-09	0.00E+00	1.81E-07	5.15E-08	1.59E-09	0.00E+00	5.31E-08	1.95E-08	5.12E-10	0.00E+00	2.00E-08
1431	457401.6	3767980	1.707E-07	8.75E-09	0.00E+00	1.79E-07	1.71E-07	8.75E-09	0.00E+00	1.79E-07	5.11E-08	1.57E-09	0.00E+00	5.27E-08	1.94E-08	5.08E-10	0.00E+00	1.99E-08
1432	457391.7	3767980	1.689E-07	8.66E-09	0.00E+00	1.78E-07	1.69E-07	8.66E-09	0.00E+00	1.78E-07	5.06E-08	1.56E-09	0.00E+00	5.21E-08	1.92E-08	5.03E-10	0.00E+00	1.97E-08
1433	457381.8	3767980	1.666E-07	8.54E-09	0.00E+00	1.75E-07	1.67E-07	8.54E-09	0.00E+00	1.75E-07	4.99E-08	1.54E-09	0.00E+00	5.14E-08	1.89E-08	4.96E-10	0.00E+00	1.94E-08
1434	457371.8	3767980	1.637E-07	8.39E-09	0.00E+00	1.72E-07	1.64E-07	8.39E-09	0.00E+00	1.72E-07	4.90E-08	1.51E-09	0.00E+00	5.06E-08	1.86E-08	4.87E-10	0.00E+00	1.91E-08
1435	457361.9	3767980	1.603E-07	8.22E-09	0.00E+00	1.69E-07	1.60E-07	8.22E-09	0.00E+00	1.69E-07	4.80E-08	1.48E-09	0.00E+00	4.95E-08	1.82E-08	4.77E-10	0.00E+00	1.87E-08
1436	457351.9	3767980	1.561E-07	8.00E-09	0.00E+00	1.64E-07	1.56E-07	8.00E-09	0.00E+00	1.64E-07	4.67E-08	1.44E-09	0.00E+00	4.82E-08	1.77E-08	4.64E-10	0.00E+00	1.82E-08
1437	457342	3767980	1.512E-07	7.75E-09	0.00E+00	1.59E-07	1.51E-07	7.75E-09	0.00E+00	1.59E-07	4.53E-08	1.39E-09	0.00E+00	4.67E-08	1.72E-08	4.50E-10	0.00E+00	1.76E-08
1438	457332	3767980	1.456E-07	7.46E-09	0.00E+00	1.53E-07	1.46E-07	7.46E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.50E-08	1.65E-08	4.33E-10	0.00E+00	1.70E-08
1439	457745.9	3767995	5.721E-08	2.93E-09	0.00E+00	6.01E-08	5.72E-08	2.93E-09	0.00E+00	6.01E-08	1.71E-08	5.27E-10	0.00E+00	1.77E-08	6.49E-09	1.70E-10	0.00E+00	6.66E-09
1440	457749.5	3768004	5.998E-08	3.07E-09	0.00E+00	6.31E-08	6.00E-08	3.07E-09	0.00E+00	6.31E-08	1.80E-08	5.53E-10	0.00E+00	1.85E-08	6.80E-09	1.78E-10	0.00E+00	6.98E-09
1441	457756.6	3768021	6.711E-08	3.44E-09	0.00E+00	7.06E-08	6.71E-08	3.44E-09	0.00E+00	7.06E-08	2.01E-08	6.19E-10	0.00E+00	2.07E-08	7.61E-09	2.00E-10	0.00E+00	7.81E-09
1442	457700.1	3767970	6.628E-08	3.40E-09	0.00E+00	6.97E-08	6.63E-08	3.40E-09	0.00E+00	6.97E-08	1.99E-08	6.11E-10	0.00E+00	2.05E-08	7.52E-09	1.97E-10	0.00E+00	7.72E-09
1443	457690.2	3767970	7.175E-08	3.68E-09	0.00E+00	7.54E-08	7.18E-08	3.68E-09	0.00E+00	7.54E-08	2.15E-08	6.61E-10	0.00E+00	2.22E-08	8.14E-09	2.14E-10	0.00E+00	8.35E-09
1444	457680.2	3767970	7.761E-08	3.98E-09	0.00E+00	8.16E-08	7.76E-08	3.98E-09	0.00E+00	8.16E-08	2.32E-08	7.15E-10	0.00E+00	2.40E-08	8.80E-09	2.31E-10	0.00E+00	9.04E-09
1445	457670.3	3767970	8.375E-08	4.29E-09	0.00E+00	8.80E-08	8.38E-08	4.29E-09	0.00E+00	8.80E-08	2.51E-08	7.72E-10	0.00E+00	2.59E-08	9.50E-09	2.49E-10	0.00E+00	9.75E-09
1446	457660.3	3767970	9.006E-08	4.62E-09	0.00E+00	9.47E-08	9.01E-08	4.62E-09	0.00E+00	9.47E-08	2.70E-08	8.30E-10	0.00E+00	2.78E-08	1.02E-08	2.68E-10	0.00E+00	1.05E-08
1447	457650.4	3767970	9.65E-08	4.95E-09	0.00E+00	1.01E-07	9.65E-08	4.95E-09	0.00E+00	1.01E-07	2.89E-08	8.90E-10	0.00E+00	2.98E-08	1.09E-08	2.87E-10	0.00E+00	1.12E-08
1448	457640.4	3767970	1.028E-07	5.27E-09	0.00E+00	1.08E-07	1.03E-07	5.27E-09	0.00E+00	1.08E-07	3.08E-08	9.48E-10	0.00E+00	3.17E-08	1.17E-08	3.06E-10	0.00E+00	1.20E-08
1449	457630.5	3767970	1.089E-07	5.58E-09	0.00E+00	1.15E-07	1.09E-07	5.58E-09	0.00E+00	1.15E-07	3.26E-08	1.00E-09	0.00E+00	3.36E-08	1.24E-08	3.24E-10	0.00E+00	1.27E-08
1450	457620.5	3767970	1.148E-07	5.88E-09	0.00E+00	1.21E-07	1.15E-07	5.88E-09	0.00E+00	1.21E-07	3.44E-08	1.06E-09	0.00E+00	3.54E-08	1.30E-08	3.41E-10	0.00E+00	1.34E-08
1451	457610.6	3767970	1.203E-07	6.17E-09	0.00E+00	1.26E-07	1.20E-07	6.17E-09	0.00E+00	1.26E-07	3.60E-08	1.11E-09	0.00E+00	3.71E-08	1.36E-08	3.58E-10	0.00E+00	1.40E-08
1452	457600.6	3767970	1.255E-07	6.43E-09	0.00E+00	1.32E-07	1.25E-07	6.43E-09	0.00E+00	1.32E-07	3.76E-08	1.16E-09	0.00E+00	3.87E-08	1.42E-08	3.73E-10	0.00E+00	1.46E-08
1453	457590.7	3767970	1.303E-07	6.68E-09	0.00E+00	1.37E-07	1.30E-07	6.68E-09	0.00E+00	1.37E-07	3.90E-08	1.20E-09	0.00E+00	4.02E-08	1.48E-08	3.88E-10	0.00E+00	1.52E-08

1454	457580.7	3767970	1.347E-07	6.90E-09	0.00E+00	1.42E-07	1.35E-07	6.90E-09	0.00E+00	1.42E-07	4.03E-08	1.24E-09	0.00E+00	4.16E-08	1.53E-08	4.01E-10	0.00E+00	1.57E-08
1455	457570.8	3767970	1.387E-07	7.11E-09	0.00E+00	1.46E-07	1.39E-07	7.11E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.13E-10	0.00E+00	1.62E-08
1456	457560.8	3767970	1.423E-07	7.29E-09	0.00E+00	1.50E-07	1.42E-07	7.29E-09	0.00E+00	1.50E-07	4.26E-08	1.31E-09	0.00E+00	4.39E-08	1.61E-08	4.23E-10	0.00E+00	1.66E-08
1457	457550.9	3767970	1.454E-07	7.46E-09	0.00E+00	1.53E-07	1.45E-07	7.46E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.49E-08	1.65E-08	4.33E-10	0.00E+00	1.69E-08
1458	457540.9	3767970	1.482E-07	7.60E-09	0.00E+00	1.56E-07	1.48E-07	7.60E-09	0.00E+00	1.56E-07	4.44E-08	1.37E-09	0.00E+00	4.58E-08	1.68E-08	4.41E-10	0.00E+00	1.73E-08
1459	457531	3767970	1.508E-07	7.73E-09	0.00E+00	1.59E-07	1.51E-07	7.73E-09	0.00E+00	1.59E-07	4.52E-08	1.39E-09	0.00E+00	4.66E-08	1.71E-08	4.49E-10	0.00E+00	1.76E-08
1460	457521	3767970	1.531E-07	7.85E-09	0.00E+00	1.61E-07	1.53E-07	7.85E-09	0.00E+00	1.61E-07	4.59E-08	1.41E-09	0.00E+00	4.73E-08	1.74E-08	4.56E-10	0.00E+00	1.78E-08
1461	457511.1	3767970	1.551E-07	7.95E-09	0.00E+00	1.63E-07	1.55E-07	7.95E-09	0.00E+00	1.63E-07	4.65E-08	1.43E-09	0.00E+00	4.79E-08	1.76E-08	4.62E-10	0.00E+00	1.81E-08
1462	457501.1	3767970	1.567E-07	8.04E-09	0.00E+00	1.65E-07	1.57E-07	8.04E-09	0.00E+00	1.65E-07	4.69E-08	1.44E-09	0.00E+00	4.84E-08	1.78E-08	4.66E-10	0.00E+00	1.82E-08
1463	457491.2	3767970	1.58E-07	8.10E-09	0.00E+00	1.66E-07	1.58E-07	8.10E-09	0.00E+00	1.66E-07	4.73E-08	1.46E-09	0.00E+00	4.88E-08	1.79E-08	4.70E-10	0.00E+00	1.84E-08
1464	457481.2	3767970	1.591E-07	8.15E-09	0.00E+00	1.67E-07	1.59E-07	8.15E-09	0.00E+00	1.67E-07	4.76E-08	1.47E-09	0.00E+00	4.91E-08	1.80E-08	4.73E-10	0.00E+00	1.85E-08
1465	457471.3	3767970	1.599E-07	8.19E-09	0.00E+00	1.68E-07	1.60E-07	8.19E-09	0.00E+00	1.68E-07	4.79E-08	1.47E-09	0.00E+00	4.94E-08	1.81E-08	4.76E-10	0.00E+00	1.86E-08
1466	457461.3	3767970	1.604E-07	8.22E-09	0.00E+00	1.69E-07	1.60E-07	8.22E-09	0.00E+00	1.69E-07	4.80E-08	1.48E-09	0.00E+00	4.95E-08	1.82E-08	4.77E-10	0.00E+00	1.87E-08
1467	457451.4	3767970	1.606E-07	8.23E-09	0.00E+00	1.69E-07	1.61E-07	8.23E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.96E-08	1.82E-08	4.78E-10	0.00E+00	1.87E-08
1468	457441.4	3767970	1.606E-07	8.24E-09	0.00E+00	1.69E-07	1.61E-07	8.24E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.96E-08	1.82E-08	4.78E-10	0.00E+00	1.87E-08
1469	457431.5	3767970	1.605E-07	8.23E-09	0.00E+00	1.69E-07	1.60E-07	8.23E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.95E-08	1.82E-08	4.77E-10	0.00E+00	1.87E-08
1470	457421.5	3767970	1.6E-07	8.20E-09	0.00E+00	1.68E-07	1.60E-07	8.20E-09	0.00E+00	1.68E-07	4.79E-08	1.47E-09	0.00E+00	4.94E-08	1.81E-08	4.76E-10	0.00E+00	1.86E-08
1471	457411.6	3767970	1.592E-07	8.16E-09	0.00E+00	1.67E-07	1.59E-07	8.16E-09	0.00E+00	1.67E-07	4.77E-08	1.47E-09	0.00E+00	4.91E-08	1.81E-08	4.74E-10	0.00E+00	1.85E-08
1472	457401.6	3767970	1.58E-07	8.10E-09	0.00E+00	1.66E-07	1.58E-07	8.10E-09	0.00E+00	1.66E-07	4.73E-08	1.46E-09	0.00E+00	4.88E-08	1.79E-08	4.70E-10	0.00E+00	1.84E-08
1473	457391.7	3767970	1.565E-07	8.02E-09	0.00E+00	1.64E-07	1.56E-07	8.02E-09	0.00E+00	1.64E-07	4.69E-08	1.44E-09	0.00E+00	4.83E-08	1.78E-08	4.66E-10	0.00E+00	1.82E-08
1474	457381.7	3767970	1.544E-07	7.92E-09	0.00E+00	1.62E-07	1.54E-07	7.92E-09	0.00E+00	1.62E-07	4.62E-08	1.42E-09	0.00E+00	4.77E-08	1.75E-08	4.59E-10	0.00E+00	1.80E-08
1475	457371.8	3767970	1.518E-07	7.78E-09	0.00E+00	1.60E-07	1.52E-07	7.78E-09	0.00E+00	1.60E-07	4.55E-08	1.40E-09	0.00E+00	4.69E-08	1.72E-08	4.52E-10	0.00E+00	1.77E-08
1476	457361.8	3767970	1.488E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.46E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
1477	457351.9	3767970	1.451E-07	7.44E-09	0.00E+00	1.53E-07	1.45E-07	7.44E-09	0.00E+00	1.53E-07	4.35E-08	1.34E-09	0.00E+00	4.48E-08	1.65E-08	4.32E-10	0.00E+00	1.69E-08
1478	457341.9	3767970	1.41E-07	7.23E-09	0.00E+00	1.48E-07	1.41E-07	7.23E-09	0.00E+00	1.48E-07	4.22E-08	1.30E-09	0.00E+00	4.35E-08	1.60E-08	4.20E-10	0.00E+00	1.64E-08
1479	457332	3767970	1.363E-07	6.99E-09	0.00E+00	1.43E-07	1.36E-07	6.99E-09	0.00E+00	1.43E-07	4.08E-08	1.26E-09	0.00E+00	4.21E-08	1.55E-08	4.06E-10	0.00E+00	1.59E-08
1480	457752.8	3767988	5.152E-08	2.64E-09	0.00E+00	5.42E-08	5.15E-08	2.64E-09	0.00E+00	5.42E-08	1.54E-08	4.75E-10	0.00E+00	1.59E-08	5.85E-09	1.53E-10	0.00E+00	6.00E-09
1481	457759.8	3768004	5.639E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.57E-09
1482	457690.1	3767960	6.613E-08	3.39E-09	0.00E+00	6.95E-08	6.61E-08	3.39E-09	0.00E+00	6.95E-08	1.98E-08	6.10E-10	0.00E+00	2.04E-08	7.50E-09	1.97E-10	0.00E+00	7.70E-09
1483	457680.2	3767960	7.126E-08	3.65E-09	0.00E+00	7.49E-08	7.13E-08	3.65E-09	0.00E+00	7.49E-08	2.13E-08	6.57E-10	0.00E+00	2.20E-08	8.09E-09	2.12E-10	0.00E+00	8.30E-09
1484	457670.2	3767960	7.666E-08	3.93E-09	0.00E+00	8.06E-08	7.67E-08	3.93E-09	0.00E+00	8.06E-08	2.30E-08	7.07E-10	0.00E+00	2.37E-08	8.70E-09	2.28E-10	0.00E+00	8.93E-09
1485	457660.3	3767960	8.22E-08	4.21E-09	0.00E+00	8.64E-08	8.22E-08	4.21E-09	0.00E+00	8.64E-08	2.46E-08	7.58E-10	0.00E+00	2.54E-08	9.33E-09	2.45E-10	0.00E+00	9.57E-09
1486	457650.3	3767960	8.789E-08	4.51E-09	0.00E+00	9.24E-08	8.79E-08	4.51E-09	0.00E+00	9.24E-08	2.63E-08	8.10E-10	0.00E+00	2.71E-08	9.97E-09	2.62E-10	0.00E+00	1.02E-08
1487	457640.4	3767960	9.352E-08	4.79E-09	0.00E+00	9.83E-08	9.35E-08	4.79E-09	0.00E+00	9.83E-08	2.80E-08	8.62E-10	0.00E+00	2.89E-08	1.06E-08	2.78E-10	0.00E+00	1.09E-08
1488	457630.4	3767960	9.901E-08	5.08E-09	0.00E+00	1.04E-07	9.90E-08	5.08E-09	0.00E+00	1.04E-07	2.97E-08	9.13E-10	0.00E+00	3.06E-08	1.12E-08	2.95E-10	0.00E+00	1.15E-08
1489	457620.5	3767960	1.043E-07	5.35E-09	0.00E+00	1.10E-07	1.04E-07	5.35E-09	0.00E+00	1.10E-07	3.12E-08	9.61E-10	0.00E+00	3.22E-08	1.18E-08	3.10E-10	0.00E+00	1.21E-08
1490	457610.5	3767960	1.094E-07	5.61E-09	0.00E+00	1.15E-07	1.09E-07	5.61E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.25E-10	0.00E+00	1.27E-08
1491	457600.6	3767960	1.142E-07	5.85E-09	0.00E+00	1.20E-07	1.14E-07	5.85E-09	0.00E+00	1.20E-07	3.42E-08	1.05E-09	0.00E+00	3.52E-08	1.30E-08	3.40E-10	0.00E+00	1.33E-08
1492	457590.6	3767960	1.186E-07	6.08E-09	0.00E+00	1.25E-07	1.19E-07	6.08E-09	0.00E+00	1.25E-07	3.55E-08	1.09E-09	0.00E+00	3.66E-08	1.35E-08	3.53E-10	0.00E+00	1.38E-08
1493	457580.7	3767960	1.228E-07	6.30E-09	0.00E+00	1.29E-07	1.23E-07	6.30E-09	0.00E+00	1.29E-07	3.68E-08	1.13E-09	0.00E+00	3.79E-08	1.39E-08	3.65E-10	0.00E+00	1.43E-08
1494	457570.7	3767960	1.266E-07	6.49E-09	0.00E+00	1.33E-07	1.27E-07	6.49E-09	0.00E+00	1.33E-07	3.79E-08	1.17E-09	0.00E+00	3.91E-08	1.44E-08	3.77E-10	0.00E+00	1.47E-08
1495	457560.8	3767960	1.301E-07	6.67E-09	0.00E+00	1.37E-07	1.30E-07	6.67E-09	0.00E+00	1.37E-07	3.90E-08	1.20E-09	0.00E+00	4.02E-08	1.48E-08	3.87E-10	0.00E+00	1.51E-08
1496	457550.9	3767960	1.331E-07	6.83E-09	0.00E+00	1.40E-07	1.33E-07	6.83E-09	0.00E+00	1.40E-07	3.99E-08	1.23E-09	0.00E+00	4.11E-08	1.51E-08	3.96E-10	0.00E+00	1.55E-08
1497	457540.9	3767960	1.359E-07	6.97E-09	0.00E+00	1.43E-07	1.36E-07	6.97E-09	0.00E+00	1.43E-07	4.07E-08	1.25E-09	0.00E+00	4.20E-08	1.54E-08	4.04E-10	0.00E+00	1.58E-08
1498	457531	3767960	1.384E-07	7.10E-09	0.00E+00	1.46E-07	1.38E-07	7.10E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.27E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
1499	457521	3767960	1.407E-07	7.22E-09	0.00E+00	1.48E-07	1.41E-07	7.22E-09	0.00E+00	1.48E-07	4.22E-08	1.30E-09	0.00E+00	4.35E-08	1.60E-08	4.19E-10	0.00E+00	1.64E-08
1500	457511.1	3767960	1.428E-07	7.32E-09	0.00E+00	1.50E-07	1.43E-07	7.32E-09	0.00E+00	1.50E-07	4.28E-08	1.32E-09	0.00E+00	4.41E-08	1.62E-08	4.25E-10	0.00E+00	1.66E-08
1501	457501.1	3767960	1.444E-07	7.40E-09	0.00E+00	1.52E-07	1.44E-07	7.40E-09	0.00E+00	1.52E-07	4.32E-08	1.33E-09	0.00E+00	4.46E-08	1.64E-08	4.30E-10	0.00E+00	1.68E-08
1502	457491.2	3767960	1.457E-07	7.47E-09	0.00E+00	1.53E-07	1.46E-07	7.47E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.50E-08	1.65E-08	4.33E-10	0.00E+00	1.70E-08
1503	457481.2	3767960	1.467E-07	7.52E-09	0.00E+00	1.54E-07	1.47E-07	7.52E-09	0.00E+00	1.54E-07	4.39E-08	1.35E-09	0.00E+00	4.53E-08	1.66E-08	4.37E-10	0.00E+00	1.71E-08
1504	457471.3	3767960	1.476E-07	7.57E-09	0.00E+00	1.55E-07	1.48E-07	7.57E-09	0.00E+00	1.55E-07	4.42E-08	1.36E-09	0.00E+00	4.56E-08	1.67E-08	4.39E-10	0.00E+00	1.72E-08
1505	457461.3	3767960	1.483E-07	7.60E-09	0.00E+00	1.56E-07	1.48E-07	7.60E-09	0.00E+00	1.56E-07	4.44E-08	1.37E-09	0.00E+00	4.58E-08	1.68E-08	4.41E-10	0.00E+00	1.73E-08
1506	457451.4	3767960	1.487E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.45E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
1507	457441.4	3767960	1.489E-07	7.63E-09	0.00E+00	1.57E-07	1.49E-07	7.63E-09	0.00E+00	1.57E-07	4.46E-08	1.37E-09	0.00E+00	4.60E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
1508	457431.5	3767960	1.489E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.46E-08	1.37E-09	0.00E+00	4.60E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
1509	457421.5	3767960	1.485E-07	7.61E-09	0.00E+00	1.56E-07	1.49E-07	7.61E-09	0.00E+00	1.56E-07	4.45E-08	1.37E-09	0.00E+00	4.58E-08	1.68E-08	4.42E-10	0.00E+00	1.73E-08
1510	457411.6	3767960	1.479E-07	7.58E-09	0.00E+00	1.55E-07	1.48E-07	7.58E-09	0.00E+00	1.55E-07	4.43E-08	1.36E-09	0.00E+00	4.57E-08	1.68E-08	4.40E-10	0.00E+00	1.72E-08
1511	457401.6	3767960	1.469E-07	7.53E-09	0.00E+00	1.54E-07	1.47E-07	7.53E-09	0.00E+00	1.54E-07	4.40E-08	1.35E-09	0.00E+00	4.54E-08	1.67E-08	4.37E-10	0.00E+00	1.71E-08
1512	457391.7	3767960	1.456E-07	7.46E-09	0.00E+00	1.53E-07	1.46E-07	7.46E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.49E-08	1.65E-08	4.33E-10	0.00E+00	1.69E-08
1513	457381.7	3767960	1.437E-07	7.37E-09	0.00E+00	1.51E-07	1.44E-07	7.37E-09	0.00E+00	1.51E-07	4.30E-08	1.32E-09	0.00E+00	4.44E-08	1.63E-08	4.28E-10	0.00E+00	1.67E-08
1514	457371.8	3767960	1.414E-07	7.25E-09	0.00E+00	1.49E-07	1.41E-07	7.25E-09	0.00E+00	1.49E-07	4.24E-08	1.30E-09	0.00E+00	4.37E-08	1.60E-08	4.21E-10	0.00E+00	1.65E-08
1515	457361.8	3767960	1.386E-07	7.11E-09	0.00E+00	1.46E-07	1.39E-07	7.11E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.13E-10	0.00E+00	1.61E-08
1516	457351.9	3767960	1.356E-07	6.95E-09	0.00E+00	1.42E-07	1.36E-07	6.95E-09	0.00E+00	1.42E-07	4.06E-08	1.25E-09	0.00E+00	4.18E-08	1.54E-08	4.03E-10	0.00E+00	1.58E-08
1517	457341.9	3767960	1.32E-07	6.77E-09	0.00E+00	1.39E-07	1.32E-07	6.77E-09	0.00E+00	1.39E-07	3.95E-08	1.22E-09	0.00E+00	4.08E-08	1.50E-08	3.93E-10	0.00E+00	1.54E-08
1518	457332	3767960	1.28E-07	6.56E-09	0.00E+00	1.35E-07	1.28E-07	6.56E-09	0.00E+00	1.35E-07	3.83E-08	1.18E-09	0.00E+00	3.95E-08	1.45E-08	3.81E-10	0.00E+00	1.49E-08
1519	457759.8	3767981	4.675E-08	2.40E-09	0.00E+00	4.92E-08	4.68E-08	2.40E-09	0.00E+00	4.92E-08	1.40E-08	4.31E-10	0.00E+00	1.44E-08	5.30E-09	1.39E-10	0.00E+00	5.44E-09
1520	457766.6	3767997	5.076E-08	2.60E-09	0.00E+00	5.34E-08	5.08E-08	2.60E-09	0.00E+00	5.34E-08	1.52E-08	4.68E-10	0.00E+00	1.57E-08	5.76E-09	1.51E-10	0.00E+00	5.91E-09
1521	457773.4	3768013	5.605E-08	2.87E-09	0.00E+00	5.89E-08	5.61E-08	2.87E-09	0.00E+00	5.89E-08	1.68E-08	5.17E-10	0.00E+00	1.73E-08	6.36E-09	1.67E-10	0.00E+00	6.53E-09
1522	457690.1	3767950	6.129E-08	3.14E-09	0.00E+00	6.44E-08	6.13E-08	3.14E-09	0.00E+00	6.44E-08	1.84E-08	5.65E-10	0.00E+00	1.89E-08	6.95E-09	1.82E-10	0.00E+00	7.14E-09
1523	457680.2	3767950	6.585E-08	3.38E-09	0.00E+00	6.92E-08	6.59E-08	3.38E-09	0.00E+00	6.92E-08	1.97E-08	6.07E-10	0.00E+00	2.03E-08	7.47E-09	1.96E-10	0.00E+00	7.67E-09
1524	457670.2	3767950	7.064E-08	3.62E-09	0.00E+00	7.43E-08	7.06E-08	3.62E-09	0.00E+00	7.43E-08	2.12E-08	6.51E-10	0.00E+00	2.18E-08	8.01E-09	2.10E-10	0.00E+00	8.22E-09
1525	457660.3	3767950	7.557E-08	3.87E-09	0.00E+00	7.94E-08	7.56E-08	3.87E-09	0.00E+00	7.94E-08	2.26E-08	6.97E-10	0.00E+00	2.33E-08	8.57E-09	2.25E-10	0.00E+00	8.80E-09
1526	457650.3	3767950	8.063E-08	4.13E-09	0.00E+00	8.48E-08	8.06E-08	4.13E-09	0.00E+00	8.48E-08	2.41E-08	7.43E-10	0.00E+00	2.49E-08	9.15E-09	2.40E-10	0.00E+00	9.39E-09
1527	457640.4	3767950	8.564E-08	4.39E-09	0.00E+00	9.00E-08	8.56E-08	4.39E-09	0.00E+00	9.00E-08	2.57E-08	7.89E-10	0.00E+00	2.64E-08	9.72E-09	2.55E-10	0.00E+00	9.97E-09
1528	457630.4	3767950	9.059E-08	4.64E-09	0.00E+00	9.52E-08	9.06E-08	4.64E-09	0.00E+00	9.52E-08	2.71E-08	8.35E-10	0.00E+00	2.80E-08	1.03E-08	2.70E-10	0.00E+00	1.05E-08
1529	457620.5	3767950	9.54E-08	4.89E-09	0.00E+00	1.00E-07	9.54E-08	4.89E-09	0.00E+00	1.00E-07	2.86E-08	8.79E-10	0.00E+00	2.95E-08	1.08E-08	2.84E-10	0.00E+00	1.11E-08
1530	457610.5	3767950	1E-07	5.13E-09	0.00E+00	1.05E-07	1.00E-07	5.13E-09	0.00E+00	1.05E-07	3.00E-08	9.22E-10	0.00E+00	3.09E-08	1.13E-08	2.98E-10	0.00E+00	1.16E-08
1531	457600.6	3767950	1.045E-07	5.36E-09	0.00E+00	1.10E-07	1.04E-07	5.36E-09	0.00E+00	1.10E-07	3.13E-08	9.63E-10	0.00E+00	3.23E-08	1.19E-08	3.11E-10	0.00E+00	1.22E-08
1532	457590.6	3767950	1.086E-07	5.57E-09	0.00E+00	1.14E-07	1.09E-07	5.57E-09	0.00E+00	1.14E-07	3.25E-08	1.00E-09	0.00E+00	3.35E-08	1.23E-08	3.23E-10	0.00E+00	1.26E-08
1533	457580.7	3767950	1.125E-07	5.77E-09	0.00E+00	1.18E-07	1.13E-07	5.77E-09	0.00E+00	1.18E-07	3.37E-08	1.04E-09	0.00E+00	3.47E-08	1.28E-08	3.35E-10	0.00E+00	1.31E-08
1534	457570.7	3767950	1.161E-07	5.95E-09	0.00E+00	1.22E-07	1.16E-07	5.95E-09	0.00E+00	1.22E-07	3.48E-08	1.07E-09	0.00E+00	3.59E-08	1.32E-08	3.46E-10	0.00E+00	1.35E-08
1535	457560.8	3767950	1.194E-07	6.12E-09	0.00E+00	1.26E-07	1.19E-07	6.12E-09	0.00E+00	1.26E-07	3.58E-08	1.10E-09	0.00E+00	3.69E-08	1.36E-08	3.55E-10	0.00E+00	1.39E-08
1536	457550.8	3767950	1.224E-07	6.28E-09	0.00E+00	1.29E-07	1.22E-07	6.28E-09	0.00E+00	1.29E-07	3.67E-08	1.13E-09	0.00E+00	3.78E-08	1.39E-08	3.64E-10	0.00E+00	1.43E-08
1537	457540.9	3767950	1.251E-07	6.42E-09	0.00E+00	1.32E-07	1.25E-07	6.42E-09	0.00E+00	1.32E-07	3.75E-08	1.15E-09	0.00E+00	3.86E-08	1.42E-08	3.72E-10	0.00E+00	1.46E-08
1538	457530.9	3767950	1.277E-07	6.54E-09	0.00E+00	1.34E-07	1.28E-07	6.54E-09	0.00E+00	1.34E-07	3.82E-08	1.18E-09	0.00E+00	3.94E-08	1.45E-08	3.80E-10	0.00E+00	1.49E-08
1539	457521	3767950	1.299E-07	6.66E-09	0.00E+00	1.37E-07	1.30E-07	6.66E-09	0.00E+00	1.37E-07	3.89E-08	1.20E-09	0.00E+00	4.01E-08	1.47E-08	3.87E-10	0.00E+00	1.51E-08
1540	457511	3767950	1.319E-07	6.76E-09	0.00E+00	1.39E-07	1.32E-07	6.76E-09	0.00E+00	1.39E-07	3.95E-08	1.22E-09	0.00E+00	4.07E-08	1.50E-08	3.93E-10	0.00E+00	1.54E-08
1541	457501.1	3767950	1.336E-07	6.85E-09	0.00E+00	1.40E-07	1.34E-07	6.85E-09	0.00E+00	1.40E-07	4.00E-08	1.23E-09	0.00E+00	4.12E-08	1.52E-08	3.97E-10	0.00E+00	1.55E-08
1542	457491.1	3767950	1.349E-07	6.92E-09	0.00E+00	1.42E-07	1.35E-07	6.92E-09	0.00E+00	1.42E-07	4.04E-08	1.24E-09	0.00E+00	4.16E-08	1.53E-08	4.01E-10	0.00E+00	1.57E-08
1543	457481.2	3767950	1.36E-07	6.97E-09	0.00E+00	1.43E-07	1.36E-07	6.97E-09	0.00E+00	1.43E-07	4.07E-08	1.25E-09	0.00E+00	4.20E-08	1.54E-08	4.05E-10	0.00E+00	1.58E-08
1544	457471.2	3767950	1.37E-07	7.02E-09	0.00E+00	1.44E-07	1.37E-07	7.02E-09	0.00E+00	1.44E-07	4.10E-08	1.26E-09	0.00E+00	4.23E-08	1.55E-08	4.08E-10	0.00E+00	1.59E-08
1545	457461.3	3767950	1.377E-07	7.06E-09	0.00E+00	1.45E-07	1.38E-07	7.06E-09	0.00E+00	1.45E-07	4.13E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
1546	457451.3	3767950	1.383E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.27E-09	0.00E+00	4.27E-08	1.57E-08	4.11E-10	0.00E+00	1.61E-08
1547	457441.4	3767950	1.386E-07	7.10E-09	0.00E+00	1.46E-07	1.39E-07	7.10E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
1548	457431.4	3767950	1.386E-07	7.11E-09	0.00E+00	1.46E-07	1.39E-07	7.11E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
1549	457421.5	3767950	1.384E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.28E-09	0.00E+00	4.27E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
1550	457411.6	3767950	1.378E-07	7.07E-09	0.00E+00	1.45E-07	1.38E-07	7.07E-09	0.00E+00	1.45E-07	4.13E-08	1.27E-09	0.00E+00	4.26E-08	1.56E-08	4.10E-10	0.00E+00	1.60E-08
1551	457401.6	3767950	1.37E-07	7.02E-09	0.00E+00	1.44E-07	1.37E-07	7.02E-09	0.00E+00	1.44E-07	4.10E-08	1.26E-09	0.00E+00	4.23E-08	1.55E-08	4.08E-10	0.00E+00	1.60E-08
1552	457391.7	3767950	1.358E-07	6.96E-09	0.00E+00	1.43E-07	1.36E-07	6.96E-09	0.00E+00	1.43E-07	4.07E-08	1.25E-09	0.00E+00	4.19E-08	1.54E-08	4.04E-10	0.00E+00	1.58E-08
1553	457381.7	3767950	1.342E-07	6.88E-09	0.00E+00	1.41E-07	1.34E-07	6.88E-09	0.00E+00	1.41E-07	4.02E-08	1.24E-09	0.00E+00	4.14E-08	1.52E-08	3.99E-10	0.00E+00	1.56E-08
1554	457371.8	3767950	1.322E-07	6.78E-09	0.00E+00	1.39E-07	1.32E-07	6.78E-09	0.00E+00	1.39E-07	3.96E-08	1.22E-09	0.00E+00	4.08E-08	1.50E-08	3.93E-10	0.00E+00	1.54E-08
1555	457361.8	3767950	1.298E-07	6.66E-09	0.00E+00	1.36E-07	1.30E-07	6.66E-09	0.00E+00	1.36E-07	3.89E-08	1.20E-09	0.00E+00	4.01E-08	1.47E-08	3.86E-10	0.00E+00	1.51E-08
1556	457351.9	3767950	1.272E-07	6.52E-09	0.00E+00	1.34E-07	1.27E-07	6.52E-09	0.00E+00	1.34E-07	3.81E-08	1.17E-09	0.00E+00	3.93E-08	1.44E-08	3.78E-10	0.00E+00	1.48E-08
1557	457341.9	3767950	1.241E-07	6.36E-09	0.00E+00	1.30E-07	1.24E-07	6.36E-09	0.00E+00	1.30E-07	3.72E-08	1.14E-09	0.00E+00	3.83E-08	1.41E-08	3.69E-10	0.00E+00	1.45E-08
1558	457332	3767950	1.207E-07	6.19E-09	0.00E+00	1.27E-07	1.21E-07	6.19E-09	0.00E+00	1.27E-07	3.61E-08	1.11E-09	0.00E+00	3.73E-08	1.37E-08	3.59E-10	0.00E+00	1.40E-08
1559	457754.4	3767962	4.256E-08	2.18E-09	0.00E+00	4.47E-08	4.26E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.83E-09	1.27E-10	0.00E+00	4.95E-09
1560	457767.2	3767975	4.29E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.87E-09	1.28E-10	0.00E+00	4.99E-09
1561	457771.1	3767984	4.474E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
1562	457774.9	3767993	4.688E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.40E-10	0.00E+00	5.46E-09
1563	457778.7	3768002	4.937E-08	2.53E-09	0.00E+00	5.19E-08	4.94E-08	2.53E-09	0.00E+00	5.19E-08	1.48E-08	4.55E-10	0.00E+00	1.52E-08	5.60E-09	1.47E-10	0.00E+00	5.75E-09
1564	457782.5	3768011	5.224E-08	2.68E-09	0.00E+00	5.49E-08	5.22E-08	2.68E-09	0.00E+00	5.49E-08	1.56E-08	4.82E-10	0.00E+00	1.61E-08	5.93E-09	1.55E-10	0.00E+00	6.08E-09
1565	457786.4	3768020	5.55E-08	2.85E-09	0.00E+00	5.83E-08	5.55E-08	2.85E-09	0.00E+00	5.83E-08	1.66E-08	5.12E-10	0.00E+00	1.71E-08	6.30E-09	1.65E-10	0.00E+00	6.46E-09

1566	457700.1	3767940	5.327E-08	2.73E-09	0.00E+00	5.60E-08	5.33E-08	2.73E-09	0.00E+00	5.60E-08	1.60E-08	4.91E-10	0.00E+00	1.64E-08	6.04E-09	1.59E-10	0.00E+00	6.20E-09
1567	457690.1	3767940	5.709E-08	2.93E-09	0.00E+00	6.00E-08	5.71E-08	2.93E-09	0.00E+00	6.00E-08	1.71E-08	5.26E-10	0.00E+00	1.76E-08	6.48E-09	1.70E-10	0.00E+00	6.65E-09
1568	457680.2	3767940	6.118E-08	3.14E-09	0.00E+00	6.43E-08	6.12E-08	3.14E-09	0.00E+00	6.43E-08	1.83E-08	5.64E-10	0.00E+00	1.89E-08	6.94E-09	1.82E-10	0.00E+00	7.12E-09
1569	457670.2	3767940	6.547E-08	3.36E-09	0.00E+00	6.88E-08	6.55E-08	3.36E-09	0.00E+00	6.88E-08	1.96E-08	6.03E-10	0.00E+00	2.02E-08	7.43E-09	1.95E-10	0.00E+00	7.62E-09
1570	457660.3	3767940	6.989E-08	3.58E-09	0.00E+00	7.35E-08	6.99E-08	3.58E-09	0.00E+00	7.35E-08	2.09E-08	6.44E-10	0.00E+00	2.16E-08	7.93E-09	2.08E-10	0.00E+00	8.14E-09
1571	457650.3	3767940	7.438E-08	3.81E-09	0.00E+00	7.82E-08	7.44E-08	3.81E-09	0.00E+00	7.82E-08	2.23E-08	6.86E-10	0.00E+00	2.30E-08	8.44E-09	2.21E-10	0.00E+00	8.66E-09
1572	457640.4	3767940	7.889E-08	4.04E-09	0.00E+00	8.29E-08	7.89E-08	4.04E-09	0.00E+00	8.29E-08	2.36E-08	7.27E-10	0.00E+00	2.44E-08	8.95E-09	2.35E-10	0.00E+00	9.18E-09
1573	457630.4	3767940	8.337E-08	4.27E-09	0.00E+00	8.76E-08	8.34E-08	4.27E-09	0.00E+00	8.76E-08	2.50E-08	7.68E-10	0.00E+00	2.57E-08	9.46E-09	2.48E-10	0.00E+00	9.71E-09
1574	457620.5	3767940	8.775E-08	4.50E-09	0.00E+00	9.22E-08	8.77E-08	4.50E-09	0.00E+00	9.22E-08	2.63E-08	8.09E-10	0.00E+00	2.71E-08	9.96E-09	2.61E-10	0.00E+00	1.02E-08
1575	457610.5	3767940	9.201E-08	4.72E-09	0.00E+00	9.67E-08	9.20E-08	4.72E-09	0.00E+00	9.67E-08	2.76E-08	8.48E-10	0.00E+00	2.84E-08	1.04E-08	2.74E-10	0.00E+00	1.07E-08
1576	457600.6	3767940	9.61E-08	4.93E-09	0.00E+00	1.01E-07	9.61E-08	4.93E-09	0.00E+00	1.01E-07	2.88E-08	8.86E-10	0.00E+00	2.97E-08	1.09E-08	2.86E-10	0.00E+00	1.12E-08
1577	457590.6	3767940	9.996E-08	5.12E-09	0.00E+00	1.05E-07	1.00E-07	5.12E-09	0.00E+00	1.05E-07	2.99E-08	9.21E-10	0.00E+00	3.09E-08	1.13E-08	2.97E-10	0.00E+00	1.16E-08
1578	457580.7	3767940	1.036E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.55E-10	0.00E+00	3.20E-08	1.18E-08	3.08E-10	0.00E+00	1.21E-08
1579	457570.7	3767940	1.07E-07	5.48E-09	0.00E+00	1.12E-07	1.07E-07	5.48E-09	0.00E+00	1.12E-07	3.20E-08	9.86E-10	0.00E+00	3.30E-08	1.21E-08	3.18E-10	0.00E+00	1.25E-08
1580	457560.8	3767940	1.102E-07	5.65E-09	0.00E+00	1.16E-07	1.10E-07	5.65E-09	0.00E+00	1.16E-07	3.30E-08	1.02E-09	0.00E+00	3.40E-08	1.25E-08	3.28E-10	0.00E+00	1.28E-08
1581	457550.8	3767940	1.131E-07	5.80E-09	0.00E+00	1.19E-07	1.13E-07	5.80E-09	0.00E+00	1.19E-07	3.39E-08	1.04E-09	0.00E+00	3.49E-08	1.28E-08	3.36E-10	0.00E+00	1.32E-08
1582	457540.9	3767940	1.157E-07	5.93E-09	0.00E+00	1.22E-07	1.16E-07	5.93E-09	0.00E+00	1.22E-07	3.47E-08	1.07E-09	0.00E+00	3.57E-08	1.31E-08	3.44E-10	0.00E+00	1.35E-08
1583	457530.9	3767940	1.182E-07	6.06E-09	0.00E+00	1.24E-07	1.18E-07	6.06E-09	0.00E+00	1.24E-07	3.54E-08	1.09E-09	0.00E+00	3.65E-08	1.34E-08	3.52E-10	0.00E+00	1.38E-08
1584	457521	3767940	1.204E-07	6.17E-09	0.00E+00	1.27E-07	1.20E-07	6.17E-09	0.00E+00	1.27E-07	3.61E-08	1.11E-09	0.00E+00	3.72E-08	1.37E-08	3.58E-10	0.00E+00	1.40E-08
1585	457511	3767940	1.224E-07	6.27E-09	0.00E+00	1.29E-07	1.22E-07	6.27E-09	0.00E+00	1.29E-07	3.67E-08	1.13E-09	0.00E+00	3.78E-08	1.39E-08	3.64E-10	0.00E+00	1.42E-08
1586	457501.1	3767940	1.24E-07	6.36E-09	0.00E+00	1.30E-07	1.24E-07	6.36E-09	0.00E+00	1.30E-07	3.71E-08	1.14E-09	0.00E+00	3.83E-08	1.41E-08	3.69E-10	0.00E+00	1.44E-08
1587	457491.1	3767940	1.254E-07	6.43E-09	0.00E+00	1.32E-07	1.25E-07	6.43E-09	0.00E+00	1.32E-07	3.76E-08	1.16E-09	0.00E+00	3.87E-08	1.42E-08	3.73E-10	0.00E+00	1.46E-08
1588	457481.2	3767940	1.265E-07	6.49E-09	0.00E+00	1.33E-07	1.27E-07	6.49E-09	0.00E+00	1.33E-07	3.79E-08	1.17E-09	0.00E+00	3.91E-08	1.44E-08	3.76E-10	0.00E+00	1.47E-08
1589	457471.2	3767940	1.275E-07	6.54E-09	0.00E+00	1.34E-07	1.28E-07	6.54E-09	0.00E+00	1.34E-07	3.82E-08	1.18E-09	0.00E+00	3.94E-08	1.45E-08	3.80E-10	0.00E+00	1.48E-08
1590	457461.3	3767940	1.284E-07	6.58E-09	0.00E+00	1.35E-07	1.28E-07	6.58E-09	0.00E+00	1.35E-07	3.84E-08	1.18E-09	0.00E+00	3.96E-08	1.46E-08	3.82E-10	0.00E+00	1.49E-08
1591	457451.3	3767940	1.29E-07	6.61E-09	0.00E+00	1.36E-07	1.29E-07	6.61E-09	0.00E+00	1.36E-07	3.86E-08	1.19E-09	0.00E+00	3.98E-08	1.46E-08	3.84E-10	0.00E+00	1.50E-08
1592	457441.4	3767940	1.293E-07	6.63E-09	0.00E+00	1.36E-07	1.29E-07	6.63E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
1593	457431.4	3767940	1.295E-07	6.64E-09	0.00E+00	1.36E-07	1.29E-07	6.64E-09	0.00E+00	1.36E-07	3.88E-08	1.19E-09	0.00E+00	4.00E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
1594	457421.5	3767940	1.294E-07	6.63E-09	0.00E+00	1.36E-07	1.29E-07	6.63E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
1595	457411.5	3767940	1.289E-07	6.61E-09	0.00E+00	1.35E-07	1.29E-07	6.61E-09	0.00E+00	1.35E-07	3.86E-08	1.19E-09	0.00E+00	3.98E-08	1.46E-08	3.84E-10	0.00E+00	1.50E-08
1596	457401.6	3767940	1.281E-07	6.57E-09	0.00E+00	1.35E-07	1.28E-07	6.57E-09	0.00E+00	1.35E-07	3.84E-08	1.18E-09	0.00E+00	3.96E-08	1.45E-08	3.81E-10	0.00E+00	1.49E-08
1597	457391.6	3767940	1.271E-07	6.52E-09	0.00E+00	1.34E-07	1.27E-07	6.52E-09	0.00E+00	1.34E-07	3.81E-08	1.17E-09	0.00E+00	3.92E-08	1.44E-08	3.78E-10	0.00E+00	1.48E-08
1598	457381.7	3767940	1.257E-07	6.45E-09	0.00E+00	1.32E-07	1.26E-07	6.45E-09	0.00E+00	1.32E-07	3.77E-08	1.16E-09	0.00E+00	3.88E-08	1.43E-08	3.74E-10	0.00E+00	1.46E-08
1599	457371.7	3767940	1.241E-07	6.36E-09	0.00E+00	1.30E-07	1.24E-07	6.36E-09	0.00E+00	1.30E-07	3.72E-08	1.14E-09	0.00E+00	3.83E-08	1.41E-08	3.69E-10	0.00E+00	1.44E-08
1600	457361.8	3767940	1.22E-07	6.26E-09	0.00E+00	1.28E-07	1.22E-07	6.26E-09	0.00E+00	1.28E-07	3.65E-08	1.12E-09	0.00E+00	3.77E-08	1.38E-08	3.63E-10	0.00E+00	1.42E-08
1601	457351.8	3767940	1.197E-07	6.14E-09	0.00E+00	1.26E-07	1.20E-07	6.14E-09	0.00E+00	1.26E-07	3.58E-08	1.10E-09	0.00E+00	3.70E-08	1.36E-08	3.56E-10	0.00E+00	1.39E-08
1602	457341.9	3767940	1.17E-07	6.00E-09	0.00E+00	1.23E-07	1.17E-07	6.00E-09	0.00E+00	1.23E-07	3.51E-08	1.08E-09	0.00E+00	3.61E-08	1.33E-08	3.48E-10	0.00E+00	1.36E-08
1603	457331.9	3767940	1.14E-07	5.84E-09	0.00E+00	1.20E-07	1.14E-07	5.84E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.39E-10	0.00E+00	1.33E-08
1604	457752.8	3767951	4.027E-08	2.06E-09	0.00E+00	4.23E-08	4.03E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
1605	457761.6	3767955	3.907E-08	2.00E-09	0.00E+00	4.11E-08	3.91E-08	2.00E-09	0.00E+00	4.11E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.43E-09	1.16E-10	0.00E+00	4.55E-09
1606	457774.2	3767967	3.934E-08	2.02E-09	0.00E+00	4.14E-08	3.93E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.58E-09
1607	457777.9	3767976	4.088E-08	2.10E-09	0.00E+00	4.30E-08	4.09E-08	2.10E-09	0.00E+00	4.30E-08	1.22E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.76E-09
1608	457781.6	3767985	4.265E-08	2.19E-09	0.00E+00	4.48E-08	4.26E-08	2.19E-09	0.00E+00	4.48E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
1609	457785.3	3767993	4.468E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.07E-09	1.33E-10	0.00E+00	5.20E-09
1610	457789	3768002	4.7E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.33E-09	1.40E-10	0.00E+00	5.47E-09
1611	457792.8	3768011	4.963E-08	2.54E-09	0.00E+00	5.22E-08	4.96E-08	2.54E-09	0.00E+00	5.22E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.63E-09	1.48E-10	0.00E+00	5.78E-09
1612	457796.5	3768020	5.26E-08	2.70E-09	0.00E+00	5.53E-08	5.26E-08	2.70E-09	0.00E+00	5.53E-08	1.58E-08	4.85E-10	0.00E+00	1.62E-08	5.97E-09	1.57E-10	0.00E+00	6.12E-09
1613	457700	3767930	4.997E-08	2.56E-09	0.00E+00	5.25E-08	5.00E-08	2.56E-09	0.00E+00	5.25E-08	1.50E-08	4.61E-10	0.00E+00	1.54E-08	5.67E-09	1.49E-10	0.00E+00	5.82E-09
1614	457690.1	3767930	5.341E-08	2.74E-09	0.00E+00	5.62E-08	5.34E-08	2.74E-09	0.00E+00	5.62E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.06E-09	1.59E-10	0.00E+00	6.22E-09
1615	457680.1	3767930	5.709E-08	2.93E-09	0.00E+00	6.00E-08	5.71E-08	2.93E-09	0.00E+00	6.00E-08	1.71E-08	5.26E-10	0.00E+00	1.76E-08	6.48E-09	1.70E-10	0.00E+00	6.65E-09
1616	457670.2	3767930	6.095E-08	3.12E-09	0.00E+00	6.41E-08	6.10E-08	3.12E-09	0.00E+00	6.41E-08	1.83E-08	5.62E-10	0.00E+00	1.88E-08	6.92E-09	1.81E-10	0.00E+00	7.10E-09
1617	457660.2	3767930	6.492E-08	3.33E-09	0.00E+00	6.82E-08	6.49E-08	3.33E-09	0.00E+00	6.82E-08	1.94E-08	5.98E-10	0.00E+00	2.00E-08	7.37E-09	1.93E-10	0.00E+00	7.56E-09
1618	457650.3	3767930	6.896E-08	3.54E-09	0.00E+00	7.25E-08	6.90E-08	3.54E-09	0.00E+00	7.25E-08	2.07E-08	6.36E-10	0.00E+00	2.13E-08	7.82E-09	2.05E-10	0.00E+00	8.03E-09
1619	457640.3	3767930	7.304E-08	3.74E-09	0.00E+00	7.68E-08	7.30E-08	3.74E-09	0.00E+00	7.68E-08	2.19E-08	6.73E-10	0.00E+00	2.26E-08	8.29E-09	2.17E-10	0.00E+00	8.50E-09
1620	457630.4	3767930	7.711E-08	3.95E-09	0.00E+00	8.11E-08	7.71E-08	3.95E-09	0.00E+00	8.11E-08	2.31E-08	7.11E-10	0.00E+00	2.38E-08	8.75E-09	2.29E-10	0.00E+00	8.98E-09
1621	457620.4	3767930	8.112E-08	4.16E-09	0.00E+00	8.53E-08	8.11E-08	4.16E-09	0.00E+00	8.53E-08	2.43E-08	7.48E-10	0.00E+00	2.50E-08	9.20E-09	2.41E-10	0.00E+00	9.44E-09
1622	457610.5	3767930	8.503E-08	4.36E-09	0.00E+00	8.94E-08	8.50E-08	4.36E-09	0.00E+00	8.94E-08	2.55E-08	7.84E-10	0.00E+00	2.63E-08	9.65E-09	2.53E-10	0.00E+00	9.90E-09
1623	457600.5	3767930	8.882E-08	4.55E-09	0.00E+00	9.34E-08	8.88E-08	4.55E-09	0.00E+00	9.34E-08	2.66E-08	8.19E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
1624	457590.6	3767930	9.239E-08	4.74E-09	0.00E+00	9.71E-08	9.24E-08	4.74E-09	0.00E+00	9.71E-08	2.77E-08	8.52E-10	0.00E+00	2.85E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
1625	457580.7	3767930	9.578E-08	4.91E-09	0.00E+00	1.01E-07	9.58E-08	4.91E-09	0.00E+00	1.01E-07	2.87E-08	8.83E-10	0.00E+00	2.96E-08	1.09E-08	2.85E-10	0.00E+00	1.12E-08
1626	457570.7	3767930	9.895E-08	5.07E-09	0.00E+00	1.04E-07	9.89E-08	5.07E-09	0.00E+00	1.04E-07	2.96E-08	9.12E-10	0.00E+00	3.05E-08	1.12E-08	2.94E-10	0.00E+00	1.15E-08
1627	457560.8	3767930	1.02E-07	5.23E-09	0.00E+00	1.07E-07	1.02E-07	5.23E-09	0.00E+00	1.07E-07	3.05E-08	9.40E-10	0.00E+00	3.15E-08	1.16E-08	3.03E-10	0.00E+00	1.19E-08
1628	457550.8	3767930	1.048E-07	5.37E-09	0.00E+00	1.10E-07	1.05E-07	5.37E-09	0.00E+00	1.10E-07	3.14E-08	9.66E-10	0.00E+00	3.23E-08	1.19E-08	3.12E-10	0.00E+00	1.22E-08
1629	457540.9	3767930	1.074E-07	5.50E-09	0.00E+00	1.13E-07	1.07E-07	5.50E-09	0.00E+00	1.13E-07	3.22E-08	9.90E-10	0.00E+00	3.31E-08	1.22E-08	3.20E-10	0.00E+00	1.25E-08
1630	457530.9	3767930	1.098E-07	5.63E-09	0.00E+00	1.15E-07	1.10E-07	5.63E-09	0.00E+00	1.15E-07	3.29E-08	1.01E-09	0.00E+00	3.39E-08	1.25E-08	3.27E-10	0.00E+00	1.28E-08
1631	457521	3767930	1.119E-07	5.74E-09	0.00E+00	1.18E-07	1.12E-07	5.74E-09	0.00E+00	1.18E-07	3.35E-08	1.03E-09	0.00E+00	3.46E-08	1.27E-08	3.33E-10	0.00E+00	1.30E-08
1632	457511	3767930	1.139E-07	5.84E-09	0.00E+00	1.20E-07	1.14E-07	5.84E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.39E-10	0.00E+00	1.33E-08
1633	457501.1	3767930	1.155E-07	5.92E-09	0.00E+00	1.21E-07	1.16E-07	5.92E-09	0.00E+00	1.21E-07	3.46E-08	1.06E-09	0.00E+00	3.57E-08	1.31E-08	3.44E-10	0.00E+00	1.34E-08
1634	457491.1	3767930	1.169E-07	5.99E-09	0.00E+00	1.23E-07	1.17E-07	5.99E-09	0.00E+00	1.23E-07	3.50E-08	1.08E-09	0.00E+00	3.61E-08	1.33E-08	3.48E-10	0.00E+00	1.36E-08
1635	457481.2	3767930	1.181E-07	6.05E-09	0.00E+00	1.24E-07	1.18E-07	6.05E-09	0.00E+00	1.24E-07	3.54E-08	1.09E-09	0.00E+00	3.64E-08	1.34E-08	3.51E-10	0.00E+00	1.37E-08
1636	457471.2	3767930	1.191E-07	6.11E-09	0.00E+00	1.25E-07	1.19E-07	6.11E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.54E-10	0.00E+00	1.39E-08
1637	457461.3	3767930	1.2E-07	6.15E-09	0.00E+00	1.26E-07	1.20E-07	6.15E-09	0.00E+00	1.26E-07	3.59E-08	1.11E-09	0.00E+00	3.70E-08	1.36E-08	3.57E-10	0.00E+00	1.40E-08
1638	457451.3	3767930	1.206E-07	6.19E-09	0.00E+00	1.27E-07	1.21E-07	6.19E-09	0.00E+00	1.27E-07	3.61E-08	1.11E-09	0.00E+00	3.72E-08	1.37E-08	3.59E-10	0.00E+00	1.40E-08
1639	457441.4	3767930	1.211E-07	6.21E-09	0.00E+00	1.27E-07	1.21E-07	6.21E-09	0.00E+00	1.27E-07	3.63E-08	1.12E-09	0.00E+00	3.74E-08	1.37E-08	3.60E-10	0.00E+00	1.41E-08
1640	457431.4	3767930	1.213E-07	6.22E-09	0.00E+00	1.27E-07	1.21E-07	6.22E-09	0.00E+00	1.27E-07	3.63E-08	1.12E-09	0.00E+00	3.74E-08	1.38E-08	3.61E-10	0.00E+00	1.41E-08
1641	457421.5	3767930	1.212E-07	6.22E-09	0.00E+00	1.27E-07	1.21E-07	6.22E-09	0.00E+00	1.27E-07	3.63E-08	1.12E-09	0.00E+00	3.74E-08	1.38E-08	3.61E-10	0.00E+00	1.41E-08
1642	457411.5	3767930	1.209E-07	6.20E-09	0.00E+00	1.27E-07	1.21E-07	6.20E-09	0.00E+00	1.27E-07	3.62E-08	1.11E-09	0.00E+00	3.73E-08	1.37E-08	3.60E-10	0.00E+00	1.41E-08
1643	457401.6	3767930	1.202E-07	6.16E-09	0.00E+00	1.26E-07	1.20E-07	6.16E-09	0.00E+00	1.26E-07	3.60E-08	1.11E-09	0.00E+00	3.71E-08	1.36E-08	3.58E-10	0.00E+00	1.40E-08
1644	457391.6	3767930	1.192E-07	6.11E-09	0.00E+00	1.25E-07	1.19E-07	6.11E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
1645	457381.7	3767930	1.181E-07	6.06E-09	0.00E+00	1.24E-07	1.18E-07	6.06E-09	0.00E+00	1.24E-07	3.54E-08	1.09E-09	0.00E+00	3.65E-08	1.34E-08	3.51E-10	0.00E+00	1.38E-08
1646	457371.7	3767930	1.167E-07	5.98E-09	0.00E+00	1.23E-07	1.17E-07	5.98E-09	0.00E+00	1.23E-07	3.50E-08	1.08E-09	0.00E+00	3.60E-08	1.32E-08	3.47E-10	0.00E+00	1.36E-08
1647	457361.8	3767930	1.15E-07	5.89E-09	0.00E+00	1.21E-07	1.15E-07	5.89E-09	0.00E+00	1.21E-07	3.44E-08	1.06E-09	0.00E+00	3.55E-08	1.30E-08	3.42E-10	0.00E+00	1.34E-08
1648	457351.8	3767930	1.13E-07	5.79E-09	0.00E+00	1.19E-07	1.13E-07	5.79E-09	0.00E+00	1.19E-07	3.38E-08	1.04E-09	0.00E+00	3.49E-08	1.28E-08	3.36E-10	0.00E+00	1.32E-08
1649	457341.9	3767930	1.106E-07	5.67E-09	0.00E+00	1.16E-07	1.11E-07	5.67E-09	0.00E+00	1.16E-07	3.31E-08	1.02E-09	0.00E+00	3.41E-08	1.25E-08	3.29E-10	0.00E+00	1.29E-08
1650	457331.9	3767930	1.08E-07	5.53E-09	0.00E+00	1.13E-07	1.08E-07	5.53E-09	0.00E+00	1.13E-07	3.23E-08	9.95E-10	0.00E+00	3.33E-08	1.22E-08	3.21E-10	0.00E+00	1.26E-08
1651	457752.8	3767926	3.517E-08	1.80E-09	0.00E+00	3.70E-08	3.52E-08	1.80E-09	0.00E+00	3.70E-08	1.05E-08	3.24E-10	0.00E+00	1.09E-08	3.99E-09	1.05E-10	0.00E+00	4.09E-09
1652	457761.6	3767930	3.409E-08	1.75E-09	0.00E+00	3.58E-08	3.41E-08	1.75E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.87E-09	1.01E-10	0.00E+00	3.97E-09
1653	457770.4	3767933	3.312E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.92E-09	3.05E-10	0.00E+00	1.02E-08	3.76E-09	9.85E-11	0.00E+00	3.86E-09
1654	457779.2	3767937	3.224E-08	1.65E-09	0.00E+00	3.39E-08	3.22E-08	1.65E-09	0.00E+00	3.39E-08	9.66E-09	2.97E-10	0.00E+00	9.95E-09	3.66E-09	9.59E-11	0.00E+00	3.75E-09
1655	457791.7	3767949	3.24E-08	1.66E-09	0.00E+00	3.41E-08	3.24E-08	1.66E-09	0.00E+00	3.41E-08	9.70E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.64E-11	0.00E+00	3.77E-09
1656	457795.4	3767958	3.348E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.96E-11	0.00E+00	3.90E-09
1657	457799.2	3767967	3.473E-08	1.78E-09	0.00E+00	3.65E-08	3.47E-08	1.78E-09	0.00E+00	3.65E-08	1.04E-08	3.20E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.04E-09
1658	457802.9	3767976	3.615E-08	1.85E-09	0.00E+00	3.80E-08	3.62E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.08E-10	0.00E+00	4.21E-09
1659	457806.6	3767984	3.778E-08	1.94E-09	0.00E+00	3.97E-08	3.78E-08	1.94E-09	0.00E+00	3.97E-08	1.13E-08	3.48E-10	0.00E+00	1.17E-08	4.29E-09	1.12E-10	0.00E+00	4.40E-09
1660	457810.3	3767993	3.958E-08	2.03E-09	0.00E+00	4.16E-08	3.96E-08	2.03E-09	0.00E+00	4.16E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.61E-09
1661	457814	3768002	4.16E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.25E-08	3.84E-10	0.00E+00	1.28E-08	4.72E-09	1.24E-10	0.00E+00	4.84E-09
1662	457817.7	3768011	4.386E-08	2.25E-09	0.00E+00	4.61E-08	4.39E-08	2.25E-09	0.00E+00	4.61E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.98E-09	1.31E-10	0.00E+00	5.11E-09
1663	457821.5	3768019	4.637E-08	2.38E-09	0.00E+00	4.87E-08	4.64E-08	2.38E-09	0.00E+00	4.87E-08	1.39E-08	4.27E-10	0.00E+00	1.43E-08	5.26E-09	1.38E-10	0.00E+00	5.40E-09
1664	457690.1	3767905	4.597E-08	2.36E-09	0.00E+00	4.83E-08	4.60E-08	2.36E-09	0.00E+00	4.83E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.35E-09
1665	457680.1	3767905	4.884E-08	2.50E-09	0.00E+00	5.13E-08	4.88E-08	2.50E-09	0.00E+00	5.13E-08	1.46E-08	4.50E-10	0.00E+00	1.51E-08	5.54E-09	1.45E-10	0.00E+00	5.69E-09
1666	457670.2	3767905	5.185E-08	2.66E-09	0.00E+00	5.45E-08	5.19E-08	2.66E-09	0.00E+00	5.45E-08	1.55E-08	4.78E-10	0.00E+00	1.60E-08	5.88E-09	1.54E-10	0.00E+00	6.04E-09
1667	457660.2	3767905	5.496E-08	2.82E-09	0.00E+00	5.78E-08	5.50E-08	2.82E-09	0.00E+00	5.78E-08	1.65E-08	5.07E-10	0.00E+00	1.70E-08	6.24E-09	1.64E-10	0.00E+00	6.40E-09
1668	457650.3	3767905	5.815E-08	2.98E-09	0.00E+00	6.11E-08	5.82E-08	2.98E-09	0.00E+00	6.11E-08	1.74E-08	5.36E-10	0.00E+00	1.80E-08	6.60E-09	1.73E-10	0.00E+00	6.77E-09
1669	457640.3	3767905	6.139E-08	3.15E-09	0.00E+00	6.45E-08	6.14E-08	3.15E-09	0.00E+00	6.45E-08	1.84E-08	5.66E-10	0.00E+00	1.90E-08	6.96E-09	1.83E-10	0.00E+00	7.15E-09
1670	457630.4	3767905	6.464E-08	3.31E-09	0.00E+00	6.80E-08	6.46E-08	3.31E-09	0.00E+00	6.80E-08	1.94E-08	5.96E-10	0.00E+00	2.00E-08	7.33E-09	1.92E-10	0.00E+00	7.53E-09
1671	457620.4	3767905	6.786E-08	3.48E-09	0.00E+00	7.13E-08	6.79E-08	3.48E-09	0.00E+00	7.13E-08	2.03E-08	6.25E-10	0.00E+00	2.09E-08	7.70E-09	2.02E-10	0.00E+00	7.90E-09
1672	457610.5	3767905	7.102E-08	3.64E-09	0.00E+00	7.47E-08	7.10E-08	3.64E-09	0.00E+00	7.47E-08	2.13E-08	6.55E-10	0.00E+00	2.19E-08	8.06E-09	2.11E-10	0.00E+00	8.27E-09
1673	457600.5	3767905	7.411E-08	3.80E-09	0.00E+00	7.79E-08	7.41E-08	3.80E-09	0.00E+00	7.79E-08	2.22E-08	6.83E-10	0.00E+00	2.29E-08	8.41E-09	2.21E-10	0.00E+00	8.63E-09
1674	457590.6	3767905	7.712E-08	3.95E-09	0.00E+00	8.11E-08	7.71E-08	3.95E-09	0.00E+00	8.11E-08	2.31E-08	7.11E-10	0.00E+00	2.38E-08	8.75E-09	2.29E-10	0.00E+00	8.98E-09
1675	457580.6	3767905	8.003E-08	4.10E-09	0.00E+00	8.41E-08	8.00E-08	4.10E-09	0.00E+00	8.41E-08	2.40E-08	7.38E-10	0.00E+00	2.47E-08	9.08E-09	2.38E-10	0.00E+00	9.32E-09
1676	457570.7	3767905	8.28E-08	4.24E-09	0.00E+00	8.70E-08	8.28E-08	4.24E-09	0.00E+00	8.70E-08	2.48E-08	7.63E-10	0.00E+00	2.56E-08	9.39E-09	2.46E-10	0.00E+00	9.64E-09
1677	457560.7	3767905	8.544E-08	4.38E-09	0.00E+00	8.98E-08	8.54E-08	4.38E-09	0.00E+00	8.98E-08	2.56E-08	7.88E-10	0.00E+00	2.64E-08	9.69E-09	2.54E-10	0.00E+00	9.95E-09

1678	457550.8	3767905	8.793E-08	4.51E-09	0.00E+00	9.24E-08	8.79E-08	4.51E-09	0.00E+00	9.24E-08	2.63E-08	8.11E-10	0.00E+00	2.71E-08	9.98E-09	2.62E-10	0.00E+00	1.02E-08
1679	457540.8	3767905	9.027E-08	4.63E-09	0.00E+00	9.49E-08	9.03E-08	4.63E-09	0.00E+00	9.49E-08	2.70E-08	8.32E-10	0.00E+00	2.79E-08	1.02E-08	2.69E-10	0.00E+00	1.05E-08
1680	457530.9	3767905	9.239E-08	4.74E-09	0.00E+00	9.71E-08	9.24E-08	4.74E-09	0.00E+00	9.71E-08	2.77E-08	8.52E-10	0.00E+00	2.85E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
1681	457520.9	3767905	9.433E-08	4.84E-09	0.00E+00	9.92E-08	9.43E-08	4.84E-09	0.00E+00	9.92E-08	2.83E-08	8.70E-10	0.00E+00	2.91E-08	1.07E-08	2.81E-10	0.00E+00	1.10E-08
1682	457511	3767905	9.609E-08	4.93E-09	0.00E+00	1.01E-07	9.61E-08	4.93E-09	0.00E+00	1.01E-07	2.88E-08	8.86E-10	0.00E+00	2.97E-08	1.09E-08	2.86E-10	0.00E+00	1.12E-08
1683	457501	3767905	9.77E-08	5.01E-09	0.00E+00	1.03E-07	9.77E-08	5.01E-09	0.00E+00	1.03E-07	2.93E-08	9.01E-10	0.00E+00	3.02E-08	1.11E-08	2.91E-10	0.00E+00	1.14E-08
1684	457491.1	3767905	9.914E-08	5.08E-09	0.00E+00	1.04E-07	9.91E-08	5.08E-09	0.00E+00	1.04E-07	2.97E-08	9.14E-10	0.00E+00	3.06E-08	1.12E-08	2.95E-10	0.00E+00	1.15E-08
1685	457481.1	3767905	1.004E-07	5.15E-09	0.00E+00	1.06E-07	1.00E-07	5.15E-09	0.00E+00	1.06E-07	3.01E-08	9.25E-10	0.00E+00	3.10E-08	1.14E-08	2.99E-10	0.00E+00	1.17E-08
1686	457471.2	3767905	1.015E-07	5.20E-09	0.00E+00	1.07E-07	1.01E-07	5.20E-09	0.00E+00	1.07E-07	3.04E-08	9.36E-10	0.00E+00	3.13E-08	1.15E-08	3.02E-10	0.00E+00	1.18E-08
1687	457461.2	3767905	1.024E-07	5.25E-09	0.00E+00	1.08E-07	1.02E-07	5.25E-09	0.00E+00	1.08E-07	3.07E-08	9.44E-10	0.00E+00	3.16E-08	1.16E-08	3.05E-10	0.00E+00	1.19E-08
1688	457451.3	3767905	1.032E-07	5.29E-09	0.00E+00	1.08E-07	1.03E-07	5.29E-09	0.00E+00	1.08E-07	3.09E-08	9.51E-10	0.00E+00	3.18E-08	1.17E-08	3.07E-10	0.00E+00	1.20E-08
1689	457441.3	3767905	1.036E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.55E-10	0.00E+00	3.20E-08	1.18E-08	3.08E-10	0.00E+00	1.21E-08
1690	457431.4	3767905	1.039E-07	5.33E-09	0.00E+00	1.09E-07	1.04E-07	5.33E-09	0.00E+00	1.09E-07	3.11E-08	9.58E-10	0.00E+00	3.21E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
1691	457421.4	3767905	1.04E-07	5.33E-09	0.00E+00	1.09E-07	1.04E-07	5.33E-09	0.00E+00	1.09E-07	3.11E-08	9.58E-10	0.00E+00	3.21E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
1692	457411.5	3767905	1.038E-07	5.32E-09	0.00E+00	1.09E-07	1.04E-07	5.32E-09	0.00E+00	1.09E-07	3.11E-08	9.57E-10	0.00E+00	3.21E-08	1.18E-08	3.09E-10	0.00E+00	1.21E-08
1693	457401.5	3767905	1.035E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.54E-10	0.00E+00	3.20E-08	1.17E-08	3.08E-10	0.00E+00	1.21E-08
1694	457391.6	3767905	1.03E-07	5.28E-09	0.00E+00	1.08E-07	1.03E-07	5.28E-09	0.00E+00	1.08E-07	3.08E-08	9.49E-10	0.00E+00	3.18E-08	1.17E-08	3.06E-10	0.00E+00	1.20E-08
1695	457381.6	3767905	1.023E-07	5.24E-09	0.00E+00	1.08E-07	1.02E-07	5.24E-09	0.00E+00	1.08E-07	3.06E-08	9.43E-10	0.00E+00	3.16E-08	1.16E-08	3.04E-10	0.00E+00	1.19E-08
1696	457371.7	3767905	1.013E-07	5.19E-09	0.00E+00	1.06E-07	1.01E-07	5.19E-09	0.00E+00	1.06E-07	3.03E-08	9.34E-10	0.00E+00	3.13E-08	1.15E-08	3.01E-10	0.00E+00	1.18E-08
1697	457361.7	3767905	1.001E-07	5.13E-09	0.00E+00	1.05E-07	1.00E-07	5.13E-09	0.00E+00	1.05E-07	3.00E-08	9.23E-10	0.00E+00	3.09E-08	1.14E-08	2.98E-10	0.00E+00	1.17E-08
1698	457351.8	3767905	9.855E-08	5.05E-09	0.00E+00	1.04E-07	9.86E-08	5.05E-09	0.00E+00	1.04E-07	2.95E-08	9.08E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.15E-08
1699	457341.8	3767905	9.677E-08	4.96E-09	0.00E+00	1.02E-07	9.68E-08	4.96E-09	0.00E+00	1.02E-07	2.90E-08	8.92E-10	0.00E+00	2.99E-08	1.10E-08	2.88E-10	0.00E+00	1.13E-08
1700	457331.9	3767905	9.476E-08	4.86E-09	0.00E+00	9.96E-08	9.48E-08	4.86E-09	0.00E+00	9.96E-08	2.84E-08	8.74E-10	0.00E+00	2.93E-08	1.08E-08	2.82E-10	0.00E+00	1.10E-08
1701	457752.8	3767901	3.119E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.88E-10	0.00E+00	9.63E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
1702	457761.6	3767905	3.024E-08	1.55E-09	0.00E+00	3.18E-08	3.02E-08	1.55E-09	0.00E+00	3.18E-08	9.06E-09	2.79E-10	0.00E+00	9.34E-09	3.43E-09	9.00E-11	0.00E+00	3.52E-09
1703	457770.4	3767908	2.937E-08	1.51E-09	0.00E+00	3.09E-08	2.94E-08	1.51E-09	0.00E+00	3.09E-08	8.80E-09	2.71E-10	0.00E+00	9.07E-09	3.33E-09	8.74E-11	0.00E+00	3.42E-09
1704	457779.2	3767912	2.857E-08	1.46E-09	0.00E+00	3.00E-08	2.86E-08	1.46E-09	0.00E+00	3.00E-08	8.56E-09	2.63E-10	0.00E+00	8.82E-09	3.24E-09	8.50E-11	0.00E+00	3.33E-09
1705	457788	3767916	2.783E-08	1.43E-09	0.00E+00	2.93E-08	2.78E-08	1.43E-09	0.00E+00	2.93E-08	8.33E-09	2.57E-10	0.00E+00	8.59E-09	3.16E-09	8.28E-11	0.00E+00	3.24E-09
1706	457796.8	3767919	2.716E-08	1.39E-09	0.00E+00	2.85E-08	2.72E-08	1.39E-09	0.00E+00	2.85E-08	8.13E-09	2.50E-10	0.00E+00	8.38E-09	3.08E-09	8.08E-11	0.00E+00	3.16E-09
1707	457809.3	3767932	2.726E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.16E-09	2.51E-10	0.00E+00	8.42E-09	3.09E-09	8.11E-11	0.00E+00	3.17E-09
1708	457813	3767940	2.807E-08	1.44E-09	0.00E+00	2.95E-08	2.81E-08	1.44E-09	0.00E+00	2.95E-08	8.41E-09	2.59E-10	0.00E+00	8.66E-09	3.18E-09	8.35E-11	0.00E+00	3.27E-09
1709	457816.7	3767949	2.898E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.68E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.62E-11	0.00E+00	3.37E-09
1710	457820.4	3767958	3.001E-08	1.54E-09	0.00E+00	3.16E-08	3.00E-08	1.54E-09	0.00E+00	3.16E-08	8.99E-09	2.77E-10	0.00E+00	9.27E-09	3.41E-09	8.93E-11	0.00E+00	3.49E-09
1711	457824.2	3767967	3.117E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.87E-10	0.00E+00	9.62E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
1712	457827.9	3767975	3.247E-08	1.66E-09	0.00E+00	3.41E-08	3.25E-08	1.66E-09	0.00E+00	3.41E-08	9.72E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.66E-11	0.00E+00	3.78E-09
1713	457831.6	3767984	3.391E-08	1.74E-09	0.00E+00	3.57E-08	3.39E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.85E-09	1.01E-10	0.00E+00	3.95E-09
1714	457835.3	3767993	3.553E-08	1.82E-09	0.00E+00	3.74E-08	3.55E-08	1.82E-09	0.00E+00	3.74E-08	1.06E-08	3.28E-10	0.00E+00	1.10E-08	4.03E-09	1.06E-10	0.00E+00	4.14E-09
1715	457839	3768002	3.733E-08	1.91E-09	0.00E+00	3.92E-08	3.73E-08	1.91E-09	0.00E+00	3.92E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
1716	457842.7	3768010	3.931E-08	2.02E-09	0.00E+00	4.13E-08	3.93E-08	2.02E-09	0.00E+00	4.13E-08	1.18E-08	3.62E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.58E-09
1717	457846.5	3768019	4.145E-08	2.13E-09	0.00E+00	4.36E-08	4.14E-08	2.13E-09	0.00E+00	4.36E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.83E-09
1718	457690	3767880	4.024E-08	2.06E-09	0.00E+00	4.23E-08	4.02E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
1719	457680.1	3767880	4.257E-08	2.18E-09	0.00E+00	4.47E-08	4.26E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.83E-09	1.27E-10	0.00E+00	4.96E-09
1720	457670.1	3767880	4.499E-08	2.31E-09	0.00E+00	4.73E-08	4.50E-08	2.31E-09	0.00E+00	4.73E-08	1.35E-08	4.15E-10	0.00E+00	1.39E-08	5.10E-09	1.34E-10	0.00E+00	5.24E-09
1721	457660.2	3767880	4.75E-08	2.44E-09	0.00E+00	4.99E-08	4.75E-08	2.44E-09	0.00E+00	4.99E-08	1.42E-08	4.38E-10	0.00E+00	1.47E-08	5.39E-09	1.41E-10	0.00E+00	5.53E-09
1722	457650.2	3767880	5.007E-08	2.57E-09	0.00E+00	5.26E-08	5.01E-08	2.57E-09	0.00E+00	5.26E-08	1.50E-08	4.62E-10	0.00E+00	1.55E-08	5.68E-09	1.49E-10	0.00E+00	5.83E-09
1723	457640.3	3767880	5.268E-08	2.70E-09	0.00E+00	5.54E-08	5.27E-08	2.70E-09	0.00E+00	5.54E-08	1.58E-08	4.86E-10	0.00E+00	1.63E-08	5.98E-09	1.57E-10	0.00E+00	6.13E-09
1724	457630.3	3767880	5.532E-08	2.84E-09	0.00E+00	5.82E-08	5.53E-08	2.84E-09	0.00E+00	5.82E-08	1.66E-08	5.10E-10	0.00E+00	1.71E-08	6.28E-09	1.65E-10	0.00E+00	6.44E-09
1725	457620.4	3767880	5.795E-08	2.97E-09	0.00E+00	6.09E-08	5.80E-08	2.97E-09	0.00E+00	6.09E-08	1.74E-08	5.34E-10	0.00E+00	1.79E-08	6.57E-09	1.72E-10	0.00E+00	6.75E-09
1726	457610.4	3767880	6.057E-08	3.11E-09	0.00E+00	6.37E-08	6.06E-08	3.11E-09	0.00E+00	6.37E-08	1.81E-08	5.58E-10	0.00E+00	1.87E-08	6.87E-09	1.80E-10	0.00E+00	7.05E-09
1727	457600.5	3767880	6.316E-08	3.24E-09	0.00E+00	6.64E-08	6.32E-08	3.24E-09	0.00E+00	6.64E-08	1.89E-08	5.82E-10	0.00E+00	1.95E-08	7.17E-09	1.88E-10	0.00E+00	7.35E-09
1728	457590.5	3767880	6.57E-08	3.37E-09	0.00E+00	6.91E-08	6.57E-08	3.37E-09	0.00E+00	6.91E-08	1.97E-08	6.06E-10	0.00E+00	2.03E-08	7.45E-09	1.96E-10	0.00E+00	7.65E-09
1729	457580.6	3767880	6.818E-08	3.50E-09	0.00E+00	7.17E-08	6.82E-08	3.50E-09	0.00E+00	7.17E-08	2.04E-08	6.28E-10	0.00E+00	2.10E-08	7.73E-09	2.03E-10	0.00E+00	7.94E-09
1730	457570.6	3767880	7.057E-08	3.62E-09	0.00E+00	7.42E-08	7.06E-08	3.62E-09	0.00E+00	7.42E-08	2.11E-08	6.50E-10	0.00E+00	2.18E-08	8.01E-09	2.10E-10	0.00E+00	8.22E-09
1731	457560.7	3767880	7.284E-08	3.73E-09	0.00E+00	7.66E-08	7.28E-08	3.73E-09	0.00E+00	7.66E-08	2.18E-08	6.71E-10	0.00E+00	2.25E-08	8.26E-09	2.17E-10	0.00E+00	8.48E-09
1732	457550.7	3767880	7.499E-08	3.84E-09	0.00E+00	7.88E-08	7.50E-08	3.84E-09	0.00E+00	7.88E-08	2.25E-08	6.91E-10	0.00E+00	2.32E-08	8.51E-09	2.23E-10	0.00E+00	8.73E-09
1733	457540.8	3767880	7.703E-08	3.95E-09	0.00E+00	8.10E-08	7.70E-08	3.95E-09	0.00E+00	8.10E-08	2.31E-08	7.10E-10	0.00E+00	2.38E-08	8.74E-09	2.29E-10	0.00E+00	8.97E-09
1734	457530.8	3767880	7.894E-08	4.05E-09	0.00E+00	8.30E-08	7.89E-08	4.05E-09	0.00E+00	8.30E-08	2.36E-08	7.28E-10	0.00E+00	2.44E-08	8.96E-09	2.35E-10	0.00E+00	9.19E-09
1735	457520.9	3767880	8.072E-08	4.14E-09	0.00E+00	8.49E-08	8.07E-08	4.14E-09	0.00E+00	8.49E-08	2.42E-08	7.44E-10	0.00E+00	2.49E-08	9.16E-09	2.40E-10	0.00E+00	9.40E-09
1736	457510.9	3767880	8.236E-08	4.22E-09	0.00E+00	8.66E-08	8.24E-08	4.22E-09	0.00E+00	8.66E-08	2.47E-08	7.59E-10	0.00E+00	2.54E-08	9.34E-09	2.45E-10	0.00E+00	9.59E-09
1737	457501	3767880	8.388E-08	4.30E-09	0.00E+00	8.82E-08	8.39E-08	4.30E-09	0.00E+00	8.82E-08	2.51E-08	7.73E-10	0.00E+00	2.59E-08	9.52E-09	2.50E-10	0.00E+00	9.77E-09
1738	457491	3767880	8.526E-08	4.37E-09	0.00E+00	8.96E-08	8.53E-08	4.37E-09	0.00E+00	8.96E-08	2.55E-08	7.86E-10	0.00E+00	2.63E-08	9.67E-09	2.54E-10	0.00E+00	9.93E-09
1739	457481.1	3767880	8.649E-08	4.43E-09	0.00E+00	9.09E-08	8.65E-08	4.43E-09	0.00E+00	9.09E-08	2.59E-08	7.97E-10	0.00E+00	2.67E-08	9.81E-09	2.57E-10	0.00E+00	1.01E-08
1740	457471.1	3767880	8.754E-08	4.49E-09	0.00E+00	9.20E-08	8.75E-08	4.49E-09	0.00E+00	9.20E-08	2.62E-08	8.07E-10	0.00E+00	2.70E-08	9.93E-09	2.60E-10	0.00E+00	1.02E-08
1741	457461.2	3767880	8.842E-08	4.53E-09	0.00E+00	9.29E-08	8.84E-08	4.53E-09	0.00E+00	9.29E-08	2.65E-08	8.15E-10	0.00E+00	2.73E-08	1.00E-08	2.63E-10	0.00E+00	1.03E-08
1742	457451.2	3767880	8.914E-08	4.57E-09	0.00E+00	9.37E-08	8.91E-08	4.57E-09	0.00E+00	9.37E-08	2.67E-08	8.22E-10	0.00E+00	2.75E-08	1.01E-08	2.65E-10	0.00E+00	1.04E-08
1743	457441.3	3767880	8.97E-08	4.60E-09	0.00E+00	9.43E-08	8.97E-08	4.60E-09	0.00E+00	9.43E-08	2.69E-08	8.27E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.04E-08
1744	457431.3	3767880	9.009E-08	4.62E-09	0.00E+00	9.47E-08	9.01E-08	4.62E-09	0.00E+00	9.47E-08	2.70E-08	8.30E-10	0.00E+00	2.78E-08	1.02E-08	2.68E-10	0.00E+00	1.05E-08
1745	457421.4	3767880	9.031E-08	4.63E-09	0.00E+00	9.49E-08	9.03E-08	4.63E-09	0.00E+00	9.49E-08	2.70E-08	8.33E-10	0.00E+00	2.79E-08	1.02E-08	2.69E-10	0.00E+00	1.05E-08
1746	457411.4	3767880	9.04E-08	4.63E-09	0.00E+00	9.50E-08	9.04E-08	4.63E-09	0.00E+00	9.50E-08	2.71E-08	8.33E-10	0.00E+00	2.79E-08	1.03E-08	2.69E-10	0.00E+00	1.05E-08
1747	457401.5	3767880	9.031E-08	4.63E-09	0.00E+00	9.49E-08	9.03E-08	4.63E-09	0.00E+00	9.49E-08	2.70E-08	8.32E-10	0.00E+00	2.79E-08	1.02E-08	2.69E-10	0.00E+00	1.05E-08
1748	457391.5	3767880	9.003E-08	4.62E-09	0.00E+00	9.46E-08	9.00E-08	4.62E-09	0.00E+00	9.46E-08	2.70E-08	8.30E-10	0.00E+00	2.78E-08	1.02E-08	2.68E-10	0.00E+00	1.05E-08
1749	457381.6	3767880	8.953E-08	4.59E-09	0.00E+00	9.41E-08	8.95E-08	4.59E-09	0.00E+00	9.41E-08	2.68E-08	8.25E-10	0.00E+00	2.76E-08	1.02E-08	2.66E-10	0.00E+00	1.04E-08
1750	457371.6	3767880	8.882E-08	4.55E-09	0.00E+00	9.34E-08	8.88E-08	4.55E-09	0.00E+00	9.34E-08	2.66E-08	8.19E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
1751	457361.7	3767880	8.792E-08	4.51E-09	0.00E+00	9.24E-08	8.79E-08	4.51E-09	0.00E+00	9.24E-08	2.63E-08	8.10E-10	0.00E+00	2.71E-08	9.97E-09	2.62E-10	0.00E+00	1.02E-08
1752	457351.7	3767880	8.683E-08	4.45E-09	0.00E+00	9.13E-08	8.68E-08	4.45E-09	0.00E+00	9.13E-08	2.60E-08	8.00E-10	0.00E+00	2.68E-08	9.85E-09	2.58E-10	0.00E+00	1.01E-08
1753	457341.8	3767880	8.555E-08	4.39E-09	0.00E+00	8.99E-08	8.56E-08	4.39E-09	0.00E+00	8.99E-08	2.56E-08	7.89E-10	0.00E+00	2.64E-08	9.71E-09	2.55E-10	0.00E+00	9.96E-09
1754	457331.8	3767880	8.409E-08	4.31E-09	0.00E+00	8.84E-08	8.41E-08	4.31E-09	0.00E+00	8.84E-08	2.52E-08	7.75E-10	0.00E+00	2.60E-08	9.54E-09	2.50E-10	0.00E+00	9.79E-09
1755	457761.5	3767880	2.72E-08	1.39E-09	0.00E+00	2.86E-08	2.72E-08	1.39E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.09E-11	0.00E+00	3.17E-09
1756	457770.3	3767883	2.641E-08	1.35E-09	0.00E+00	2.78E-08	2.64E-08	1.35E-09	0.00E+00	2.78E-08	7.91E-09	2.43E-10	0.00E+00	8.15E-09	3.00E-09	7.86E-11	0.00E+00	3.07E-09
1757	457779.1	3767887	2.568E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.69E-09	2.37E-10	0.00E+00	7.93E-09	2.91E-09	7.64E-11	0.00E+00	2.99E-09
1758	457787.9	3767891	2.5E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.49E-09	2.30E-10	0.00E+00	7.72E-09	2.84E-09	7.44E-11	0.00E+00	2.91E-09
1759	457796.7	3767894	2.438E-08	1.25E-09	0.00E+00	2.56E-08	2.44E-08	1.25E-09	0.00E+00	2.56E-08	7.30E-09	2.25E-10	0.00E+00	7.53E-09	2.77E-09	7.25E-11	0.00E+00	2.84E-09
1760	457805.5	3767898	2.381E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.19E-10	0.00E+00	7.35E-09	2.70E-09	7.08E-11	0.00E+00	2.77E-09
1761	457814.3	3767901	2.328E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.15E-10	0.00E+00	7.19E-09	2.64E-09	6.93E-11	0.00E+00	2.71E-09
1762	457826.8	3767914	2.335E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.99E-09	2.15E-10	0.00E+00	7.21E-09	2.65E-09	6.95E-11	0.00E+00	2.72E-09
1763	457830.6	3767923	2.396E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.17E-09	2.21E-10	0.00E+00	7.40E-09	2.72E-09	7.13E-11	0.00E+00	2.79E-09
1764	457834.3	3767931	2.464E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.38E-09	2.27E-10	0.00E+00	7.61E-09	2.80E-09	7.33E-11	0.00E+00	2.87E-09
1765	457838	3767940	2.542E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.61E-09	2.34E-10	0.00E+00	7.85E-09	2.88E-09	7.56E-11	0.00E+00	2.96E-09
1766	457841.7	3767949	2.629E-08	1.35E-09	0.00E+00	2.76E-08	2.63E-08	1.35E-09	0.00E+00	2.76E-08	7.87E-09	2.42E-10	0.00E+00	8.12E-09	2.98E-09	7.82E-11	0.00E+00	3.06E-09
1767	457845.4	3767958	2.726E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.17E-09	2.51E-10	0.00E+00	8.42E-09	3.09E-09	8.11E-11	0.00E+00	3.17E-09
1768	457849.2	3767966	2.833E-08	1.45E-09	0.00E+00	2.98E-08	2.83E-08	1.45E-09	0.00E+00	2.98E-08	8.48E-09	2.61E-10	0.00E+00	8.75E-09	3.21E-09	8.43E-11	0.00E+00	3.30E-09
1769	457852.9	3767975	2.952E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.84E-09	2.72E-10	0.00E+00	9.11E-09	3.35E-09	8.78E-11	0.00E+00	3.44E-09
1770	457856.6	3767984	3.082E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.23E-09	2.84E-10	0.00E+00	9.52E-09	3.50E-09	9.17E-11	0.00E+00	3.59E-09
1771	457860.3	3767993	3.227E-08	1.65E-09	0.00E+00	3.39E-08	3.23E-08	1.65E-09	0.00E+00	3.39E-08	9.67E-09	2.97E-10	0.00E+00	9.96E-09	3.66E-09	9.60E-11	0.00E+00	3.76E-09
1772	457864	3768001	3.386E-08	1.74E-09	0.00E+00	3.56E-08	3.39E-08	1.74E-09	0.00E+00	3.56E-08	1.01E-08	3.12E-10	0.00E+00	1.05E-08	3.84E-09	1.01E-10	0.00E+00	3.94E-09
1773	457867.7	3768010	3.557E-08	1.82E-09	0.00E+00	3.74E-08	3.56E-08	1.82E-09	0.00E+00	3.74E-08	1.07E-08	3.28E-10	0.00E+00	1.10E-08	4.04E-09	1.06E-10	0.00E+00	4.14E-09
1774	457871.5	3768019	3.74E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
1775	457690	3767855	3.572E-08	1.83E-09	0.00E+00	3.76E-08	3.57E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.05E-09	1.06E-10	0.00E+00	4.16E-09
1776	457680	3767855	3.764E-08	1.93E-09	0.00E+00	3.96E-08	3.76E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.38E-09
1777	457670.1	3767855	3.963E-08	2.03E-09	0.00E+00	4.17E-08	3.96E-08	2.03E-09	0.00E+00	4.17E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.50E-09	1.18E-10	0.00E+00	4.61E-09
1778	457660.1	3767855	4.169E-08	2.14E-09	0.00E+00	4.38E-08	4.17E-08	2.14E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.85E-09
1779	457650.2	3767855	4.38E-08	2.25E-09	0.00E+00	4.60E-08	4.38E-08	2.25E-09	0.00E+00	4.60E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.97E-09	1.30E-10	0.00E+00	5.10E-09
1780	457640.2	3767855	4.595E-08	2.36E-09	0.00E+00	4.83E-08	4.60E-08	2.36E-09	0.00E+00	4.83E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.21E-09	1.37E-10	0.00E+00	5.35E-09
1781	457630.3	3767855	4.813E-08	2.47E-09	0.00E+00	5.06E-08	4.81E-08	2.47E-09	0.00E+00	5.06E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.46E-09	1.43E-10	0.00E+00	5.60E-09
1782	457620.3	3767855	5.033E-08	2.58E-09	0.00E+00	5.29E-08	5.03E-08	2.58E-09	0.00E+00	5.29E-08	1.51E-08	4.64E-10	0.00E+00	1.55E-08	5.71E-09	1.50E-10	0.00E+00	5.86E-09
1783	457610.4	3767855	5.253E-08	2.69E-09	0.00E+00	5.52E-08	5.25E-08	2.69E-09	0.00E+00	5.52E-08	1.57E-08	4.84E-10	0.00E+00	1.62E-08	5.96E-09	1.56E-10	0.00E+00	6.12E-09
1784	457600.4	3767855	5.472E-08	2.81E-09	0.00E+00	5.75E-08	5.47E-08	2.81E-09	0.00E+00	5.75E-08	1.64E-08	5.04E-10	0.00E+00	1.69E-08	6.21E-09	1.63E-10	0.00E+00	6.37E-09
1785	457590.5	3767855	5.686E-08	2.91E-09	0.00E+00	5.98E-08	5.69E-08	2.91E-09	0.00E+00	5.98E-08	1.70E-08	5.24E-10	0.00E+00	1.76E-08	6.45E-09	1.69E-10	0.00E+00	6.62E-09
1786	457580.5	3767855	5.896E-08	3.02E-09	0.00E+00	6.20E-08	5.90E-08	3.02E-09	0.00E+00	6.20E-08	1.77E-08	5.43E-10	0.00E+00	1.82E-08	6.69E-09	1.75E-10	0.00E+00	6.86E-09
1787	457570.6	3767855	6.099E-08	3.13E-09	0.00E+00	6.41E-08	6.10E-08	3.13E-09	0.00E+00	6.41E-08	1.83E-08	5.62E-10	0.00E+00	1.88E-08	6.92E-09	1.82E-10	0.00E+00	7.10E-09
1788	457560.6	3767855	6.296E-08	3.23E-09	0.00E+00	6.62E-08	6.30E-08	3.23E-09	0.00E+00	6.62E-08	1.89E-08	5.80E-10	0.00E+00	1.94E-08	7.14E-09	1.87E-10	0.00E+00	7.33E-09
1789	457550.7	3767855	6.483E-08	3.32E-09	0.00E+00	6.82E-08	6.48E-08	3.32E-09	0.00E+00	6.82E-08	1.94E-08	5.98E-10	0.00E+00	2.00E-08	7.36E-09	1.93E-10	0.00E+00	7.55E-09

1790	457540.7	3767855	6.662E-08	3.42E-09	0.00E+00	7.00E-08	6.66E-08	3.42E-09	0.00E+00	7.00E-08	2.00E-08	6.14E-10	0.00E+00	2.06E-08	7.56E-09	1.98E-10	0.00E+00	7.76E-09
1791	457530.8	3767855	6.834E-08	3.50E-09	0.00E+00	7.18E-08	6.83E-08	3.50E-09	0.00E+00	7.18E-08	2.05E-08	6.30E-10	0.00E+00	2.11E-08	7.75E-09	2.03E-10	0.00E+00	7.96E-09
1792	457520.8	3767855	6.996E-08	3.59E-09	0.00E+00	7.35E-08	7.00E-08	3.59E-09	0.00E+00	7.35E-08	2.10E-08	6.45E-10	0.00E+00	2.16E-08	7.94E-09	2.08E-10	0.00E+00	8.15E-09
1793	457510.9	3767855	7.148E-08	3.66E-09	0.00E+00	7.51E-08	7.15E-08	3.66E-09	0.00E+00	7.51E-08	2.14E-08	6.59E-10	0.00E+00	2.21E-08	8.11E-09	2.13E-10	0.00E+00	8.32E-09
1794	457500.9	3767855	7.286E-08	3.74E-09	0.00E+00	7.66E-08	7.29E-08	3.74E-09	0.00E+00	7.66E-08	2.18E-08	6.72E-10	0.00E+00	2.25E-08	8.27E-09	2.17E-10	0.00E+00	8.48E-09
1795	457491	3767855	7.412E-08	3.80E-09	0.00E+00	7.79E-08	7.41E-08	3.80E-09	0.00E+00	7.79E-08	2.22E-08	6.83E-10	0.00E+00	2.29E-08	8.41E-09	2.21E-10	0.00E+00	8.63E-09
1796	457481	3767855	7.525E-08	3.86E-09	0.00E+00	7.91E-08	7.53E-08	3.86E-09	0.00E+00	7.91E-08	2.25E-08	6.94E-10	0.00E+00	2.32E-08	8.54E-09	2.24E-10	0.00E+00	8.76E-09
1797	457471.1	3767855	7.625E-08	3.91E-09	0.00E+00	8.02E-08	7.62E-08	3.91E-09	0.00E+00	8.02E-08	2.28E-08	7.03E-10	0.00E+00	2.35E-08	8.65E-09	2.27E-10	0.00E+00	8.88E-09
1798	457461.1	3767855	7.71E-08	3.95E-09	0.00E+00	8.11E-08	7.71E-08	3.95E-09	0.00E+00	8.11E-08	2.31E-08	7.11E-10	0.00E+00	2.38E-08	8.75E-09	2.29E-10	0.00E+00	8.98E-09
1799	457451.2	3767855	7.783E-08	3.99E-09	0.00E+00	8.18E-08	7.78E-08	3.99E-09	0.00E+00	8.18E-08	2.33E-08	7.17E-10	0.00E+00	2.40E-08	8.83E-09	2.32E-10	0.00E+00	9.06E-09
1800	457441.2	3767855	7.845E-08	4.02E-09	0.00E+00	8.25E-08	7.84E-08	4.02E-09	0.00E+00	8.25E-08	2.35E-08	7.23E-10	0.00E+00	2.42E-08	8.90E-09	2.33E-10	0.00E+00	9.13E-09
1801	457431.3	3767855	7.894E-08	4.05E-09	0.00E+00	8.30E-08	7.89E-08	4.05E-09	0.00E+00	8.30E-08	2.36E-08	7.28E-10	0.00E+00	2.44E-08	8.96E-09	2.35E-10	0.00E+00	9.19E-09
1802	457421.4	3767855	7.928E-08	4.06E-09	0.00E+00	8.33E-08	7.93E-08	4.06E-09	0.00E+00	8.33E-08	2.37E-08	7.31E-10	0.00E+00	2.45E-08	9.00E-09	2.36E-10	0.00E+00	9.23E-09
1803	457411.4	3767855	7.946E-08	4.07E-09	0.00E+00	8.35E-08	7.95E-08	4.07E-09	0.00E+00	8.35E-08	2.38E-08	7.32E-10	0.00E+00	2.45E-08	9.02E-09	2.36E-10	0.00E+00	9.25E-09
1804	457401.5	3767855	7.948E-08	4.07E-09	0.00E+00	8.36E-08	7.95E-08	4.07E-09	0.00E+00	8.36E-08	2.38E-08	7.33E-10	0.00E+00	2.45E-08	9.02E-09	2.37E-10	0.00E+00	9.25E-09
1805	457391.5	3767855	7.934E-08	4.07E-09	0.00E+00	8.34E-08	7.93E-08	4.07E-09	0.00E+00	8.34E-08	2.38E-08	7.31E-10	0.00E+00	2.45E-08	9.00E-09	2.36E-10	0.00E+00	9.24E-09
1806	457381.6	3767855	7.903E-08	4.05E-09	0.00E+00	8.31E-08	7.90E-08	4.05E-09	0.00E+00	8.31E-08	2.37E-08	7.29E-10	0.00E+00	2.44E-08	8.97E-09	2.35E-10	0.00E+00	9.20E-09
1807	457371.6	3767855	7.856E-08	4.03E-09	0.00E+00	8.26E-08	7.86E-08	4.03E-09	0.00E+00	8.26E-08	2.35E-08	7.24E-10	0.00E+00	2.43E-08	8.91E-09	2.34E-10	0.00E+00	9.15E-09
1808	457361.7	3767855	7.793E-08	4.00E-09	0.00E+00	8.19E-08	7.79E-08	4.00E-09	0.00E+00	8.19E-08	2.33E-08	7.18E-10	0.00E+00	2.41E-08	8.84E-09	2.32E-10	0.00E+00	9.07E-09
1809	457351.7	3767855	7.718E-08	3.96E-09	0.00E+00	8.11E-08	7.72E-08	3.96E-09	0.00E+00	8.11E-08	2.31E-08	7.11E-10	0.00E+00	2.38E-08	8.76E-09	2.30E-10	0.00E+00	8.99E-09
1810	457341.8	3767855	7.629E-08	3.91E-09	0.00E+00	8.02E-08	7.63E-08	3.91E-09	0.00E+00	8.02E-08	2.29E-08	7.03E-10	0.00E+00	2.36E-08	8.66E-09	2.27E-10	0.00E+00	8.88E-09
1811	457331.8	3767855	7.525E-08	3.86E-09	0.00E+00	7.91E-08	7.53E-08	3.86E-09	0.00E+00	7.91E-08	2.25E-08	6.94E-10	0.00E+00	2.32E-08	8.54E-09	2.24E-10	0.00E+00	8.76E-09
1812	457823.1	3767880	2.066E-08	1.06E-09	0.00E+00	2.17E-08	2.07E-08	1.06E-09	0.00E+00	2.17E-08	6.19E-09	1.90E-10	0.00E+00	6.38E-09	2.34E-09	6.15E-11	0.00E+00	2.40E-09
1813	457831.9	3767884	2.024E-08	1.04E-09	0.00E+00	2.13E-08	2.02E-08	1.04E-09	0.00E+00	2.13E-08	6.06E-09	1.87E-10	0.00E+00	6.25E-09	2.30E-09	6.02E-11	0.00E+00	2.36E-09
1814	457844.4	3767896	2.027E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.07E-09	1.87E-10	0.00E+00	6.26E-09	2.30E-09	6.03E-11	0.00E+00	2.36E-09
1815	457848.1	3767905	2.075E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.41E-09	2.35E-09	6.17E-11	0.00E+00	2.42E-09
1816	457851.8	3767914	2.128E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.37E-09	1.96E-10	0.00E+00	6.57E-09	2.41E-09	6.33E-11	0.00E+00	2.48E-09
1817	457855.6	3767922	2.187E-08	1.12E-09	0.00E+00	2.30E-08	2.19E-08	1.12E-09	0.00E+00	2.30E-08	6.55E-09	2.02E-10	0.00E+00	6.75E-09	2.48E-09	6.51E-11	0.00E+00	2.55E-09
1818	457859.3	3767931	2.254E-08	1.16E-09	0.00E+00	2.37E-08	2.25E-08	1.16E-09	0.00E+00	2.37E-08	6.75E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.71E-11	0.00E+00	2.62E-09
1819	457863	3767940	2.328E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.15E-10	0.00E+00	7.19E-09	2.64E-09	6.93E-11	0.00E+00	2.71E-09
1820	457866.7	3767949	2.41E-08	1.24E-09	0.00E+00	2.53E-08	2.41E-08	1.24E-09	0.00E+00	2.53E-08	7.22E-09	2.22E-10	0.00E+00	7.44E-09	2.73E-09	7.17E-11	0.00E+00	2.81E-09
1821	457870.4	3767957	2.501E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.49E-09	2.31E-10	0.00E+00	7.72E-09	2.84E-09	7.44E-11	0.00E+00	2.91E-09
1822	457874.1	3767966	2.599E-08	1.33E-09	0.00E+00	2.73E-08	2.60E-08	1.33E-09	0.00E+00	2.73E-08	7.78E-09	2.40E-10	0.00E+00	8.02E-09	2.95E-09	7.73E-11	0.00E+00	3.03E-09
1823	457877.9	3767975	2.707E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.11E-09	2.50E-10	0.00E+00	8.36E-09	3.07E-09	8.06E-11	0.00E+00	3.15E-09
1824	457881.6	3767984	2.826E-08	1.45E-09	0.00E+00	2.97E-08	2.83E-08	1.45E-09	0.00E+00	2.97E-08	8.46E-09	2.60E-10	0.00E+00	8.72E-09	3.21E-09	8.41E-11	0.00E+00	3.29E-09
1825	457885.3	3767992	2.955E-08	1.51E-09	0.00E+00	3.11E-08	2.95E-08	1.51E-09	0.00E+00	3.11E-08	8.85E-09	2.72E-10	0.00E+00	9.12E-09	3.35E-09	8.79E-11	0.00E+00	3.44E-09
1826	457889	3768001	3.094E-08	1.59E-09	0.00E+00	3.25E-08	3.09E-08	1.59E-09	0.00E+00	3.25E-08	9.27E-09	2.85E-10	0.00E+00	9.55E-09	3.51E-09	9.21E-11	0.00E+00	3.60E-09
1827	457892.7	3768010	3.243E-08	1.66E-09	0.00E+00	3.41E-08	3.24E-08	1.66E-09	0.00E+00	3.41E-08	9.71E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.65E-11	0.00E+00	3.78E-09
1828	457896.5	3768019	3.4E-08	1.74E-09	0.00E+00	3.57E-08	3.40E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
1829	457689.9	3767830	3.205E-08	1.64E-09	0.00E+00	3.37E-08	3.21E-08	1.64E-09	0.00E+00	3.37E-08	9.60E-09	2.95E-10	0.00E+00	9.90E-09	3.64E-09	9.54E-11	0.00E+00	3.73E-09
1830	457680	3767830	3.366E-08	1.73E-09	0.00E+00	3.54E-08	3.37E-08	1.73E-09	0.00E+00	3.54E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.82E-09	1.00E-10	0.00E+00	3.92E-09
1831	457670	3767830	3.532E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.01E-09	1.05E-10	0.00E+00	4.11E-09
1832	457660.1	3767830	3.704E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
1833	457650.1	3767830	3.881E-08	1.99E-09	0.00E+00	4.08E-08	3.88E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.40E-09	1.15E-10	0.00E+00	4.52E-09
1834	457640.2	3767830	4.062E-08	2.08E-09	0.00E+00	4.27E-08	4.06E-08	2.08E-09	0.00E+00	4.27E-08	1.22E-08	3.74E-10	0.00E+00	1.25E-08	4.61E-09	1.21E-10	0.00E+00	4.73E-09
1835	457630.2	3767830	4.246E-08	2.18E-09	0.00E+00	4.46E-08	4.25E-08	2.18E-09	0.00E+00	4.46E-08	1.27E-08	3.91E-10	0.00E+00	1.31E-08	4.82E-09	1.26E-10	0.00E+00	4.94E-09
1836	457620.3	3767830	4.43E-08	2.27E-09	0.00E+00	4.66E-08	4.43E-08	2.27E-09	0.00E+00	4.66E-08	1.33E-08	4.08E-10	0.00E+00	1.37E-08	5.03E-09	1.32E-10	0.00E+00	5.16E-09
1837	457610.3	3767830	4.616E-08	2.37E-09	0.00E+00	4.85E-08	4.62E-08	2.37E-09	0.00E+00	4.85E-08	1.38E-08	4.25E-10	0.00E+00	1.43E-08	5.24E-09	1.37E-10	0.00E+00	5.37E-09
1838	457600.4	3767830	4.801E-08	2.46E-09	0.00E+00	5.05E-08	4.80E-08	2.46E-09	0.00E+00	5.05E-08	1.44E-08	4.43E-10	0.00E+00	1.48E-08	5.45E-09	1.43E-10	0.00E+00	5.59E-09
1839	457590.4	3767830	4.982E-08	2.55E-09	0.00E+00	5.24E-08	4.98E-08	2.55E-09	0.00E+00	5.24E-08	1.49E-08	4.59E-10	0.00E+00	1.54E-08	5.65E-09	1.48E-10	0.00E+00	5.80E-09
1840	457580.5	3767830	5.16E-08	2.65E-09	0.00E+00	5.42E-08	5.16E-08	2.65E-09	0.00E+00	5.42E-08	1.55E-08	4.76E-10	0.00E+00	1.59E-08	5.85E-09	1.54E-10	0.00E+00	6.01E-09
1841	457570.5	3767830	5.334E-08	2.73E-09	0.00E+00	5.61E-08	5.33E-08	2.73E-09	0.00E+00	5.61E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.05E-09	1.59E-10	0.00E+00	6.21E-09
1842	457560.6	3767830	5.506E-08	2.82E-09	0.00E+00	5.79E-08	5.51E-08	2.82E-09	0.00E+00	5.79E-08	1.65E-08	5.08E-10	0.00E+00	1.70E-08	6.25E-09	1.64E-10	0.00E+00	6.41E-09
1843	457550.6	3767830	5.672E-08	2.91E-09	0.00E+00	5.96E-08	5.67E-08	2.91E-09	0.00E+00	5.96E-08	1.70E-08	5.23E-10	0.00E+00	1.75E-08	6.44E-09	1.69E-10	0.00E+00	6.60E-09
1844	457540.7	3767830	5.832E-08	2.99E-09	0.00E+00	6.13E-08	5.83E-08	2.99E-09	0.00E+00	6.13E-08	1.75E-08	5.38E-10	0.00E+00	1.80E-08	6.62E-09	1.74E-10	0.00E+00	6.79E-09
1845	457530.8	3767830	5.984E-08	3.07E-09	0.00E+00	6.29E-08	5.98E-08	3.07E-09	0.00E+00	6.29E-08	1.79E-08	5.52E-10	0.00E+00	1.85E-08	6.79E-09	1.78E-10	0.00E+00	6.97E-09
1846	457520.8	3767830	6.128E-08	3.14E-09	0.00E+00	6.44E-08	6.13E-08	3.14E-09	0.00E+00	6.44E-08	1.84E-08	5.65E-10	0.00E+00	1.89E-08	6.95E-09	1.82E-10	0.00E+00	7.13E-09
1847	457510.9	3767830	6.263E-08	3.21E-09	0.00E+00	6.58E-08	6.26E-08	3.21E-09	0.00E+00	6.58E-08	1.88E-08	5.77E-10	0.00E+00	1.93E-08	7.11E-09	1.86E-10	0.00E+00	7.29E-09
1848	457500.9	3767830	6.387E-08	3.27E-09	0.00E+00	6.71E-08	6.39E-08	3.27E-09	0.00E+00	6.71E-08	1.91E-08	5.89E-10	0.00E+00	1.97E-08	7.25E-09	1.90E-10	0.00E+00	7.44E-09
1849	457491	3767830	6.501E-08	3.33E-09	0.00E+00	6.83E-08	6.50E-08	3.33E-09	0.00E+00	6.83E-08	1.95E-08	5.99E-10	0.00E+00	2.01E-08	7.38E-09	1.93E-10	0.00E+00	7.57E-09
1850	457481	3767830	6.604E-08	3.39E-09	0.00E+00	6.94E-08	6.60E-08	3.39E-09	0.00E+00	6.94E-08	1.98E-08	6.09E-10	0.00E+00	2.04E-08	7.49E-09	1.97E-10	0.00E+00	7.69E-09
1851	457471.1	3767830	6.7E-08	3.44E-09	0.00E+00	7.04E-08	6.70E-08	3.44E-09	0.00E+00	7.04E-08	2.01E-08	6.18E-10	0.00E+00	2.07E-08	7.60E-09	1.99E-10	0.00E+00	7.80E-09
1852	457461.1	3767830	6.786E-08	3.48E-09	0.00E+00	7.13E-08	6.79E-08	3.48E-09	0.00E+00	7.13E-08	2.03E-08	6.26E-10	0.00E+00	2.10E-08	7.70E-09	2.02E-10	0.00E+00	7.90E-09
1853	457451.2	3767830	6.862E-08	3.52E-09	0.00E+00	7.21E-08	6.86E-08	3.52E-09	0.00E+00	7.21E-08	2.06E-08	6.33E-10	0.00E+00	2.12E-08	7.78E-09	2.04E-10	0.00E+00	7.99E-09
1854	457441.2	3767830	6.925E-08	3.55E-09	0.00E+00	7.28E-08	6.92E-08	3.55E-09	0.00E+00	7.28E-08	2.07E-08	6.38E-10	0.00E+00	2.14E-08	7.86E-09	2.06E-10	0.00E+00	8.06E-09
1855	457431.3	3767830	6.977E-08	3.58E-09	0.00E+00	7.33E-08	6.98E-08	3.58E-09	0.00E+00	7.33E-08	2.09E-08	6.43E-10	0.00E+00	2.15E-08	7.92E-09	2.08E-10	0.00E+00	8.12E-09
1856	457421.3	3767830	7.016E-08	3.60E-09	0.00E+00	7.38E-08	7.02E-08	3.60E-09	0.00E+00	7.38E-08	2.10E-08	6.47E-10	0.00E+00	2.17E-08	7.96E-09	2.09E-10	0.00E+00	8.17E-09
1857	457411.4	3767830	7.039E-08	3.61E-09	0.00E+00	7.40E-08	7.04E-08	3.61E-09	0.00E+00	7.40E-08	2.11E-08	6.49E-10	0.00E+00	2.17E-08	7.99E-09	2.09E-10	0.00E+00	8.19E-09
1858	457401.4	3767830	7.046E-08	3.61E-09	0.00E+00	7.41E-08	7.05E-08	3.61E-09	0.00E+00	7.41E-08	2.11E-08	6.50E-10	0.00E+00	2.18E-08	7.99E-09	2.10E-10	0.00E+00	8.20E-09
1859	457391.5	3767830	7.041E-08	3.61E-09	0.00E+00	7.40E-08	7.04E-08	3.61E-09	0.00E+00	7.40E-08	2.11E-08	6.49E-10	0.00E+00	2.17E-08	7.99E-09	2.10E-10	0.00E+00	8.20E-09
1860	457381.5	3767830	7.029E-08	3.60E-09	0.00E+00	7.39E-08	7.03E-08	3.60E-09	0.00E+00	7.39E-08	2.11E-08	6.48E-10	0.00E+00	2.17E-08	7.97E-09	2.09E-10	0.00E+00	8.18E-09
1861	457371.6	3767830	7.004E-08	3.59E-09	0.00E+00	7.36E-08	7.00E-08	3.59E-09	0.00E+00	7.36E-08	2.10E-08	6.46E-10	0.00E+00	2.16E-08	7.95E-09	2.08E-10	0.00E+00	8.15E-09
1862	457361.6	3767830	6.966E-08	3.57E-09	0.00E+00	7.32E-08	6.97E-08	3.57E-09	0.00E+00	7.32E-08	2.09E-08	6.42E-10	0.00E+00	2.15E-08	7.90E-09	2.07E-10	0.00E+00	8.11E-09
1863	457351.7	3767830	6.915E-08	3.55E-09	0.00E+00	7.27E-08	6.92E-08	3.55E-09	0.00E+00	7.27E-08	2.07E-08	6.37E-10	0.00E+00	2.13E-08	7.85E-09	2.06E-10	0.00E+00	8.05E-09
1864	457341.7	3767830	6.852E-08	3.51E-09	0.00E+00	7.20E-08	6.85E-08	3.51E-09	0.00E+00	7.20E-08	2.05E-08	6.32E-10	0.00E+00	2.12E-08	7.77E-09	2.04E-10	0.00E+00	7.98E-09
1865	457331.8	3767830	6.775E-08	3.47E-09	0.00E+00	7.12E-08	6.78E-08	3.47E-09	0.00E+00	7.12E-08	2.03E-08	6.25E-10	0.00E+00	2.09E-08	7.69E-09	2.02E-10	0.00E+00	7.89E-09
1866	457726.2	3767815	2.544E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.62E-09	2.35E-10	0.00E+00	7.86E-09	2.89E-09	7.57E-11	0.00E+00	2.96E-09
1867	457735	3767819	2.472E-08	1.27E-09	0.00E+00	2.60E-08	2.47E-08	1.27E-09	0.00E+00	2.60E-08	7.40E-09	2.28E-10	0.00E+00	7.63E-09	2.80E-09	7.35E-11	0.00E+00	2.88E-09
1868	457743.8	3767823	2.401E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.19E-09	2.21E-10	0.00E+00	7.41E-09	2.72E-09	7.14E-11	0.00E+00	2.80E-09
1869	457752.6	3767826	2.332E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.99E-09	2.15E-10	0.00E+00	7.20E-09	2.65E-09	6.94E-11	0.00E+00	2.72E-09
1870	457865.7	3767887	1.819E-08	9.33E-10	0.00E+00	1.91E-08	1.82E-08	9.33E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
1871	457869.4	3767896	1.861E-08	9.54E-10	0.00E+00	1.96E-08	1.86E-08	9.54E-10	0.00E+00	1.96E-08	5.57E-09	1.72E-10	0.00E+00	5.74E-09	2.11E-09	5.54E-11	0.00E+00	2.17E-09
1872	457873.1	3767904	1.907E-08	9.78E-10	0.00E+00	2.01E-08	1.91E-08	9.78E-10	0.00E+00	2.01E-08	5.71E-09	1.76E-10	0.00E+00	5.89E-09	2.16E-09	5.68E-11	0.00E+00	2.22E-09
1873	457876.8	3767913	1.959E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.87E-09	1.81E-10	0.00E+00	6.05E-09	2.22E-09	5.83E-11	0.00E+00	2.28E-09
1874	457880.6	3767922	2.016E-08	1.03E-09	0.00E+00	2.12E-08	2.02E-08	1.03E-09	0.00E+00	2.12E-08	6.04E-09	1.86E-10	0.00E+00	6.22E-09	2.29E-09	6.00E-11	0.00E+00	2.35E-09
1875	457884.3	3767931	2.08E-08	1.07E-09	0.00E+00	2.19E-08	2.08E-08	1.07E-09	0.00E+00	2.19E-08	6.23E-09	1.92E-10	0.00E+00	6.42E-09	2.36E-09	6.19E-11	0.00E+00	2.42E-09
1876	457888	3767939	2.149E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
1877	457891.7	3767948	2.225E-08	1.14E-09	0.00E+00	2.34E-08	2.22E-08	1.14E-09	0.00E+00	2.34E-08	6.66E-09	2.05E-10	0.00E+00	6.87E-09	2.52E-09	6.62E-11	0.00E+00	2.59E-09
1878	457895.4	3767957	2.308E-08	1.18E-09	0.00E+00	2.43E-08	2.31E-08	1.18E-09	0.00E+00	2.43E-08	6.91E-09	2.13E-10	0.00E+00	7.12E-09	2.62E-09	6.87E-11	0.00E+00	2.69E-09
1879	457899.1	3767966	2.399E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.19E-09	2.21E-10	0.00E+00	7.41E-09	2.72E-09	7.14E-11	0.00E+00	2.79E-09
1880	457902.9	3767974	2.499E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.48E-09	2.30E-10	0.00E+00	7.71E-09	2.83E-09	7.44E-11	0.00E+00	2.91E-09
1881	457906.6	3767983	2.606E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.76E-11	0.00E+00	3.03E-09
1882	457910.3	3767992	2.722E-08	1.40E-09	0.00E+00	2.86E-08	2.72E-08	1.40E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.10E-11	0.00E+00	3.17E-09
1883	457914	3768001	2.844E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.52E-09	2.62E-10	0.00E+00	8.78E-09	3.23E-09	8.46E-11	0.00E+00	3.31E-09
1884	457917.7	3768009	2.974E-08	1.52E-09	0.00E+00	3.13E-08	2.97E-08	1.52E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.18E-09	3.37E-09	8.85E-11	0.00E+00	3.46E-09
1885	457921.5	3768018	3.11E-08	1.59E-09	0.00E+00	3.27E-08	3.11E-08	1.59E-09	0.00E+00	3.27E-08	9.31E-09	2.87E-10	0.00E+00	9.60E-09	3.53E-09	9.25E-11	0.00E+00	3.62E-09
1886	457689.9	3767805	2.9E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.69E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.63E-11	0.00E+00	3.38E-09
1887	457679.9	3767805	3.037E-08	1.56E-09	0.00E+00	3.19E-08	3.04E-08	1.56E-09	0.00E+00	3.19E-08	9.10E-09	2.80E-10	0.00E+00	9.38E-09	3.45E-09	9.04E-11	0.00E+00	3.54E-09
1888	457670	3767805	3.179E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.52E-09	2.93E-10	0.00E+00	9.81E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
1889	457660	3767805	3.326E-08	1.70E-09	0.00E+00	3.50E-08	3.33E-08	1.70E-09	0.00E+00	3.50E-08	9.96E-09	3.07E-10	0.00E+00	1.03E-08	3.77E-09	9.90E-11	0.00E+00	3.87E-09
1890	457650.1	3767805	3.476E-08	1.78E-09	0.00E+00	3.65E-08	3.48E-08	1.78E-09	0.00E+00	3.65E-08	1.04E-08	3.20E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.05E-09
1891	457640.2	3767805	3.629E-08	1.86E-09	0.00E+00	3.82E-08	3.63E-08	1.86E-09	0.00E+00	3.82E-08	1.09E-08	3.35E-10	0.00E+00	1.12E-08	4.12E-09	1.08E-10	0.00E+00	4.23E-09
1892	457630.2	3767805	3.785E-08	1.94E-09	0.00E+00	3.98E-08	3.79E-08	1.94E-09	0.00E+00	3.98E-08	1.13E-08	3.49E-10	0.00E+00	1.17E-08	4.29E-09	1.13E-10	0.00E+00	4.41E-09
1893	457620.3	3767805	3.941E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
1894	457610.3	3767805	4.098E-08	2.10E-09	0.00E+00	4.31E-08	4.10E-08	2.10E-09	0.00E+00	4.31E-08	1.23E-08	3.78E-10	0.00E+00	1.27E-08	4.65E-09	1.22E-10	0.00E+00	4.77E-09
1895	457600.4	3767805	4.253E-08	2.18E-09	0.00E+00	4.47E-08	4.25E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.83E-09	1.27E-10	0.00E+00	4.95E-09
1896	457590.4	3767805	4.41E-08	2.26E-09	0.00E+00	4.64E-08	4.41E-08	2.26E-09	0.00E+00	4.64E-08	1.32E-08	4.07E-10	0.00E+00	1.36E-08	5.00E-09	1.31E-10	0.00E+00	5.14E-09
1897	457580.5	3767805	4.566E-08	2.34E-09	0.00E+00	4.80E-08	4.57E-08	2.34E-09	0.00E+00	4.80E-08	1.37E-08	4.21E-10	0.00E+00	1.41E-08	5.18E-09	1.36E-10	0.00E+00	5.32E-09
1898	457570.5	3767805	4.719E-08	2.42E-09	0.00E+00	4.96E-08	4.72E-08	2.42E-09	0.00E+00	4.96E-08	1.41E-08	4.35E-10	0.00E+00	1.46E-08	5.35E-09	1.40E-10	0.00E+00	5.49E-09
1899	457560.6	3767805	4.868E-08	2.50E-09	0.00E+00	5.12E-08	4.87E-08	2.50E-09	0.00E+00	5.12E-08	1.46E-08	4.49E-10	0.00E+00	1.50E-08	5.52E-09	1.45E-10	0.00E+00	5.67E-09
1900	457550.6	3767805	5.014E-08	2.57E-09	0.00E+00	5.27E-08	5.01E-08	2.57E-09	0.00E+00	5.27E-08	1.50E-08	4.62E-10	0.00E+00	1.55E-08	5.69E-09	1.49E-10	0.00E+00	5.84E-09
1901	457540.7	3767805	5.154E-08	2.64E-09	0.00E+00	5.42E-08	5.15E-08	2.64E-09	0.00E+00	5.42E-08	1.54E-08	4.75E-10	0.00E+00	1.59E-08	5.85E-09	1.53E-10	0.00E+00	6.00E-09

1902	457530.7	3767805	5.286E-08	2.71E-09	0.00E+00	5.56E-08	5.29E-08	2.71E-09	0.00E+00	5.56E-08	1.58E-08	4.87E-10	0.00E+00	1.63E-08	6.00E-09	1.57E-10	0.00E+00	6.15E-09
1903	457520.8	3767805	5.412E-08	2.77E-09	0.00E+00	5.69E-08	5.41E-08	2.77E-09	0.00E+00	5.69E-08	1.62E-08	4.99E-10	0.00E+00	1.67E-08	6.14E-09	1.61E-10	0.00E+00	6.30E-09
1904	457510.8	3767805	5.53E-08	2.83E-09	0.00E+00	5.81E-08	5.53E-08	2.83E-09	0.00E+00	5.81E-08	1.66E-08	5.10E-10	0.00E+00	1.71E-08	6.27E-09	1.65E-10	0.00E+00	6.44E-09
1905	457500.9	3767805	5.644E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.57E-09
1906	457490.9	3767805	5.751E-08	2.95E-09	0.00E+00	6.05E-08	5.75E-08	2.95E-09	0.00E+00	6.05E-08	1.72E-08	5.30E-10	0.00E+00	1.78E-08	6.52E-09	1.71E-10	0.00E+00	6.70E-09
1907	457481	3767805	5.85E-08	3.00E-09	0.00E+00	6.15E-08	5.85E-08	3.00E-09	0.00E+00	6.15E-08	1.75E-08	5.39E-10	0.00E+00	1.81E-08	6.64E-09	1.74E-10	0.00E+00	6.81E-09
1908	457471	3767805	5.941E-08	3.05E-09	0.00E+00	6.25E-08	5.94E-08	3.05E-09	0.00E+00	6.25E-08	1.78E-08	5.48E-10	0.00E+00	1.83E-08	6.74E-09	1.77E-10	0.00E+00	6.92E-09
1909	457461.1	3767805	6.022E-08	3.09E-09	0.00E+00	6.33E-08	6.02E-08	3.09E-09	0.00E+00	6.33E-08	1.80E-08	5.55E-10	0.00E+00	1.86E-08	6.83E-09	1.79E-10	0.00E+00	7.01E-09
1910	457451.1	3767805	6.094E-08	3.12E-09	0.00E+00	6.41E-08	6.09E-08	3.12E-09	0.00E+00	6.41E-08	1.83E-08	5.62E-10	0.00E+00	1.88E-08	6.91E-09	1.81E-10	0.00E+00	7.10E-09
1911	457441.2	3767805	6.157E-08	3.16E-09	0.00E+00	6.47E-08	6.16E-08	3.16E-09	0.00E+00	6.47E-08	1.84E-08	5.68E-10	0.00E+00	1.90E-08	6.98E-09	1.83E-10	0.00E+00	7.17E-09
1912	457431.2	3767805	6.209E-08	3.18E-09	0.00E+00	6.53E-08	6.21E-08	3.18E-09	0.00E+00	6.53E-08	1.86E-08	5.72E-10	0.00E+00	1.92E-08	7.04E-09	1.85E-10	0.00E+00	7.23E-09
1913	457421.3	3767805	6.251E-08	3.20E-09	0.00E+00	6.57E-08	6.25E-08	3.20E-09	0.00E+00	6.57E-08	1.87E-08	5.76E-10	0.00E+00	1.93E-08	7.09E-09	1.86E-10	0.00E+00	7.28E-09
1914	457411.3	3767805	6.279E-08	3.22E-09	0.00E+00	6.60E-08	6.28E-08	3.22E-09	0.00E+00	6.60E-08	1.88E-08	5.79E-10	0.00E+00	1.94E-08	7.12E-09	1.87E-10	0.00E+00	7.31E-09
1915	457401.4	3767805	6.295E-08	3.23E-09	0.00E+00	6.62E-08	6.30E-08	3.23E-09	0.00E+00	6.62E-08	1.89E-08	5.80E-10	0.00E+00	1.94E-08	7.14E-09	1.87E-10	0.00E+00	7.33E-09
1916	457391.4	3767805	6.3E-08	3.23E-09	0.00E+00	6.62E-08	6.30E-08	3.23E-09	0.00E+00	6.62E-08	1.89E-08	5.81E-10	0.00E+00	1.95E-08	7.15E-09	1.87E-10	0.00E+00	7.34E-09
1917	457381.5	3767805	6.299E-08	3.23E-09	0.00E+00	6.62E-08	6.30E-08	3.23E-09	0.00E+00	6.62E-08	1.89E-08	5.81E-10	0.00E+00	1.94E-08	7.15E-09	1.87E-10	0.00E+00	7.33E-09
1918	457371.5	3767805	6.287E-08	3.22E-09	0.00E+00	6.61E-08	6.29E-08	3.22E-09	0.00E+00	6.61E-08	1.88E-08	5.80E-10	0.00E+00	1.94E-08	7.13E-09	1.87E-10	0.00E+00	7.32E-09
1919	457361.6	3767805	6.264E-08	3.21E-09	0.00E+00	6.59E-08	6.26E-08	3.21E-09	0.00E+00	6.59E-08	1.88E-08	5.77E-10	0.00E+00	1.93E-08	7.11E-09	1.86E-10	0.00E+00	7.29E-09
1920	457351.6	3767805	6.231E-08	3.19E-09	0.00E+00	6.55E-08	6.23E-08	3.19E-09	0.00E+00	6.55E-08	1.87E-08	5.74E-10	0.00E+00	1.92E-08	7.07E-09	1.85E-10	0.00E+00	7.25E-09
1921	457341.7	3767805	6.186E-08	3.17E-09	0.00E+00	6.50E-08	6.19E-08	3.17E-09	0.00E+00	6.50E-08	1.85E-08	5.70E-10	0.00E+00	1.91E-08	7.02E-09	1.84E-10	0.00E+00	7.20E-09
1922	457331.7	3767805	6.131E-08	3.14E-09	0.00E+00	6.45E-08	6.13E-08	3.14E-09	0.00E+00	6.45E-08	1.84E-08	5.65E-10	0.00E+00	1.89E-08	6.96E-09	1.82E-10	0.00E+00	7.14E-09
1923	457726.2	3767790	2.336E-08	1.20E-09	0.00E+00	2.46E-08	2.34E-08	1.20E-09	0.00E+00	2.46E-08	7.00E-09	2.15E-10	0.00E+00	7.21E-09	2.65E-09	6.95E-11	0.00E+00	2.72E-09
1924	457735	3767794	2.273E-08	1.17E-09	0.00E+00	2.39E-08	2.27E-08	1.17E-09	0.00E+00	2.39E-08	6.81E-09	2.09E-10	0.00E+00	7.02E-09	2.58E-09	6.76E-11	0.00E+00	2.65E-09
1925	457743.8	3767798	2.21E-08	1.13E-09	0.00E+00	2.32E-08	2.21E-08	1.13E-09	0.00E+00	2.32E-08	6.62E-09	2.04E-10	0.00E+00	6.82E-09	2.51E-09	6.58E-11	0.00E+00	2.57E-09
1926	457752.6	3767801	2.15E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.64E-09	2.44E-09	6.40E-11	0.00E+00	2.50E-09
1927	457761.4	3767805	2.091E-08	1.07E-09	0.00E+00	2.20E-08	2.09E-08	1.07E-09	0.00E+00	2.20E-08	6.26E-09	1.93E-10	0.00E+00	6.46E-09	2.37E-09	6.22E-11	0.00E+00	2.43E-09
1928	457770.2	3767808	2.035E-08	1.04E-09	0.00E+00	2.14E-08	2.03E-08	1.04E-09	0.00E+00	2.14E-08	6.09E-09	1.88E-10	0.00E+00	6.28E-09	2.31E-09	6.06E-11	0.00E+00	2.37E-09
1929	457779	3767812	1.981E-08	1.02E-09	0.00E+00	2.08E-08	1.98E-08	1.02E-09	0.00E+00	2.08E-08	5.93E-09	1.83E-10	0.00E+00	6.12E-09	2.25E-09	5.90E-11	0.00E+00	2.31E-09
1930	457787.8	3767816	1.929E-08	9.89E-10	0.00E+00	2.03E-08	1.93E-08	9.89E-10	0.00E+00	2.03E-08	5.78E-09	1.78E-10	0.00E+00	5.96E-09	2.19E-09	5.74E-11	0.00E+00	2.25E-09
1931	457796.6	3767819	1.88E-08	9.64E-10	0.00E+00	1.98E-08	1.88E-08	9.64E-10	0.00E+00	1.98E-08	5.63E-09	1.73E-10	0.00E+00	5.80E-09	2.13E-09	5.59E-11	0.00E+00	2.19E-09
1932	457805.4	3767823	1.833E-08	9.40E-10	0.00E+00	1.93E-08	1.83E-08	9.40E-10	0.00E+00	1.93E-08	5.49E-09	1.69E-10	0.00E+00	5.66E-09	2.08E-09	5.45E-11	0.00E+00	2.13E-09
1933	457814.2	3767826	1.789E-08	9.17E-10	0.00E+00	1.88E-08	1.79E-08	9.17E-10	0.00E+00	1.88E-08	5.36E-09	1.65E-10	0.00E+00	5.52E-09	2.03E-09	5.32E-11	0.00E+00	2.08E-09
1934	457890.7	3767887	1.682E-08	8.62E-10	0.00E+00	1.77E-08	1.68E-08	8.62E-10	0.00E+00	1.77E-08	5.04E-09	1.55E-10	0.00E+00	5.19E-09	1.91E-09	5.00E-11	0.00E+00	1.96E-09
1935	457894.4	3767895	1.723E-08	8.83E-10	0.00E+00	1.81E-08	1.72E-08	8.83E-10	0.00E+00	1.81E-08	5.16E-09	1.59E-10	0.00E+00	5.32E-09	1.95E-09	5.13E-11	0.00E+00	2.01E-09
1936	457898.1	3767904	1.768E-08	9.06E-10	0.00E+00	1.86E-08	1.77E-08	9.06E-10	0.00E+00	1.86E-08	5.29E-09	1.63E-10	0.00E+00	5.46E-09	2.01E-09	5.26E-11	0.00E+00	2.06E-09
1937	457901.8	3767913	1.818E-08	9.32E-10	0.00E+00	1.91E-08	1.82E-08	9.32E-10	0.00E+00	1.91E-08	5.44E-09	1.68E-10	0.00E+00	5.61E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
1938	457905.6	3767922	1.873E-08	9.60E-10	0.00E+00	1.97E-08	1.87E-08	9.60E-10	0.00E+00	1.97E-08	5.61E-09	1.73E-10	0.00E+00	5.78E-09	2.12E-09	5.57E-11	0.00E+00	2.18E-09
1939	457909.3	3767930	1.933E-08	9.91E-10	0.00E+00	2.03E-08	1.93E-08	9.91E-10	0.00E+00	2.03E-08	5.79E-09	1.78E-10	0.00E+00	5.97E-09	2.19E-09	5.75E-11	0.00E+00	2.25E-09
1940	457913	3767939	1.998E-08	1.02E-09	0.00E+00	2.10E-08	2.00E-08	1.02E-09	0.00E+00	2.10E-08	5.98E-09	1.84E-10	0.00E+00	6.17E-09	2.27E-09	5.94E-11	0.00E+00	2.33E-09
1941	457916.7	3767948	2.068E-08	1.06E-09	0.00E+00	2.17E-08	2.07E-08	1.06E-09	0.00E+00	2.17E-08	6.19E-09	1.91E-10	0.00E+00	6.39E-09	2.35E-09	6.15E-11	0.00E+00	2.41E-09
1942	457920.4	3767957	2.145E-08	1.10E-09	0.00E+00	2.25E-08	2.15E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
1943	457924.1	3767965	2.229E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.68E-09	2.06E-10	0.00E+00	6.88E-09	2.53E-09	6.63E-11	0.00E+00	2.60E-09
1944	457927.9	3767974	2.32E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.95E-09	2.14E-10	0.00E+00	7.16E-09	2.63E-09	6.90E-11	0.00E+00	2.70E-09
1945	457931.6	3767983	2.416E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.24E-09	2.23E-10	0.00E+00	7.46E-09	2.74E-09	7.19E-11	0.00E+00	2.81E-09
1946	457935.3	3767992	2.519E-08	1.29E-09	0.00E+00	2.65E-08	2.52E-08	1.29E-09	0.00E+00	2.65E-08	7.54E-09	2.32E-10	0.00E+00	7.78E-09	2.86E-09	7.50E-11	0.00E+00	2.93E-09
1947	457939	3768000	2.627E-08	1.35E-09	0.00E+00	2.76E-08	2.63E-08	1.35E-09	0.00E+00	2.76E-08	7.87E-09	2.42E-10	0.00E+00	8.11E-09	2.98E-09	7.82E-11	0.00E+00	3.06E-09
1948	457942.7	3768009	2.741E-08	1.41E-09	0.00E+00	2.88E-08	2.74E-08	1.41E-09	0.00E+00	2.88E-08	8.21E-09	2.53E-10	0.00E+00	8.46E-09	3.11E-09	8.16E-11	0.00E+00	3.19E-09
1949	457946.5	3768018	2.859E-08	1.47E-09	0.00E+00	3.01E-08	2.86E-08	1.47E-09	0.00E+00	3.01E-08	8.56E-09	2.64E-10	0.00E+00	8.83E-09	3.24E-09	8.51E-11	0.00E+00	3.33E-09
1950	457689.9	3767780	2.645E-08	1.36E-09	0.00E+00	2.78E-08	2.65E-08	1.36E-09	0.00E+00	2.78E-08	7.92E-09	2.44E-10	0.00E+00	8.17E-09	3.00E-09	7.87E-11	0.00E+00	3.08E-09
1951	457679.9	3767780	2.763E-08	1.42E-09	0.00E+00	2.90E-08	2.76E-08	1.42E-09	0.00E+00	2.90E-08	8.28E-09	2.55E-10	0.00E+00	8.53E-09	3.13E-09	8.22E-11	0.00E+00	3.22E-09
1952	457670	3767780	2.885E-08	1.48E-09	0.00E+00	3.03E-08	2.89E-08	1.48E-09	0.00E+00	3.03E-08	8.64E-09	2.66E-10	0.00E+00	8.91E-09	3.27E-09	8.59E-11	0.00E+00	3.36E-09
1953	457660	3767780	3.011E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.02E-09	2.78E-10	0.00E+00	9.29E-09	3.42E-09	8.96E-11	0.00E+00	3.51E-09
1954	457650.1	3767780	3.138E-08	1.61E-09	0.00E+00	3.30E-08	3.14E-08	1.61E-09	0.00E+00	3.30E-08	9.40E-09	2.89E-10	0.00E+00	9.69E-09	3.56E-09	9.34E-11	0.00E+00	3.65E-09
1955	457640.1	3767780	3.269E-08	1.68E-09	0.00E+00	3.44E-08	3.27E-08	1.68E-09	0.00E+00	3.44E-08	9.79E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.73E-11	0.00E+00	3.81E-09
1956	457630.2	3767780	3.401E-08	1.74E-09	0.00E+00	3.58E-08	3.40E-08	1.74E-09	0.00E+00	3.58E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
1957	457620.2	3767780	3.535E-08	1.81E-09	0.00E+00	3.72E-08	3.54E-08	1.81E-09	0.00E+00	3.72E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.01E-09	1.05E-10	0.00E+00	4.12E-09
1958	457610.3	3767780	3.671E-08	1.88E-09	0.00E+00	3.86E-08	3.67E-08	1.88E-09	0.00E+00	3.86E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.17E-09	1.09E-10	0.00E+00	4.27E-09
1959	457600.3	3767780	3.807E-08	1.95E-09	0.00E+00	4.00E-08	3.81E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.51E-10	0.00E+00	1.18E-08	4.32E-09	1.13E-10	0.00E+00	4.43E-09
1960	457590.4	3767780	3.943E-08	2.02E-09	0.00E+00	4.15E-08	3.94E-08	2.02E-09	0.00E+00	4.15E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
1961	457580.4	3767780	4.078E-08	2.09E-09	0.00E+00	4.29E-08	4.08E-08	2.09E-09	0.00E+00	4.29E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.63E-09	1.21E-10	0.00E+00	4.75E-09
1962	457570.5	3767780	4.211E-08	2.16E-09	0.00E+00	4.43E-08	4.21E-08	2.16E-09	0.00E+00	4.43E-08	1.26E-08	3.88E-10	0.00E+00	1.30E-08	4.78E-09	1.25E-10	0.00E+00	4.90E-09
1963	457560.5	3767780	4.342E-08	2.23E-09	0.00E+00	4.56E-08	4.34E-08	2.23E-09	0.00E+00	4.56E-08	1.30E-08	4.00E-10	0.00E+00	1.34E-08	4.93E-09	1.29E-10	0.00E+00	5.05E-09
1964	457550.6	3767780	4.469E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.07E-09	1.33E-10	0.00E+00	5.20E-09
1965	457540.6	3767780	4.593E-08	2.35E-09	0.00E+00	4.83E-08	4.59E-08	2.35E-09	0.00E+00	4.83E-08	1.38E-08	4.23E-10	0.00E+00	1.42E-08	5.21E-09	1.37E-10	0.00E+00	5.35E-09
1966	457530.7	3767780	4.71E-08	2.41E-09	0.00E+00	4.95E-08	4.71E-08	2.41E-09	0.00E+00	4.95E-08	1.41E-08	4.34E-10	0.00E+00	1.45E-08	5.34E-09	1.40E-10	0.00E+00	5.48E-09
1967	457520.7	3767780	4.822E-08	2.47E-09	0.00E+00	5.07E-08	4.82E-08	2.47E-09	0.00E+00	5.07E-08	1.44E-08	4.45E-10	0.00E+00	1.49E-08	5.47E-09	1.43E-10	0.00E+00	5.61E-09
1968	457510.8	3767780	4.928E-08	2.53E-09	0.00E+00	5.18E-08	4.93E-08	2.53E-09	0.00E+00	5.18E-08	1.48E-08	4.54E-10	0.00E+00	1.52E-08	5.59E-09	1.47E-10	0.00E+00	5.74E-09
1969	457500.8	3767780	5.031E-08	2.58E-09	0.00E+00	5.29E-08	5.03E-08	2.58E-09	0.00E+00	5.29E-08	1.51E-08	4.64E-10	0.00E+00	1.55E-08	5.71E-09	1.50E-10	0.00E+00	5.86E-09
1970	457490.9	3767780	5.129E-08	2.63E-09	0.00E+00	5.39E-08	5.13E-08	2.63E-09	0.00E+00	5.39E-08	1.54E-08	4.73E-10	0.00E+00	1.58E-08	5.82E-09	1.53E-10	0.00E+00	5.97E-09
1971	457480.9	3767780	5.22E-08	2.68E-09	0.00E+00	5.49E-08	5.22E-08	2.68E-09	0.00E+00	5.49E-08	1.56E-08	4.81E-10	0.00E+00	1.61E-08	5.92E-09	1.55E-10	0.00E+00	6.08E-09
1972	457471	3767780	5.303E-08	2.72E-09	0.00E+00	5.58E-08	5.30E-08	2.72E-09	0.00E+00	5.58E-08	1.59E-08	4.89E-10	0.00E+00	1.64E-08	6.02E-09	1.58E-10	0.00E+00	6.17E-09
1973	457461	3767780	5.38E-08	2.76E-09	0.00E+00	5.66E-08	5.38E-08	2.76E-09	0.00E+00	5.66E-08	1.61E-08	4.96E-10	0.00E+00	1.66E-08	6.10E-09	1.60E-10	0.00E+00	6.26E-09
1974	457451.1	3767780	5.448E-08	2.79E-09	0.00E+00	5.73E-08	5.45E-08	2.79E-09	0.00E+00	5.73E-08	1.63E-08	5.02E-10	0.00E+00	1.68E-08	6.18E-09	1.62E-10	0.00E+00	6.34E-09
1975	457441.1	3767780	5.506E-08	2.82E-09	0.00E+00	5.79E-08	5.51E-08	2.82E-09	0.00E+00	5.79E-08	1.65E-08	5.08E-10	0.00E+00	1.70E-08	6.25E-09	1.64E-10	0.00E+00	6.41E-09
1976	457431.2	3767780	5.554E-08	2.85E-09	0.00E+00	5.84E-08	5.55E-08	2.85E-09	0.00E+00	5.84E-08	1.66E-08	5.12E-10	0.00E+00	1.71E-08	6.30E-09	1.65E-10	0.00E+00	6.47E-09
1977	457421.2	3767780	5.594E-08	2.87E-09	0.00E+00	5.88E-08	5.59E-08	2.87E-09	0.00E+00	5.88E-08	1.68E-08	5.16E-10	0.00E+00	1.73E-08	6.35E-09	1.66E-10	0.00E+00	6.51E-09
1978	457411.3	3767780	5.627E-08	2.88E-09	0.00E+00	5.92E-08	5.63E-08	2.88E-09	0.00E+00	5.92E-08	1.69E-08	5.19E-10	0.00E+00	1.74E-08	6.38E-09	1.67E-10	0.00E+00	6.55E-09
1979	457401.3	3767780	5.653E-08	2.90E-09	0.00E+00	5.94E-08	5.65E-08	2.90E-09	0.00E+00	5.94E-08	1.69E-08	5.21E-10	0.00E+00	1.75E-08	6.41E-09	1.68E-10	0.00E+00	6.58E-09
1980	457391.4	3767780	5.668E-08	2.91E-09	0.00E+00	5.96E-08	5.67E-08	2.91E-09	0.00E+00	5.96E-08	1.70E-08	5.23E-10	0.00E+00	1.75E-08	6.43E-09	1.69E-10	0.00E+00	6.60E-09
1981	457381.4	3767780	5.676E-08	2.91E-09	0.00E+00	5.97E-08	5.68E-08	2.91E-09	0.00E+00	5.97E-08	1.70E-08	5.23E-10	0.00E+00	1.75E-08	6.44E-09	1.69E-10	0.00E+00	6.61E-09
1982	457371.5	3767780	5.673E-08	2.91E-09	0.00E+00	5.96E-08	5.67E-08	2.91E-09	0.00E+00	5.96E-08	1.70E-08	5.23E-10	0.00E+00	1.75E-08	6.44E-09	1.69E-10	0.00E+00	6.61E-09
1983	457361.5	3767780	5.662E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
1984	457351.6	3767780	5.641E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.57E-09
1985	457341.6	3767780	5.611E-08	2.88E-09	0.00E+00	5.90E-08	5.61E-08	2.88E-09	0.00E+00	5.90E-08	1.68E-08	5.17E-10	0.00E+00	1.73E-08	6.37E-09	1.67E-10	0.00E+00	6.53E-09
1986	457331.7	3767780	5.572E-08	2.86E-09	0.00E+00	5.86E-08	5.57E-08	2.86E-09	0.00E+00	5.86E-08	1.67E-08	5.14E-10	0.00E+00	1.72E-08	6.32E-09	1.66E-10	0.00E+00	6.49E-09
1987	457726.2	3767765	2.157E-08	1.11E-09	0.00E+00	2.27E-08	2.16E-08	1.11E-09	0.00E+00	2.27E-08	6.46E-09	1.99E-10	0.00E+00	6.66E-09	2.45E-09	6.42E-11	0.00E+00	2.51E-09
1988	457735	3767769	2.101E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.94E-10	0.00E+00	6.49E-09	2.38E-09	6.25E-11	0.00E+00	2.45E-09
1989	457743.8	3767773	2.046E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.13E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.09E-11	0.00E+00	2.38E-09
1990	457752.6	3767776	1.992E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.97E-09	1.84E-10	0.00E+00	6.15E-09	2.26E-09	5.93E-11	0.00E+00	2.32E-09
1991	457761.4	3767780	1.94E-08	9.95E-10	0.00E+00	2.04E-08	1.94E-08	9.95E-10	0.00E+00	2.04E-08	5.81E-09	1.79E-10	0.00E+00	5.99E-09	2.20E-09	5.77E-11	0.00E+00	2.26E-09
1992	457770.2	3767783	1.89E-08	9.69E-10	0.00E+00	1.99E-08	1.89E-08	9.69E-10	0.00E+00	1.99E-08	5.66E-09	1.74E-10	0.00E+00	5.83E-09	2.14E-09	5.62E-11	0.00E+00	2.20E-09
1993	457779	3767787	1.841E-08	9.44E-10	0.00E+00	1.94E-08	1.84E-08	9.44E-10	0.00E+00	1.94E-08	5.51E-09	1.70E-10	0.00E+00	5.68E-09	2.09E-09	5.48E-11	0.00E+00	2.14E-09
1994	457787.8	3767791	1.794E-08	9.20E-10	0.00E+00	1.89E-08	1.79E-08	9.20E-10	0.00E+00	1.89E-08	5.37E-09	1.65E-10	0.00E+00	5.54E-09	2.04E-09	5.34E-11	0.00E+00	2.09E-09
1995	457796.6	3767794	1.749E-08	8.97E-10	0.00E+00	1.84E-08	1.75E-08	8.97E-10	0.00E+00	1.84E-08	5.24E-09	1.61E-10	0.00E+00	5.40E-09	1.98E-09	5.21E-11	0.00E+00	2.04E-09
1996	457805.4	3767798	1.707E-08	8.75E-10	0.00E+00	1.79E-08	1.71E-08	8.75E-10	0.00E+00	1.79E-08	5.11E-09	1.57E-10	0.00E+00	5.27E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
1997	457814.2	3767801	1.666E-08	8.54E-10	0.00E+00	1.75E-08	1.67E-08	8.54E-10	0.00E+00	1.75E-08	4.99E-09	1.54E-10	0.00E+00	5.14E-09	1.89E-09	4.96E-11	0.00E+00	1.94E-09
1998	457823	3767805	1.627E-08	8.34E-10	0.00E+00	1.71E-08	1.63E-08	8.34E-10	0.00E+00	1.71E-08	4.87E-09	1.50E-10	0.00E+00	5.02E-09	1.85E-09	4.84E-11	0.00E+00	1.89E-09
1999	457831.8	3767809	1.591E-08	8.15E-10	0.00E+00	1.67E-08	1.59E-08	8.15E-10	0.00E+00	1.67E-08	4.76E-09	1.47E-10	0.00E+00	4.91E-09	1.80E-09	4.73E-11	0.00E+00	1.85E-09
2000	457840.6	3767812	1.557E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.43E-10	0.00E+00	4.81E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
2001	457849.4	3767816	1.524E-08	7.82E-10	0.00E+00	1.60E-08	1.52E-08	7.82E-10	0.00E+00	1.60E-08	4.57E-09	1.41E-10	0.00E+00	4.71E-09	1.73E-09	4.54E-11	0.00E+00	1.77E-09
2002	457858.2	3767819	1.494E-08	7.66E-10	0.00E+00	1.57E-08	1.49E-08	7.66E-10	0.00E+00	1.57E-08	4.48E-09	1.38E-10	0.00E+00	4.61E-09	1.70E-09	4.45E-11	0.00E+00	1.74E-09
2003	457867	3767823	1.467E-08	7.52E-10	0.00E+00	1.54E-08	1.47E-08	7.52E-10	0.00E+00	1.54E-08	4.39E-09	1.35E-10	0.00E+00	4.53E-09	1.66E-09	4.36E-11	0.00E+00	1.71E-09
2004	457875.8	3767827	1.441E-08	7.39E-10	0.00E+00	1.51E-08	1.44E-08	7.39E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.45E-09	1.63E-09	4.29E-11	0.00E+00	1.68E-09
2005	457919.4	3767895	1.606E-08	8.23E-10	0.00E+00	1.69E-08	1.61E-08	8.23E-10	0.00E+00	1.69E-08	4.81E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
2006	457923.1	3767904	1.649E-08	8.46E-10	0.00E+00	1.73E-08	1.65E-08	8.46E-10	0.00E+00	1.73E-08	4.94E-09	1.52E-10	0.00E+00	5.09E-09	1.87E-09	4.91E-11	0.00E+00	1.92E-09
2007	457926.8	3767913	1.697E-08	8.70E-10	0.00E+00	1.78E-08	1.70E-08	8.70E-10	0.00E+00	1.78E-08	5.08E-09	1.56E-10	0.00E+00	5.24E-09	1.93E-09	5.05E-11	0.00E+00	1.98E-09
2008	457930.5	3767921	1.75E-08	8.97E-10	0.00E+00	1.84E-08	1.75E-08	8.97E-10	0.00E+00	1.84E-08	5.24E-09	1.61E-10	0.00E+00	5.40E-09	1.98E-09	5.21E-11	0.00E+00	2.04E-09
2009	457934.3	3767930	1.806E-08	9.26E-10	0.00E+00	1.90E-08	1.81E-08	9.26E-10	0.00E+00	1.90E-08	5.41E-09	1.66E-10	0.00E+00	5.58E-09	2.05E-09	5.37E-11	0.00E+00	2.10E-09
2010	457938	3767939	1.867E-08	9.57E-10	0.00E+00	1.96E-08	1.87E-08	9.57E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
2011	457941.7	3767948	1.933E-08	9.91E-10	0.00E+00	2.03E-08	1.93E-08	9.91E-10	0.00E+00	2.03E-08	5.79E-09	1.78E-10	0.00E+00	5.97E-09	2.19E-09	5.75E-11	0.00E+00	2.25E-09
2012	457945.4	3767956	2.004E-08	1.03E-09	0.00E+00	2.11E-08	2.00E-08	1.03E-09	0.00E+00	2.11E-08	6.00E-09	1.85E-10	0.00E+00	6.19E-09	2.27E-09	5.96E-11	0.00E+00	2.33E-09
2013	457949.1	3767965	2.081E-08	1.07E-09	0.00E+00	2.19E-08	2.08E-08	1.07E-09	0.00E+00	2.19E-08	6.23E-09	1.92E-10	0.00E+00	6.42E-09	2.36E-09	6.19E-11	0.00E+00	2.42E-09

2014	457952.9	3767974	2.163E-08	1.11E-09	0.00E+00	2.27E-08	2.16E-08	1.11E-09	0.00E+00	2.27E-08	6.48E-09	1.99E-10	0.00E+00	6.68E-09	2.45E-09	6.44E-11	0.00E+00	2.52E-09
2015	457956.6	3767983	2.25E-08	1.15E-09	0.00E+00	2.36E-08	2.25E-08	1.15E-09	0.00E+00	2.36E-08	6.74E-09	2.07E-10	0.00E+00	6.94E-09	2.55E-09	6.69E-11	0.00E+00	2.62E-09
2016	457960.3	3767991	2.341E-08	1.20E-09	0.00E+00	2.46E-08	2.34E-08	1.20E-09	0.00E+00	2.46E-08	7.01E-09	2.16E-10	0.00E+00	7.23E-09	2.66E-09	6.97E-11	0.00E+00	2.73E-09
2017	457964	3768000	2.437E-08	1.25E-09	0.00E+00	2.56E-08	2.44E-08	1.25E-09	0.00E+00	2.56E-08	7.30E-09	2.25E-10	0.00E+00	7.52E-09	2.76E-09	7.25E-11	0.00E+00	2.84E-09
2018	457967.7	3768009	2.536E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.60E-09	2.34E-10	0.00E+00	7.83E-09	2.88E-09	7.55E-11	0.00E+00	2.95E-09
2019	457971.5	3768018	2.639E-08	1.35E-09	0.00E+00	2.77E-08	2.64E-08	1.35E-09	0.00E+00	2.77E-08	7.90E-09	2.43E-10	0.00E+00	8.15E-09	2.99E-09	7.85E-11	0.00E+00	3.07E-09
2020	457689.8	3767755	2.428E-08	1.24E-09	0.00E+00	2.55E-08	2.43E-08	1.24E-09	0.00E+00	2.55E-08	7.27E-09	2.24E-10	0.00E+00	7.49E-09	2.75E-09	7.22E-11	0.00E+00	2.83E-09
2021	457679.9	3767755	2.53E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.58E-09	2.33E-10	0.00E+00	7.81E-09	2.87E-09	7.53E-11	0.00E+00	2.95E-09
2022	457669.9	3767755	2.636E-08	1.35E-09	0.00E+00	2.77E-08	2.64E-08	1.35E-09	0.00E+00	2.77E-08	7.89E-09	2.43E-10	0.00E+00	8.14E-09	2.99E-09	7.84E-11	0.00E+00	3.07E-09
2023	457660	3767755	2.744E-08	1.41E-09	0.00E+00	2.88E-08	2.74E-08	1.41E-09	0.00E+00	2.88E-08	8.22E-09	2.53E-10	0.00E+00	8.47E-09	3.11E-09	8.17E-11	0.00E+00	3.19E-09
2024	457650	3767755	2.855E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.55E-09	2.63E-10	0.00E+00	8.81E-09	3.24E-09	8.49E-11	0.00E+00	3.32E-09
2025	457640.1	3767755	2.967E-08	1.52E-09	0.00E+00	3.12E-08	2.97E-08	1.52E-09	0.00E+00	3.12E-08	8.89E-09	2.74E-10	0.00E+00	9.16E-09	3.37E-09	8.83E-11	0.00E+00	3.45E-09
2026	457630.1	3767755	3.081E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.23E-09	2.84E-10	0.00E+00	9.51E-09	3.50E-09	9.17E-11	0.00E+00	3.59E-09
2027	457620.2	3767755	3.198E-08	1.64E-09	0.00E+00	3.36E-08	3.20E-08	1.64E-09	0.00E+00	3.36E-08	9.58E-09	2.95E-10	0.00E+00	9.87E-09	3.63E-09	9.52E-11	0.00E+00	3.72E-09
2028	457610.2	3767755	3.316E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.93E-09	3.06E-10	0.00E+00	1.02E-08	3.76E-09	9.87E-11	0.00E+00	3.86E-09
2029	457600.3	3767755	3.434E-08	1.76E-09	0.00E+00	3.61E-08	3.43E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.00E-09
2030	457590.3	3767755	3.552E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.10E-08	4.03E-09	1.06E-10	0.00E+00	4.14E-09
2031	457580.4	3767755	3.67E-08	1.88E-09	0.00E+00	3.86E-08	3.67E-08	1.88E-09	0.00E+00	3.86E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.16E-09	1.09E-10	0.00E+00	4.27E-09
2032	457570.4	3767755	3.786E-08	1.94E-09	0.00E+00	3.98E-08	3.79E-08	1.94E-09	0.00E+00	3.98E-08	1.13E-08	3.49E-10	0.00E+00	1.17E-08	4.30E-09	1.13E-10	0.00E+00	4.41E-09
2033	457560.5	3767755	3.899E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.59E-10	0.00E+00	1.20E-08	4.42E-09	1.16E-10	0.00E+00	4.54E-09
2034	457550.5	3767755	4.01E-08	2.06E-09	0.00E+00	4.22E-08	4.01E-08	2.06E-09	0.00E+00	4.22E-08	1.20E-08	3.70E-10	0.00E+00	1.24E-08	4.55E-09	1.19E-10	0.00E+00	4.67E-09
2035	457540.6	3767755	4.118E-08	2.11E-09	0.00E+00	4.33E-08	4.12E-08	2.11E-09	0.00E+00	4.33E-08	1.23E-08	3.80E-10	0.00E+00	1.27E-08	4.67E-09	1.23E-10	0.00E+00	4.79E-09
2036	457530.6	3767755	4.223E-08	2.16E-09	0.00E+00	4.44E-08	4.22E-08	2.16E-09	0.00E+00	4.44E-08	1.26E-08	3.89E-10	0.00E+00	1.30E-08	4.79E-09	1.26E-10	0.00E+00	4.92E-09
2037	457520.7	3767755	4.324E-08	2.22E-09	0.00E+00	4.55E-08	4.32E-08	2.22E-09	0.00E+00	4.55E-08	1.30E-08	3.99E-10	0.00E+00	1.34E-08	4.91E-09	1.29E-10	0.00E+00	5.03E-09
2038	457510.7	3767755	4.422E-08	2.27E-09	0.00E+00	4.65E-08	4.42E-08	2.27E-09	0.00E+00	4.65E-08	1.32E-08	4.08E-10	0.00E+00	1.37E-08	5.02E-09	1.32E-10	0.00E+00	5.15E-09
2039	457500.8	3767755	4.515E-08	2.31E-09	0.00E+00	4.75E-08	4.52E-08	2.31E-09	0.00E+00	4.75E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.12E-09	1.34E-10	0.00E+00	5.26E-09
2040	457490.8	3767755	4.603E-08	2.36E-09	0.00E+00	4.84E-08	4.60E-08	2.36E-09	0.00E+00	4.84E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.36E-09
2041	457480.9	3767755	4.686E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.39E-10	0.00E+00	5.46E-09
2042	457470.9	3767755	4.762E-08	2.44E-09	0.00E+00	5.01E-08	4.76E-08	2.44E-09	0.00E+00	5.01E-08	1.43E-08	4.39E-10	0.00E+00	1.47E-08	5.40E-09	1.42E-10	0.00E+00	5.54E-09
2043	457461	3767755	4.83E-08	2.48E-09	0.00E+00	5.08E-08	4.83E-08	2.48E-09	0.00E+00	5.08E-08	1.45E-08	4.45E-10	0.00E+00	1.49E-08	5.48E-09	1.44E-10	0.00E+00	5.62E-09
2044	457451	3767755	4.892E-08	2.51E-09	0.00E+00	5.14E-08	4.89E-08	2.51E-09	0.00E+00	5.14E-08	1.47E-08	4.51E-10	0.00E+00	1.51E-08	5.55E-09	1.46E-10	0.00E+00	5.70E-09
2045	457441.1	3767755	4.949E-08	2.54E-09	0.00E+00	5.20E-08	4.95E-08	2.54E-09	0.00E+00	5.20E-08	1.48E-08	4.56E-10	0.00E+00	1.53E-08	5.61E-09	1.47E-10	0.00E+00	5.76E-09
2046	457431.1	3767755	4.998E-08	2.56E-09	0.00E+00	5.25E-08	5.00E-08	2.56E-09	0.00E+00	5.25E-08	1.50E-08	4.61E-10	0.00E+00	1.54E-08	5.67E-09	1.49E-10	0.00E+00	5.82E-09
2047	457421.2	3767755	5.041E-08	2.58E-09	0.00E+00	5.30E-08	5.04E-08	2.58E-09	0.00E+00	5.30E-08	1.51E-08	4.65E-10	0.00E+00	1.56E-08	5.72E-09	1.50E-10	0.00E+00	5.87E-09
2048	457411.2	3767755	5.077E-08	2.60E-09	0.00E+00	5.34E-08	5.08E-08	2.60E-09	0.00E+00	5.34E-08	1.52E-08	4.68E-10	0.00E+00	1.57E-08	5.76E-09	1.51E-10	0.00E+00	5.91E-09
2049	457401.3	3767755	5.105E-08	2.62E-09	0.00E+00	5.37E-08	5.11E-08	2.62E-09	0.00E+00	5.37E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.79E-09	1.52E-10	0.00E+00	5.94E-09
2050	457391.3	3767755	5.126E-08	2.63E-09	0.00E+00	5.39E-08	5.13E-08	2.63E-09	0.00E+00	5.39E-08	1.54E-08	4.73E-10	0.00E+00	1.58E-08	5.82E-09	1.53E-10	0.00E+00	5.97E-09
2051	457381.4	3767755	5.139E-08	2.63E-09	0.00E+00	5.40E-08	5.14E-08	2.63E-09	0.00E+00	5.40E-08	1.54E-08	4.74E-10	0.00E+00	1.59E-08	5.83E-09	1.53E-10	0.00E+00	5.98E-09
2052	457371.5	3767755	5.144E-08	2.64E-09	0.00E+00	5.41E-08	5.14E-08	2.64E-09	0.00E+00	5.41E-08	1.54E-08	4.74E-10	0.00E+00	1.59E-08	5.84E-09	1.53E-10	0.00E+00	5.99E-09
2053	457361.5	3767755	5.141E-08	2.64E-09	0.00E+00	5.40E-08	5.14E-08	2.64E-09	0.00E+00	5.40E-08	1.54E-08	4.74E-10	0.00E+00	1.59E-08	5.83E-09	1.53E-10	0.00E+00	5.99E-09
2054	457351.6	3767755	5.13E-08	2.63E-09	0.00E+00	5.39E-08	5.13E-08	2.63E-09	0.00E+00	5.39E-08	1.54E-08	4.73E-10	0.00E+00	1.58E-08	5.82E-09	1.53E-10	0.00E+00	5.97E-09
2055	457341.6	3767755	5.111E-08	2.62E-09	0.00E+00	5.37E-08	5.11E-08	2.62E-09	0.00E+00	5.37E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.80E-09	1.52E-10	0.00E+00	5.95E-09
2056	457331.7	3767755	5.084E-08	2.61E-09	0.00E+00	5.34E-08	5.08E-08	2.61E-09	0.00E+00	5.34E-08	1.52E-08	4.69E-10	0.00E+00	1.57E-08	5.77E-09	1.51E-10	0.00E+00	5.92E-09
2057	457727.3	3767741	1.994E-08	1.02E-09	0.00E+00	2.10E-08	1.99E-08	1.02E-09	0.00E+00	2.10E-08	5.97E-09	1.84E-10	0.00E+00	6.15E-09	2.26E-09	5.93E-11	0.00E+00	2.32E-09
2058	457736.5	3767745	1.942E-08	9.96E-10	0.00E+00	2.04E-08	1.94E-08	9.96E-10	0.00E+00	2.04E-08	5.82E-09	1.79E-10	0.00E+00	5.99E-09	2.20E-09	5.78E-11	0.00E+00	2.26E-09
2059	457745.6	3767748	1.891E-08	9.70E-10	0.00E+00	1.99E-08	1.89E-08	9.70E-10	0.00E+00	1.99E-08	5.66E-09	1.74E-10	0.00E+00	5.84E-09	2.15E-09	5.63E-11	0.00E+00	2.20E-09
2060	457754.8	3767752	1.842E-08	9.44E-10	0.00E+00	1.94E-08	1.84E-08	9.44E-10	0.00E+00	1.94E-08	5.52E-09	1.70E-10	0.00E+00	5.69E-09	2.09E-09	5.48E-11	0.00E+00	2.14E-09
2061	457764	3767756	1.794E-08	9.20E-10	0.00E+00	1.89E-08	1.79E-08	9.20E-10	0.00E+00	1.89E-08	5.37E-09	1.65E-10	0.00E+00	5.54E-09	2.04E-09	5.34E-11	0.00E+00	2.09E-09
2062	457773.2	3767760	1.747E-08	8.96E-10	0.00E+00	1.84E-08	1.75E-08	8.96E-10	0.00E+00	1.84E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.20E-11	0.00E+00	2.03E-09
2063	457782.4	3767763	1.702E-08	8.73E-10	0.00E+00	1.79E-08	1.70E-08	8.73E-10	0.00E+00	1.79E-08	5.10E-09	1.57E-10	0.00E+00	5.26E-09	1.93E-09	5.07E-11	0.00E+00	1.98E-09
2064	457791.6	3767767	1.659E-08	8.50E-10	0.00E+00	1.74E-08	1.66E-08	8.50E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.94E-11	0.00E+00	1.93E-09
2065	457800.7	3767771	1.617E-08	8.29E-10	0.00E+00	1.70E-08	1.62E-08	8.29E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
2066	457809.9	3767775	1.577E-08	8.08E-10	0.00E+00	1.66E-08	1.58E-08	8.08E-10	0.00E+00	1.66E-08	4.72E-09	1.45E-10	0.00E+00	4.87E-09	1.79E-09	4.69E-11	0.00E+00	1.84E-09
2067	457819.1	3767778	1.539E-08	7.89E-10	0.00E+00	1.62E-08	1.54E-08	7.89E-10	0.00E+00	1.62E-08	4.61E-09	1.42E-10	0.00E+00	4.75E-09	1.75E-09	4.58E-11	0.00E+00	1.79E-09
2068	457828.3	3767782	1.502E-08	7.70E-10	0.00E+00	1.58E-08	1.50E-08	7.70E-10	0.00E+00	1.58E-08	4.50E-09	1.38E-10	0.00E+00	4.64E-09	1.70E-09	4.47E-11	0.00E+00	1.75E-09
2069	457837.5	3767786	1.468E-08	7.53E-10	0.00E+00	1.54E-08	1.47E-08	7.53E-10	0.00E+00	1.54E-08	4.40E-09	1.35E-10	0.00E+00	4.53E-09	1.67E-09	4.37E-11	0.00E+00	1.71E-09
2070	457846.6	3767790	1.436E-08	7.36E-10	0.00E+00	1.51E-08	1.44E-08	7.36E-10	0.00E+00	1.51E-08	4.30E-09	1.32E-10	0.00E+00	4.43E-09	1.63E-09	4.27E-11	0.00E+00	1.67E-09
2071	457855.8	3767794	1.405E-08	7.20E-10	0.00E+00	1.48E-08	1.40E-08	7.20E-10	0.00E+00	1.48E-08	4.21E-09	1.29E-10	0.00E+00	4.34E-09	1.59E-09	4.18E-11	0.00E+00	1.64E-09
2072	457865	3767797	1.376E-08	7.05E-10	0.00E+00	1.45E-08	1.38E-08	7.05E-10	0.00E+00	1.45E-08	4.12E-09	1.27E-10	0.00E+00	4.25E-09	1.56E-09	4.09E-11	0.00E+00	1.60E-09
2073	457874.2	3767801	1.349E-08	6.92E-10	0.00E+00	1.42E-08	1.35E-08	6.92E-10	0.00E+00	1.42E-08	4.04E-09	1.24E-10	0.00E+00	4.16E-09	1.53E-09	4.01E-11	0.00E+00	1.57E-09
2074	457883.4	3767805	1.324E-08	6.79E-10	0.00E+00	1.39E-08	1.32E-08	6.79E-10	0.00E+00	1.39E-08	3.97E-09	1.22E-10	0.00E+00	4.09E-09	1.50E-09	3.94E-11	0.00E+00	1.54E-09
2075	457892.6	3767809	1.301E-08	6.67E-10	0.00E+00	1.37E-08	1.30E-08	6.67E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.87E-11	0.00E+00	1.51E-09
2076	457901.7	3767812	1.279E-08	6.56E-10	0.00E+00	1.34E-08	1.28E-08	6.56E-10	0.00E+00	1.34E-08	3.83E-09	1.18E-10	0.00E+00	3.95E-09	1.45E-09	3.81E-11	0.00E+00	1.49E-09
2077	457914.8	3767825	1.278E-08	6.55E-10	0.00E+00	1.34E-08	1.28E-08	6.55E-10	0.00E+00	1.34E-08	3.83E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
2078	457945.8	3767898	1.521E-08	7.80E-10	0.00E+00	1.60E-08	1.52E-08	7.80E-10	0.00E+00	1.60E-08	4.56E-09	1.40E-10	0.00E+00	4.70E-09	1.73E-09	4.53E-11	0.00E+00	1.77E-09
2079	457949.7	3767907	1.566E-08	8.03E-10	0.00E+00	1.65E-08	1.57E-08	8.03E-10	0.00E+00	1.65E-08	4.69E-09	1.44E-10	0.00E+00	4.83E-09	1.78E-09	4.66E-11	0.00E+00	1.82E-09
2080	457953.6	3767917	1.615E-08	8.28E-10	0.00E+00	1.70E-08	1.61E-08	8.28E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
2081	457957.5	3767926	1.668E-08	8.55E-10	0.00E+00	1.75E-08	1.67E-08	8.55E-10	0.00E+00	1.75E-08	4.99E-09	1.54E-10	0.00E+00	5.15E-09	1.89E-09	4.96E-11	0.00E+00	1.94E-09
2082	457961.4	3767935	1.725E-08	8.85E-10	0.00E+00	1.81E-08	1.73E-08	8.85E-10	0.00E+00	1.81E-08	5.17E-09	1.59E-10	0.00E+00	5.33E-09	1.96E-09	5.13E-11	0.00E+00	2.01E-09
2083	457965.2	3767944	1.788E-08	9.17E-10	0.00E+00	1.88E-08	1.79E-08	9.17E-10	0.00E+00	1.88E-08	5.36E-09	1.65E-10	0.00E+00	5.52E-09	2.03E-09	5.32E-11	0.00E+00	2.08E-09
2084	457969.1	3767953	1.855E-08	9.51E-10	0.00E+00	1.95E-08	1.86E-08	9.51E-10	0.00E+00	1.95E-08	5.56E-09	1.71E-10	0.00E+00	5.73E-09	2.10E-09	5.52E-11	0.00E+00	2.16E-09
2085	457973	3767962	1.927E-08	9.88E-10	0.00E+00	2.03E-08	1.93E-08	9.88E-10	0.00E+00	2.03E-08	5.77E-09	1.78E-10	0.00E+00	5.95E-09	2.19E-09	5.73E-11	0.00E+00	2.24E-09
2086	457976.9	3767971	2.003E-08	1.03E-09	0.00E+00	2.11E-08	2.00E-08	1.03E-09	0.00E+00	2.11E-08	6.00E-09	1.85E-10	0.00E+00	6.18E-09	2.27E-09	5.96E-11	0.00E+00	2.33E-09
2087	457980.8	3767980	2.084E-08	1.07E-09	0.00E+00	2.19E-08	2.08E-08	1.07E-09	0.00E+00	2.19E-08	6.24E-09	1.92E-10	0.00E+00	6.43E-09	2.36E-09	6.20E-11	0.00E+00	2.43E-09
2088	457984.7	3767990	2.169E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.49E-09	2.00E-10	0.00E+00	6.69E-09	2.46E-09	6.45E-11	0.00E+00	2.52E-09
2089	457988.5	3767999	2.256E-08	1.16E-09	0.00E+00	2.37E-08	2.26E-08	1.16E-09	0.00E+00	2.37E-08	6.76E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.71E-11	0.00E+00	2.63E-09
2090	457992.4	3768008	2.346E-08	1.20E-09	0.00E+00	2.47E-08	2.35E-08	1.20E-09	0.00E+00	2.47E-08	7.03E-09	2.16E-10	0.00E+00	7.24E-09	2.66E-09	6.98E-11	0.00E+00	2.73E-09
2091	457996.3	3768017	2.44E-08	1.25E-09	0.00E+00	2.57E-08	2.44E-08	1.25E-09	0.00E+00	2.57E-08	7.31E-09	2.25E-10	0.00E+00	7.53E-09	2.77E-09	7.26E-11	0.00E+00	2.84E-09
2092	457689.8	3767730	2.239E-08	1.15E-09	0.00E+00	2.35E-08	2.24E-08	1.15E-09	0.00E+00	2.35E-08	6.71E-09	2.06E-10	0.00E+00	6.91E-09	2.54E-09	6.66E-11	0.00E+00	2.61E-09
2093	457679.8	3767730	2.328E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.15E-10	0.00E+00	7.19E-09	2.64E-09	6.93E-11	0.00E+00	2.71E-09
2094	457669.9	3767730	2.42E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.25E-09	2.23E-10	0.00E+00	7.47E-09	2.75E-09	7.20E-11	0.00E+00	2.82E-09
2095	457659.9	3767730	2.515E-08	1.29E-09	0.00E+00	2.64E-08	2.51E-08	1.29E-09	0.00E+00	2.64E-08	7.53E-09	2.32E-10	0.00E+00	7.76E-09	2.85E-09	7.48E-11	0.00E+00	2.93E-09
2096	457650	3767730	2.611E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.82E-09	2.41E-10	0.00E+00	8.06E-09	2.96E-09	7.77E-11	0.00E+00	3.04E-09
2097	457640	3767730	2.71E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.12E-09	2.50E-10	0.00E+00	8.37E-09	3.07E-09	8.06E-11	0.00E+00	3.15E-09
2098	457630.1	3767730	2.81E-08	1.44E-09	0.00E+00	2.95E-08	2.81E-08	1.44E-09	0.00E+00	2.95E-08	8.42E-09	2.59E-10	0.00E+00	8.67E-09	3.19E-09	8.36E-11	0.00E+00	3.27E-09
2099	457620.1	3767730	2.912E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.72E-09	2.68E-10	0.00E+00	8.99E-09	3.30E-09	8.66E-11	0.00E+00	3.39E-09
2100	457610.2	3767730	3.015E-08	1.55E-09	0.00E+00	3.17E-08	3.01E-08	1.55E-09	0.00E+00	3.17E-08	9.03E-09	2.78E-10	0.00E+00	9.31E-09	3.42E-09	8.97E-11	0.00E+00	3.51E-09
2101	457600.2	3767730	3.118E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.87E-10	0.00E+00	9.63E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
2102	457590.3	3767730	3.221E-08	1.65E-09	0.00E+00	3.39E-08	3.22E-08	1.65E-09	0.00E+00	3.39E-08	9.65E-09	2.97E-10	0.00E+00	9.94E-09	3.65E-09	9.59E-11	0.00E+00	3.75E-09
2103	457580.3	3767730	3.324E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.96E-09	3.06E-10	0.00E+00	1.03E-08	3.77E-09	9.89E-11	0.00E+00	3.87E-09
2104	457570.4	3767730	3.426E-08	1.76E-09	0.00E+00	3.60E-08	3.43E-08	1.76E-09	0.00E+00	3.60E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.89E-09	1.02E-10	0.00E+00	3.99E-09
2105	457560.4	3767730	3.526E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
2106	457550.5	3767730	3.623E-08	1.86E-09	0.00E+00	3.81E-08	3.62E-08	1.86E-09	0.00E+00	3.81E-08	1.09E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
2107	457540.5	3767730	3.718E-08	1.91E-09	0.00E+00	3.91E-08	3.72E-08	1.91E-09	0.00E+00	3.91E-08	1.11E-08	3.43E-10	0.00E+00	1.15E-08	4.22E-09	1.11E-10	0.00E+00	4.33E-09
2108	457530.6	3767730	3.812E-08	1.95E-09	0.00E+00	4.01E-08	3.81E-08	1.95E-09	0.00E+00	4.01E-08	1.14E-08	3.51E-10	0.00E+00	1.18E-08	4.32E-09	1.13E-10	0.00E+00	4.44E-09
2109	457520.6	3767730	3.903E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.43E-09	1.16E-10	0.00E+00	4.54E-09
2110	457510.7	3767730	3.991E-08	2.05E-09	0.00E+00	4.20E-08	3.99E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.68E-10	0.00E+00	1.23E-08	4.53E-09	1.19E-10	0.00E+00	4.65E-09
2111	457500.7	3767730	4.076E-08	2.09E-09	0.00E+00	4.28E-08	4.08E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.75E-09
2112	457490.8	3767730	4.156E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.24E-08	3.83E-10	0.00E+00	1.28E-08	4.72E-09	1.24E-10	0.00E+00	4.84E-09
2113	457480.8	3767730	4.232E-08	2.17E-09	0.00E+00	4.45E-08	4.23E-08	2.17E-09	0.00E+00	4.45E-08	1.27E-08	3.90E-10	0.00E+00	1.31E-08	4.80E-09	1.26E-10	0.00E+00	4.93E-09
2114	457470.9	3767730	4.3E-08	2.20E-09	0.00E+00	4.52E-08	4.30E-08	2.20E-09	0.00E+00	4.52E-08	1.29E-08	3.96E-10	0.00E+00	1.33E-08	4.88E-09	1.28E-10	0.00E+00	5.01E-09
2115	457461	3767730	4.363E-08	2.24E-09	0.00E+00	4.59E-08	4.36E-08	2.24E-09	0.00E+00	4.59E-08	1.31E-08	4.02E-10	0.00E+00	1.35E-08	4.95E-09	1.30E-10	0.00E+00	5.08E-09
2116	457451	3767730	4.421E-08	2.27E-09	0.00E+00	4.65E-08	4.42E-08	2.27E-09	0.00E+00	4.65E-08	1.32E-08	4.07E-10	0.00E+00	1.36E-08	5.02E-09	1.32E-10	0.00E+00	5.15E-09
2117	457441.1	3767730	4.475E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.08E-09	1.33E-10	0.00E+00	5.21E-09
2118	457431.1	3767730	4.524E-08	2.32E-09	0.00E+00	4.76E-08	4.52E-08	2.32E-09	0.00E+00	4.76E-08	1.35E-08	4.17E-10	0.00E+00	1.40E-08	5.13E-09	1.35E-10	0.00E+00	5.27E-09
2119	457421.2	3767730	4.567E-08	2.34E-09	0.00E+00	4.80E-08	4.57E-08	2.34E-09	0.00E+00	4.80E-08	1.37E-08	4.21E-10	0.00E+00	1.41E-08	5.18E-09	1.36E-10	0.00E+00	5.32E-09
2120	457411.2	3767730	4.603E-08	2.36E-09	0.00E+00	4.84E-08	4.60E-08	2.36E-09	0.00E+00	4.84E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.36E-09
2121	457401.3	3767730	4.633E-08	2.38E-09	0.00E+00	4.87E-08	4.63E-08	2.38E-09	0.00E+00	4.87E-08	1.39E-08	4.27E-10	0.00E+00	1.43E-08	5.26E-09	1.38E-10	0.00E+00	5.39E-09
2122	457391.3	3767730	4.657E-08	2.39E-09	0.00E+00	4.90E-08	4.66E-08	2.39E-09	0.00E+00	4.90E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.28E-09	1.39E-10	0.00E+00	5.42E-09
2123	457381.4	3767730	4.673E-08	2.40E-09	0.00E+00	4.91E-08	4.67E-08	2.40E-09	0.00E+00	4.91E-08	1.40E-08	4.31E-10	0.00E+00	1.44E-08	5.30E-09	1.39E-10	0.00E+00	5.44E-09
2124	457371.4	3767730	4.683E-08	2.40E-09	0.00E+00	4.92E-08	4.68E-08	2.40E-09	0.00E+00	4.92E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.31E-09	1.39E-10	0.00E+00	5.45E-09
2125	457361.5	3767730	4.687E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.39E-10	0.00E+00	5.46E-09

2126	457351.5	3767730	4.683E-08	2.40E-09	0.00E+00	4.92E-08	4.68E-08	2.40E-09	0.00E+00	4.92E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.31E-09	1.39E-10	0.00E+00	5.45E-09
2127	457341.6	3767730	4.673E-08	2.40E-09	0.00E+00	4.91E-08	4.67E-08	2.40E-09	0.00E+00	4.91E-08	1.40E-08	4.31E-10	0.00E+00	1.44E-08	5.30E-09	1.39E-10	0.00E+00	5.44E-09
2128	457331.6	3767730	4.655E-08	2.39E-09	0.00E+00	4.89E-08	4.66E-08	2.39E-09	0.00E+00	4.89E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.28E-09	1.39E-10	0.00E+00	5.42E-09
2129	457727.1	3767716	1.858E-08	9.52E-10	0.00E+00	1.95E-08	1.86E-08	9.52E-10	0.00E+00	1.95E-08	5.56E-09	1.71E-10	0.00E+00	5.74E-09	2.11E-09	5.53E-11	0.00E+00	2.16E-09
2130	457736.3	3767720	1.812E-08	9.29E-10	0.00E+00	1.90E-08	1.81E-08	9.29E-10	0.00E+00	1.90E-08	5.43E-09	1.67E-10	0.00E+00	5.59E-09	2.06E-09	5.39E-11	0.00E+00	2.11E-09
2131	457745.4	3767723	1.767E-08	9.06E-10	0.00E+00	1.86E-08	1.77E-08	9.06E-10	0.00E+00	1.86E-08	5.29E-09	1.63E-10	0.00E+00	5.45E-09	2.00E-09	5.26E-11	0.00E+00	2.06E-09
2132	457754.6	3767727	1.723E-08	8.83E-10	0.00E+00	1.81E-08	1.72E-08	8.83E-10	0.00E+00	1.81E-08	5.16E-09	1.59E-10	0.00E+00	5.32E-09	1.95E-09	5.13E-11	0.00E+00	2.01E-09
2133	457763.7	3767731	1.68E-08	8.61E-10	0.00E+00	1.77E-08	1.68E-08	8.61E-10	0.00E+00	1.77E-08	5.03E-09	1.55E-10	0.00E+00	5.19E-09	1.91E-09	5.00E-11	0.00E+00	1.96E-09
2134	457772.9	3767735	1.638E-08	8.40E-10	0.00E+00	1.72E-08	1.64E-08	8.40E-10	0.00E+00	1.72E-08	4.91E-09	1.51E-10	0.00E+00	5.06E-09	1.86E-09	4.87E-11	0.00E+00	1.91E-09
2135	457782.1	3767738	1.597E-08	8.19E-10	0.00E+00	1.68E-08	1.60E-08	8.19E-10	0.00E+00	1.68E-08	4.78E-09	1.47E-10	0.00E+00	4.93E-09	1.81E-09	4.75E-11	0.00E+00	1.86E-09
2136	457791.2	3767742	1.558E-08	7.99E-10	0.00E+00	1.64E-08	1.56E-08	7.99E-10	0.00E+00	1.64E-08	4.67E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.64E-11	0.00E+00	1.81E-09
2137	457800.4	3767746	1.52E-08	7.79E-10	0.00E+00	1.60E-08	1.52E-08	7.79E-10	0.00E+00	1.60E-08	4.55E-09	1.40E-10	0.00E+00	4.69E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
2138	457809.5	3767750	1.483E-08	7.60E-10	0.00E+00	1.56E-08	1.48E-08	7.60E-10	0.00E+00	1.56E-08	4.44E-09	1.37E-10	0.00E+00	4.58E-09	1.68E-09	4.41E-11	0.00E+00	1.73E-09
2139	457818.7	3767753	1.448E-08	7.42E-10	0.00E+00	1.52E-08	1.45E-08	7.42E-10	0.00E+00	1.52E-08	4.34E-09	1.33E-10	0.00E+00	4.47E-09	1.64E-09	4.31E-11	0.00E+00	1.69E-09
2140	457827.8	3767757	1.414E-08	7.25E-10	0.00E+00	1.49E-08	1.41E-08	7.25E-10	0.00E+00	1.49E-08	4.24E-09	1.30E-10	0.00E+00	4.37E-09	1.60E-09	4.21E-11	0.00E+00	1.65E-09
2141	457837	3767761	1.382E-08	7.09E-10	0.00E+00	1.45E-08	1.38E-08	7.09E-10	0.00E+00	1.45E-08	4.14E-09	1.27E-10	0.00E+00	4.27E-09	1.57E-09	4.11E-11	0.00E+00	1.61E-09
2142	457846.1	3767765	1.352E-08	6.93E-10	0.00E+00	1.42E-08	1.35E-08	6.93E-10	0.00E+00	1.42E-08	4.05E-09	1.25E-10	0.00E+00	4.17E-09	1.53E-09	4.02E-11	0.00E+00	1.57E-09
2143	457855.3	3767768	1.323E-08	6.78E-10	0.00E+00	1.39E-08	1.32E-08	6.78E-10	0.00E+00	1.39E-08	3.96E-09	1.22E-10	0.00E+00	4.08E-09	1.50E-09	3.94E-11	0.00E+00	1.54E-09
2144	457864.4	3767772	1.295E-08	6.64E-10	0.00E+00	1.36E-08	1.29E-08	6.64E-10	0.00E+00	1.36E-08	3.88E-09	1.19E-10	0.00E+00	4.00E-09	1.47E-09	3.85E-11	0.00E+00	1.51E-09
2145	457873.6	3767776	1.269E-08	6.50E-10	0.00E+00	1.33E-08	1.27E-08	6.50E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
2146	457882.7	3767780	1.244E-08	6.38E-10	0.00E+00	1.31E-08	1.24E-08	6.38E-10	0.00E+00	1.31E-08	3.73E-09	1.15E-10	0.00E+00	3.84E-09	1.41E-09	3.70E-11	0.00E+00	1.45E-09
2147	457891.9	3767783	1.221E-08	6.26E-10	0.00E+00	1.28E-08	1.22E-08	6.26E-10	0.00E+00	1.28E-08	3.66E-09	1.13E-10	0.00E+00	3.77E-09	1.39E-09	3.63E-11	0.00E+00	1.42E-09
2148	457901	3767787	1.2E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.59E-09	1.11E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
2149	457910.2	3767791	1.18E-08	6.05E-10	0.00E+00	1.24E-08	1.18E-08	6.05E-10	0.00E+00	1.24E-08	3.53E-09	1.09E-10	0.00E+00	3.64E-09	1.34E-09	3.51E-11	0.00E+00	1.37E-09
2150	457919.3	3767795	1.161E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.48E-09	1.07E-10	0.00E+00	3.59E-09	1.32E-09	3.46E-11	0.00E+00	1.35E-09
2151	457932.3	3767807	1.16E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.58E-09	1.32E-09	3.45E-11	0.00E+00	1.35E-09
2152	457936.2	3767816	1.177E-08	6.03E-10	0.00E+00	1.24E-08	1.18E-08	6.03E-10	0.00E+00	1.24E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.34E-09	3.50E-11	0.00E+00	1.37E-09
2153	457940.1	3767826	1.196E-08	6.13E-10	0.00E+00	1.26E-08	1.20E-08	6.13E-10	0.00E+00	1.26E-08	3.58E-09	1.10E-10	0.00E+00	3.69E-09	1.36E-09	3.56E-11	0.00E+00	1.39E-09
2154	457971	3767898	1.434E-08	7.35E-10	0.00E+00	1.51E-08	1.43E-08	7.35E-10	0.00E+00	1.51E-08	4.29E-09	1.32E-10	0.00E+00	4.43E-09	1.63E-09	4.27E-11	0.00E+00	1.67E-09
2155	457974.9	3767907	1.477E-08	7.57E-10	0.00E+00	1.55E-08	1.48E-08	7.57E-10	0.00E+00	1.55E-08	4.42E-09	1.36E-10	0.00E+00	4.56E-09	1.68E-09	4.39E-11	0.00E+00	1.72E-09
2156	457978.8	3767917	1.523E-08	7.81E-10	0.00E+00	1.60E-08	1.52E-08	7.81E-10	0.00E+00	1.60E-08	4.56E-09	1.40E-10	0.00E+00	4.70E-09	1.73E-09	4.53E-11	0.00E+00	1.77E-09
2157	457982.6	3767926	1.573E-08	8.07E-10	0.00E+00	1.65E-08	1.57E-08	8.07E-10	0.00E+00	1.65E-08	4.71E-09	1.45E-10	0.00E+00	4.86E-09	1.78E-09	4.68E-11	0.00E+00	1.83E-09
2158	457986.5	3767935	1.627E-08	8.34E-10	0.00E+00	1.71E-08	1.63E-08	8.34E-10	0.00E+00	1.71E-08	4.87E-09	1.50E-10	0.00E+00	5.02E-09	1.85E-09	4.84E-11	0.00E+00	1.89E-09
2159	457990.4	3767944	1.685E-08	8.64E-10	0.00E+00	1.77E-08	1.69E-08	8.64E-10	0.00E+00	1.77E-08	5.05E-09	1.55E-10	0.00E+00	5.20E-09	1.91E-09	5.02E-11	0.00E+00	1.96E-09
2160	457994.2	3767953	1.747E-08	8.96E-10	0.00E+00	1.84E-08	1.75E-08	8.96E-10	0.00E+00	1.84E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.20E-11	0.00E+00	2.03E-09
2161	457998.1	3767962	1.813E-08	9.29E-10	0.00E+00	1.91E-08	1.81E-08	9.29E-10	0.00E+00	1.91E-08	5.43E-09	1.67E-10	0.00E+00	5.60E-09	2.06E-09	5.39E-11	0.00E+00	2.11E-09
2162	458002	3767971	1.881E-08	9.65E-10	0.00E+00	1.98E-08	1.88E-08	9.65E-10	0.00E+00	1.98E-08	5.63E-09	1.73E-10	0.00E+00	5.81E-09	2.13E-09	5.60E-11	0.00E+00	2.19E-09
2163	458005.8	3767980	1.953E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.85E-09	1.80E-10	0.00E+00	6.03E-09	2.22E-09	5.81E-11	0.00E+00	2.27E-09
2164	458009.7	3767989	2.028E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.08E-09	1.87E-10	0.00E+00	6.26E-09	2.30E-09	6.04E-11	0.00E+00	2.36E-09
2165	458013.6	3767999	2.107E-08	1.08E-09	0.00E+00	2.21E-08	2.11E-08	1.08E-09	0.00E+00	2.21E-08	6.31E-09	1.94E-10	0.00E+00	6.50E-09	2.39E-09	6.27E-11	0.00E+00	2.45E-09
2166	458017.4	3768008	2.188E-08	1.12E-09	0.00E+00	2.30E-08	2.19E-08	1.12E-09	0.00E+00	2.30E-08	6.55E-09	2.02E-10	0.00E+00	6.75E-09	2.48E-09	6.51E-11	0.00E+00	2.55E-09
2167	458021.3	3768017	2.271E-08	1.16E-09	0.00E+00	2.39E-08	2.27E-08	1.16E-09	0.00E+00	2.39E-08	6.80E-09	2.09E-10	0.00E+00	7.01E-09	2.58E-09	6.76E-11	0.00E+00	2.64E-09
2168	457689.7	3767705	2.075E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.41E-09	2.35E-09	6.17E-11	0.00E+00	2.42E-09
2169	457679.8	3767705	2.153E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.45E-09	1.98E-10	0.00E+00	6.65E-09	2.44E-09	6.41E-11	0.00E+00	2.51E-09
2170	457669.8	3767705	2.234E-08	1.15E-09	0.00E+00	2.35E-08	2.23E-08	1.15E-09	0.00E+00	2.35E-08	6.69E-09	2.06E-10	0.00E+00	6.90E-09	2.53E-09	6.65E-11	0.00E+00	2.60E-09
2171	457659.9	3767705	2.316E-08	1.19E-09	0.00E+00	2.43E-08	2.32E-08	1.19E-09	0.00E+00	2.43E-08	6.94E-09	2.13E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
2172	457649.9	3767705	2.401E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.19E-09	2.21E-10	0.00E+00	7.41E-09	2.72E-09	7.15E-11	0.00E+00	2.80E-09
2173	457640	3767705	2.488E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.45E-09	2.29E-10	0.00E+00	7.68E-09	2.82E-09	7.40E-11	0.00E+00	2.90E-09
2174	457630	3767705	2.576E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.72E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.67E-11	0.00E+00	3.00E-09
2175	457620.1	3767705	2.666E-08	1.37E-09	0.00E+00	2.80E-08	2.67E-08	1.37E-09	0.00E+00	2.80E-08	7.98E-09	2.46E-10	0.00E+00	8.23E-09	3.02E-09	7.93E-11	0.00E+00	3.10E-09
2176	457610.1	3767705	2.756E-08	1.41E-09	0.00E+00	2.90E-08	2.76E-08	1.41E-09	0.00E+00	2.90E-08	8.25E-09	2.54E-10	0.00E+00	8.51E-09	3.13E-09	8.20E-11	0.00E+00	3.21E-09
2177	457600.2	3767705	2.847E-08	1.46E-09	0.00E+00	2.99E-08	2.85E-08	1.46E-09	0.00E+00	2.99E-08	8.53E-09	2.62E-10	0.00E+00	8.79E-09	3.23E-09	8.47E-11	0.00E+00	3.31E-09
2178	457590.2	3767705	2.937E-08	1.51E-09	0.00E+00	3.09E-08	2.94E-08	1.51E-09	0.00E+00	3.09E-08	8.80E-09	2.71E-10	0.00E+00	9.07E-09	3.33E-09	8.74E-11	0.00E+00	3.42E-09
2179	457580.3	3767705	3.028E-08	1.55E-09	0.00E+00	3.18E-08	3.03E-08	1.55E-09	0.00E+00	3.18E-08	9.07E-09	2.79E-10	0.00E+00	9.35E-09	3.43E-09	9.01E-11	0.00E+00	3.52E-09
2180	457570.4	3767705	3.117E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.87E-10	0.00E+00	9.62E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
2181	457560.4	3767705	3.206E-08	1.64E-09	0.00E+00	3.37E-08	3.21E-08	1.64E-09	0.00E+00	3.37E-08	9.60E-09	2.95E-10	0.00E+00	9.90E-09	3.64E-09	9.54E-11	0.00E+00	3.73E-09
2182	457550.5	3767705	3.292E-08	1.69E-09	0.00E+00	3.46E-08	3.29E-08	1.69E-09	0.00E+00	3.46E-08	9.86E-09	3.03E-10	0.00E+00	1.02E-08	3.74E-09	9.80E-11	0.00E+00	3.83E-09
2183	457540.5	3767705	3.378E-08	1.73E-09	0.00E+00	3.55E-08	3.38E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.01E-10	0.00E+00	3.93E-09
2184	457530.6	3767705	3.462E-08	1.77E-09	0.00E+00	3.64E-08	3.46E-08	1.77E-09	0.00E+00	3.64E-08	1.04E-08	3.19E-10	0.00E+00	1.07E-08	3.93E-09	1.03E-10	0.00E+00	4.03E-09
2185	457520.6	3767705	3.544E-08	1.82E-09	0.00E+00	3.73E-08	3.54E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.09E-08	4.02E-09	1.05E-10	0.00E+00	4.13E-09
2186	457510.7	3767705	3.623E-08	1.86E-09	0.00E+00	3.81E-08	3.62E-08	1.86E-09	0.00E+00	3.81E-08	1.09E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
2187	457500.7	3767705	3.699E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
2188	457490.8	3767705	3.772E-08	1.93E-09	0.00E+00	3.96E-08	3.77E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.48E-10	0.00E+00	1.16E-08	4.28E-09	1.12E-10	0.00E+00	4.39E-09
2189	457480.8	3767705	3.841E-08	1.97E-09	0.00E+00	4.04E-08	3.84E-08	1.97E-09	0.00E+00	4.04E-08	1.15E-08	3.54E-10	0.00E+00	1.19E-08	4.36E-09	1.14E-10	0.00E+00	4.47E-09
2190	457470.9	3767705	3.904E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.43E-09	1.16E-10	0.00E+00	4.55E-09
2191	457460.9	3767705	3.962E-08	2.03E-09	0.00E+00	4.17E-08	3.96E-08	2.03E-09	0.00E+00	4.17E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.50E-09	1.18E-10	0.00E+00	4.61E-09
2192	457451	3767705	4.016E-08	2.06E-09	0.00E+00	4.22E-08	4.02E-08	2.06E-09	0.00E+00	4.22E-08	1.20E-08	3.70E-10	0.00E+00	1.24E-08	4.56E-09	1.20E-10	0.00E+00	4.68E-09
2193	457441	3767705	4.067E-08	2.09E-09	0.00E+00	4.28E-08	4.07E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.75E-10	0.00E+00	1.26E-08	4.61E-09	1.21E-10	0.00E+00	4.74E-09
2194	457431.1	3767705	4.114E-08	2.11E-09	0.00E+00	4.32E-08	4.11E-08	2.11E-09	0.00E+00	4.32E-08	1.23E-08	3.79E-10	0.00E+00	1.27E-08	4.67E-09	1.22E-10	0.00E+00	4.79E-09
2195	457421.1	3767705	4.156E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.24E-08	3.83E-10	0.00E+00	1.28E-08	4.71E-09	1.24E-10	0.00E+00	4.84E-09
2196	457411.2	3767705	4.192E-08	2.15E-09	0.00E+00	4.41E-08	4.19E-08	2.15E-09	0.00E+00	4.41E-08	1.26E-08	3.86E-10	0.00E+00	1.29E-08	4.76E-09	1.25E-10	0.00E+00	4.88E-09
2197	457401.2	3767705	4.223E-08	2.16E-09	0.00E+00	4.44E-08	4.22E-08	2.16E-09	0.00E+00	4.44E-08	1.26E-08	3.89E-10	0.00E+00	1.30E-08	4.79E-09	1.26E-10	0.00E+00	4.92E-09
2198	457391.3	3767705	4.248E-08	2.18E-09	0.00E+00	4.47E-08	4.25E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.82E-09	1.26E-10	0.00E+00	4.95E-09
2199	457381.3	3767705	4.267E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
2200	457371.4	3767705	4.281E-08	2.19E-09	0.00E+00	4.50E-08	4.28E-08	2.19E-09	0.00E+00	4.50E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.86E-09	1.27E-10	0.00E+00	4.98E-09
2201	457361.4	3767705	4.288E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.87E-09	1.28E-10	0.00E+00	4.99E-09
2202	457351.5	3767705	4.289E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.87E-09	1.28E-10	0.00E+00	4.99E-09
2203	457341.5	3767705	4.285E-08	2.20E-09	0.00E+00	4.50E-08	4.28E-08	2.20E-09	0.00E+00	4.50E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.86E-09	1.28E-10	0.00E+00	4.99E-09
2204	457331.6	3767705	4.274E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.94E-10	0.00E+00	1.32E-08	4.85E-09	1.27E-10	0.00E+00	4.98E-09
2205	457727	3767691	1.737E-08	8.91E-10	0.00E+00	1.83E-08	1.74E-08	8.91E-10	0.00E+00	1.83E-08	5.20E-09	1.60E-10	0.00E+00	5.36E-09	1.97E-09	5.17E-11	0.00E+00	2.02E-09
2206	457736.2	3767695	1.696E-08	8.70E-10	0.00E+00	1.78E-08	1.70E-08	8.70E-10	0.00E+00	1.78E-08	5.08E-09	1.56E-10	0.00E+00	5.24E-09	1.92E-09	5.05E-11	0.00E+00	1.98E-09
2207	457745.3	3767698	1.656E-08	8.49E-10	0.00E+00	1.74E-08	1.66E-08	8.49E-10	0.00E+00	1.74E-08	4.96E-09	1.53E-10	0.00E+00	5.11E-09	1.88E-09	4.93E-11	0.00E+00	1.93E-09
2208	457754.4	3767702	1.616E-08	8.29E-10	0.00E+00	1.70E-08	1.62E-08	8.29E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
2209	457763.5	3767706	1.578E-08	8.09E-10	0.00E+00	1.66E-08	1.58E-08	8.09E-10	0.00E+00	1.66E-08	4.72E-09	1.45E-10	0.00E+00	4.87E-09	1.79E-09	4.69E-11	0.00E+00	1.84E-09
2210	457772.7	3767709	1.54E-08	7.89E-10	0.00E+00	1.62E-08	1.54E-08	7.89E-10	0.00E+00	1.62E-08	4.61E-09	1.42E-10	0.00E+00	4.75E-09	1.75E-09	4.58E-11	0.00E+00	1.79E-09
2211	457781.8	3767713	1.503E-08	7.70E-10	0.00E+00	1.58E-08	1.50E-08	7.70E-10	0.00E+00	1.58E-08	4.50E-09	1.39E-10	0.00E+00	4.64E-09	1.70E-09	4.47E-11	0.00E+00	1.75E-09
2212	457790.9	3767717	1.467E-08	7.52E-10	0.00E+00	1.54E-08	1.47E-08	7.52E-10	0.00E+00	1.54E-08	4.39E-09	1.35E-10	0.00E+00	4.53E-09	1.66E-09	4.37E-11	0.00E+00	1.71E-09
2213	457800	3767721	1.433E-08	7.34E-10	0.00E+00	1.51E-08	1.43E-08	7.34E-10	0.00E+00	1.51E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.63E-09	4.26E-11	0.00E+00	1.67E-09
2214	457809.2	3767724	1.399E-08	7.17E-10	0.00E+00	1.47E-08	1.40E-08	7.17E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.32E-09	1.59E-09	4.16E-11	0.00E+00	1.63E-09
2215	457818.3	3767728	1.367E-08	7.01E-10	0.00E+00	1.44E-08	1.37E-08	7.01E-10	0.00E+00	1.44E-08	4.09E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.07E-11	0.00E+00	1.59E-09
2216	457827.4	3767732	1.336E-08	6.85E-10	0.00E+00	1.40E-08	1.34E-08	6.85E-10	0.00E+00	1.40E-08	4.00E-09	1.23E-10	0.00E+00	4.12E-09	1.52E-09	3.97E-11	0.00E+00	1.56E-09
2217	457836.5	3767736	1.306E-08	6.69E-10	0.00E+00	1.37E-08	1.31E-08	6.69E-10	0.00E+00	1.37E-08	3.91E-09	1.20E-10	0.00E+00	4.03E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
2218	457845.7	3767739	1.277E-08	6.55E-10	0.00E+00	1.34E-08	1.28E-08	6.55E-10	0.00E+00	1.34E-08	3.83E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
2219	457854.8	3767743	1.25E-08	6.41E-10	0.00E+00	1.31E-08	1.25E-08	6.41E-10	0.00E+00	1.31E-08	3.74E-09	1.15E-10	0.00E+00	3.86E-09	1.42E-09	3.72E-11	0.00E+00	1.46E-09
2220	457863.9	3767747	1.224E-08	6.27E-10	0.00E+00	1.29E-08	1.22E-08	6.27E-10	0.00E+00	1.29E-08	3.67E-09	1.13E-10	0.00E+00	3.78E-09	1.39E-09	3.64E-11	0.00E+00	1.43E-09
2221	457873	3767751	1.199E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.59E-09	1.11E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
2222	457882.2	3767754	1.176E-08	6.03E-10	0.00E+00	1.24E-08	1.18E-08	6.03E-10	0.00E+00	1.24E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.33E-09	3.50E-11	0.00E+00	1.37E-09
2223	457891.3	3767758	1.153E-08	5.91E-10	0.00E+00	1.21E-08	1.15E-08	5.91E-10	0.00E+00	1.21E-08	3.45E-09	1.06E-10	0.00E+00	3.56E-09	1.31E-09	3.43E-11	0.00E+00	1.34E-09
2224	457900.4	3767762	1.132E-08	5.80E-10	0.00E+00	1.19E-08	1.13E-08	5.80E-10	0.00E+00	1.19E-08	3.39E-09	1.04E-10	0.00E+00	3.50E-09	1.28E-09	3.37E-11	0.00E+00	1.32E-09
2225	457909.5	3767766	1.113E-08	5.70E-10	0.00E+00	1.17E-08	1.11E-08	5.70E-10	0.00E+00	1.17E-08	3.33E-09	1.03E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.30E-09
2226	457918.7	3767769	1.094E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.27E-09
2227	457927.8	3767773	1.077E-08	5.52E-10	0.00E+00	1.13E-08	1.08E-08	5.52E-10	0.00E+00	1.13E-08	3.22E-09	9.92E-11	0.00E+00	3.32E-09	1.22E-09	3.20E-11	0.00E+00	1.25E-09
2228	457936.9	3767777	1.06E-08	5.44E-10	0.00E+00	1.11E-08	1.06E-08	5.44E-10	0.00E+00	1.11E-08	3.18E-09	9.77E-11	0.00E+00	3.27E-09	1.20E-09	3.16E-11	0.00E+00	1.23E-09
2229	457949.9	3767790	1.058E-08	5.43E-10	0.00E+00	1.11E-08	1.06E-08	5.43E-10	0.00E+00	1.11E-08	3.17E-09	9.75E-11	0.00E+00	3.27E-09	1.20E-09	3.15E-11	0.00E+00	1.23E-09
2230	457953.8	3767799	1.073E-08	5.50E-10	0.00E+00	1.13E-08	1.07E-08	5.50E-10	0.00E+00	1.13E-08	3.21E-09	9.89E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
2231	457957.6	3767808	1.088E-08	5.58E-10	0.00E+00	1.14E-08	1.09E-08	5.58E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.23E-09	3.24E-11	0.00E+00	1.27E-09
2232	457961.5	3767817	1.106E-08	5.67E-10	0.00E+00	1.16E-08	1.11E-08	5.67E-10	0.00E+00	1.16E-08	3.31E-09	1.02E-10	0.00E+00	3.41E-09	1.25E-09	3.29E-11	0.00E+00	1.29E-09
2233	457965.3	3767826	1.125E-08	5.77E-10	0.00E+00	1.18E-08	1.13E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
2234	457996.2	3767898	1.356E-08	6.95E-10	0.00E+00	1.43E-08	1.36E-08	6.95E-10	0.00E+00	1.43E-08	4.06E-09	1.25E-10	0.00E+00	4.19E-09	1.54E-09	4.04E-11	0.00E+00	1.58E-09
2235	458000	3767908	1.397E-08	7.16E-10	0.00E+00	1.47E-08	1.40E-08	7.16E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.31E-09	1.59E-09	4.16E-11	0.00E+00	1.63E-09
2236	458003.9	3767917	1.441E-08	7.39E-10	0.00E+00	1.52E-08	1.44E-08	7.39E-10	0.00E+00	1.52E-08	4.32E-09	1.33E-10	0.00E+00	4.45E-09	1.64E-09	4.29E-11	0.00E+00	1.68E-09
2237	458007.7	3767926	1.489E-08	7.63E-10	0.00E+00	1.57E-08	1.49E-08	7.63E-10	0.00E+00	1.57E-08	4.46E-09	1.37E-10	0.00E+00	4.60E-09	1.69E-09	4.43E-11	0.00E+00	1.73E-09

2238	458011.6	3767935	1.539E-08	7.89E-10	0.00E+00	1.62E-08	1.54E-08	7.89E-10	0.00E+00	1.62E-08	4.61E-09	1.42E-10	0.00E+00	4.75E-09	1.75E-09	4.58E-11	0.00E+00	1.79E-09
2239	458015.5	3767944	1.593E-08	8.17E-10	0.00E+00	1.67E-08	1.59E-08	8.17E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
2240	458019.3	3767953	1.65E-08	8.46E-10	0.00E+00	1.73E-08	1.65E-08	8.46E-10	0.00E+00	1.73E-08	4.94E-09	1.52E-10	0.00E+00	5.09E-09	1.87E-09	4.91E-11	0.00E+00	1.92E-09
2241	458023.2	3767962	1.709E-08	8.76E-10	0.00E+00	1.80E-08	1.71E-08	8.76E-10	0.00E+00	1.80E-08	5.12E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
2242	458027	3767971	1.771E-08	9.08E-10	0.00E+00	1.86E-08	1.77E-08	9.08E-10	0.00E+00	1.86E-08	5.30E-09	1.63E-10	0.00E+00	5.47E-09	2.01E-09	5.27E-11	0.00E+00	2.06E-09
2243	458030.9	3767980	1.835E-08	9.41E-10	0.00E+00	1.93E-08	1.84E-08	9.41E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.67E-09	2.08E-09	5.46E-11	0.00E+00	2.14E-09
2244	458034.7	3767989	1.903E-08	9.76E-10	0.00E+00	2.00E-08	1.90E-08	9.76E-10	0.00E+00	2.00E-08	5.70E-09	1.75E-10	0.00E+00	5.88E-09	2.16E-09	5.66E-11	0.00E+00	2.22E-09
2245	458038.6	3767998	1.974E-08	1.01E-09	0.00E+00	2.07E-08	1.97E-08	1.01E-09	0.00E+00	2.07E-08	5.91E-09	1.82E-10	0.00E+00	6.09E-09	2.24E-09	5.87E-11	0.00E+00	2.30E-09
2246	458042.5	3768007	2.046E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.13E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.09E-11	0.00E+00	2.38E-09
2247	458046.3	3768016	2.121E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.35E-09	1.95E-10	0.00E+00	6.55E-09	2.41E-09	6.31E-11	0.00E+00	2.47E-09
2248	457689.7	3767680	1.93E-08	9.89E-10	0.00E+00	2.03E-08	1.93E-08	9.89E-10	0.00E+00	2.03E-08	5.78E-09	1.78E-10	0.00E+00	5.96E-09	2.19E-09	5.74E-11	0.00E+00	2.25E-09
2249	457679.8	3767680	1.999E-08	1.02E-09	0.00E+00	2.10E-08	2.00E-08	1.02E-09	0.00E+00	2.10E-08	5.99E-09	1.84E-10	0.00E+00	6.17E-09	2.27E-09	5.95E-11	0.00E+00	2.33E-09
2250	457669.8	3767680	2.07E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.20E-09	1.91E-10	0.00E+00	6.39E-09	2.35E-09	6.16E-11	0.00E+00	2.41E-09
2251	457659.9	3767680	2.144E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
2252	457649.9	3767680	2.219E-08	1.14E-09	0.00E+00	2.33E-08	2.22E-08	1.14E-09	0.00E+00	2.33E-08	6.65E-09	2.05E-10	0.00E+00	6.85E-09	2.52E-09	6.60E-11	0.00E+00	2.58E-09
2253	457640	3767680	2.296E-08	1.18E-09	0.00E+00	2.41E-08	2.30E-08	1.18E-09	0.00E+00	2.41E-08	6.88E-09	2.12E-10	0.00E+00	7.09E-09	2.60E-09	6.83E-11	0.00E+00	2.67E-09
2254	457630	3767680	2.374E-08	1.22E-09	0.00E+00	2.50E-08	2.37E-08	1.22E-09	0.00E+00	2.50E-08	7.11E-09	2.19E-10	0.00E+00	7.33E-09	2.69E-09	7.06E-11	0.00E+00	2.76E-09
2255	457620.1	3767680	2.452E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.35E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.30E-11	0.00E+00	2.86E-09
2256	457610.1	3767680	2.532E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.58E-09	2.33E-10	0.00E+00	7.82E-09	2.87E-09	7.53E-11	0.00E+00	2.95E-09
2257	457600.2	3767680	2.612E-08	1.34E-09	0.00E+00	2.75E-08	2.61E-08	1.34E-09	0.00E+00	2.75E-08	7.82E-09	2.41E-10	0.00E+00	8.06E-09	2.96E-09	7.77E-11	0.00E+00	3.04E-09
2258	457590.2	3767680	2.691E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.06E-09	2.48E-10	0.00E+00	8.31E-09	3.05E-09	8.01E-11	0.00E+00	3.13E-09
2259	457580.3	3767680	2.771E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.30E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.25E-11	0.00E+00	3.23E-09
2260	457570.3	3767680	2.85E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.53E-09	2.63E-10	0.00E+00	8.80E-09	3.23E-09	8.48E-11	0.00E+00	3.32E-09
2261	457560.4	3767680	2.929E-08	1.50E-09	0.00E+00	3.08E-08	2.93E-08	1.50E-09	0.00E+00	3.08E-08	8.77E-09	2.70E-10	0.00E+00	9.04E-09	3.32E-09	8.72E-11	0.00E+00	3.41E-09
2262	457550.4	3767680	3.007E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.01E-09	2.77E-10	0.00E+00	9.28E-09	3.41E-09	8.95E-11	0.00E+00	3.50E-09
2263	457540.5	3767680	3.084E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.24E-09	2.84E-10	0.00E+00	9.52E-09	3.50E-09	9.18E-11	0.00E+00	3.59E-09
2264	457530.5	3767680	3.159E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.46E-09	2.91E-10	0.00E+00	9.75E-09	3.58E-09	9.40E-11	0.00E+00	3.68E-09
2265	457520.6	3767680	3.233E-08	1.66E-09	0.00E+00	3.40E-08	3.23E-08	1.66E-09	0.00E+00	3.40E-08	9.68E-09	2.98E-10	0.00E+00	9.98E-09	3.67E-09	9.62E-11	0.00E+00	3.76E-09
2266	457510.6	3767680	3.304E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.90E-09	3.05E-10	0.00E+00	1.02E-08	3.75E-09	9.83E-11	0.00E+00	3.85E-09
2267	457500.7	3767680	3.373E-08	1.73E-09	0.00E+00	3.55E-08	3.37E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.00E-10	0.00E+00	3.93E-09
2268	457490.7	3767680	3.438E-08	1.76E-09	0.00E+00	3.61E-08	3.44E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.00E-09
2269	457480.8	3767680	3.501E-08	1.79E-09	0.00E+00	3.68E-08	3.50E-08	1.79E-09	0.00E+00	3.68E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.08E-09
2270	457470.8	3767680	3.56E-08	1.82E-09	0.00E+00	3.74E-08	3.56E-08	1.82E-09	0.00E+00	3.74E-08	1.07E-08	3.28E-10	0.00E+00	1.10E-08	4.04E-09	1.06E-10	0.00E+00	4.14E-09
2271	457460.9	3767680	3.614E-08	1.85E-09	0.00E+00	3.80E-08	3.61E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.08E-10	0.00E+00	4.21E-09
2272	457450.9	3767680	3.665E-08	1.88E-09	0.00E+00	3.85E-08	3.66E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.38E-10	0.00E+00	1.13E-08	4.16E-09	1.09E-10	0.00E+00	4.27E-09
2273	457441	3767680	3.713E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
2274	457431	3767680	3.757E-08	1.93E-09	0.00E+00	3.95E-08	3.76E-08	1.93E-09	0.00E+00	3.95E-08	1.13E-08	3.46E-10	0.00E+00	1.16E-08	4.26E-09	1.12E-10	0.00E+00	4.37E-09
2275	457421.1	3767680	3.797E-08	1.95E-09	0.00E+00	3.99E-08	3.80E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
2276	457411.1	3767680	3.833E-08	1.96E-09	0.00E+00	4.03E-08	3.83E-08	1.96E-09	0.00E+00	4.03E-08	1.15E-08	3.53E-10	0.00E+00	1.18E-08	4.35E-09	1.14E-10	0.00E+00	4.46E-09
2277	457401.2	3767680	3.863E-08	1.98E-09	0.00E+00	4.06E-08	3.86E-08	1.98E-09	0.00E+00	4.06E-08	1.16E-08	3.56E-10	0.00E+00	1.19E-08	4.38E-09	1.15E-10	0.00E+00	4.50E-09
2278	457391.2	3767680	3.889E-08	1.99E-09	0.00E+00	4.09E-08	3.89E-08	1.99E-09	0.00E+00	4.09E-08	1.16E-08	3.59E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.53E-09
2279	457381.3	3767680	3.91E-08	2.00E-09	0.00E+00	4.11E-08	3.91E-08	2.00E-09	0.00E+00	4.11E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.44E-09	1.16E-10	0.00E+00	4.55E-09
2280	457371.3	3767680	3.926E-08	2.01E-09	0.00E+00	4.13E-08	3.93E-08	2.01E-09	0.00E+00	4.13E-08	1.18E-08	3.62E-10	0.00E+00	1.21E-08	4.45E-09	1.17E-10	0.00E+00	4.57E-09
2281	457361.4	3767680	3.938E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.58E-09
2282	457351.4	3767680	3.942E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
2283	457341.5	3767680	3.94E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
2284	457331.5	3767680	3.934E-08	2.02E-09	0.00E+00	4.14E-08	3.93E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.58E-09
2285	457726.9	3767666	1.629E-08	8.35E-10	0.00E+00	1.71E-08	1.63E-08	8.35E-10	0.00E+00	1.71E-08	4.88E-09	1.50E-10	0.00E+00	5.03E-09	1.85E-09	4.85E-11	0.00E+00	1.90E-09
2286	457736	3767670	1.593E-08	8.17E-10	0.00E+00	1.67E-08	1.59E-08	8.17E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
2287	457745.1	3767673	1.557E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.43E-10	0.00E+00	4.81E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
2288	457754.2	3767677	1.521E-08	7.80E-10	0.00E+00	1.60E-08	1.52E-08	7.80E-10	0.00E+00	1.60E-08	4.56E-09	1.40E-10	0.00E+00	4.70E-09	1.73E-09	4.53E-11	0.00E+00	1.77E-09
2289	457763.3	3767681	1.486E-08	7.62E-10	0.00E+00	1.56E-08	1.49E-08	7.62E-10	0.00E+00	1.56E-08	4.45E-09	1.37E-10	0.00E+00	4.59E-09	1.69E-09	4.42E-11	0.00E+00	1.73E-09
2290	457772.4	3767684	1.452E-08	7.44E-10	0.00E+00	1.53E-08	1.45E-08	7.44E-10	0.00E+00	1.53E-08	4.35E-09	1.34E-10	0.00E+00	4.48E-09	1.65E-09	4.32E-11	0.00E+00	1.69E-09
2291	457781.5	3767688	1.418E-08	7.27E-10	0.00E+00	1.49E-08	1.42E-08	7.27E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.38E-09	1.61E-09	4.22E-11	0.00E+00	1.65E-09
2292	457790.6	3767692	1.386E-08	7.11E-10	0.00E+00	1.46E-08	1.39E-08	7.11E-10	0.00E+00	1.46E-08	4.15E-09	1.28E-10	0.00E+00	4.28E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
2293	457799.7	3767696	1.355E-08	6.94E-10	0.00E+00	1.42E-08	1.35E-08	6.94E-10	0.00E+00	1.42E-08	4.06E-09	1.25E-10	0.00E+00	4.18E-09	1.54E-09	4.03E-11	0.00E+00	1.58E-09
2294	457808.8	3767699	1.324E-08	6.79E-10	0.00E+00	1.39E-08	1.32E-08	6.79E-10	0.00E+00	1.39E-08	3.97E-09	1.22E-10	0.00E+00	4.09E-09	1.50E-09	3.94E-11	0.00E+00	1.54E-09
2295	457818	3767703	1.294E-08	6.63E-10	0.00E+00	1.36E-08	1.29E-08	6.63E-10	0.00E+00	1.36E-08	3.88E-09	1.19E-10	0.00E+00	4.00E-09	1.47E-09	3.85E-11	0.00E+00	1.51E-09
2296	457827.1	3767707	1.265E-08	6.49E-10	0.00E+00	1.33E-08	1.27E-08	6.49E-10	0.00E+00	1.33E-08	3.79E-09	1.17E-10	0.00E+00	3.91E-09	1.44E-09	3.77E-11	0.00E+00	1.47E-09
2297	457836.2	3767711	1.238E-08	6.35E-10	0.00E+00	1.30E-08	1.24E-08	6.35E-10	0.00E+00	1.30E-08	3.71E-09	1.14E-10	0.00E+00	3.82E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
2298	457845.3	3767714	1.211E-08	6.21E-10	0.00E+00	1.27E-08	1.21E-08	6.21E-10	0.00E+00	1.27E-08	3.63E-09	1.12E-10	0.00E+00	3.74E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
2299	457854.4	3767718	1.185E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.34E-09	3.53E-11	0.00E+00	1.38E-09
2300	457863.5	3767722	1.161E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.48E-09	1.07E-10	0.00E+00	3.58E-09	1.32E-09	3.45E-11	0.00E+00	1.35E-09
2301	457872.6	3767725	1.138E-08	5.83E-10	0.00E+00	1.20E-08	1.14E-08	5.83E-10	0.00E+00	1.20E-08	3.41E-09	1.05E-10	0.00E+00	3.51E-09	1.29E-09	3.39E-11	0.00E+00	1.32E-09
2302	457881.7	3767729	1.115E-08	5.72E-10	0.00E+00	1.17E-08	1.12E-08	5.72E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.44E-09	1.27E-09	3.32E-11	0.00E+00	1.30E-09
2303	457890.8	3767733	1.094E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.27E-09
2304	457899.9	3767737	1.074E-08	5.50E-10	0.00E+00	1.13E-08	1.07E-08	5.50E-10	0.00E+00	1.13E-08	3.22E-09	9.90E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
2305	457909	3767740	1.054E-08	5.40E-10	0.00E+00	1.11E-08	1.05E-08	5.40E-10	0.00E+00	1.11E-08	3.16E-09	9.72E-11	0.00E+00	3.25E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
2306	457918.1	3767744	1.036E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.55E-11	0.00E+00	3.20E-09	1.18E-09	3.08E-11	0.00E+00	1.21E-09
2307	457927.2	3767748	1.019E-08	5.22E-10	0.00E+00	1.07E-08	1.02E-08	5.22E-10	0.00E+00	1.07E-08	3.05E-09	9.39E-11	0.00E+00	3.15E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
2308	457936.3	3767752	1.003E-08	5.14E-10	0.00E+00	1.05E-08	1.00E-08	5.14E-10	0.00E+00	1.05E-08	3.00E-09	9.24E-11	0.00E+00	3.10E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
2309	457945.4	3767755	9.873E-09	5.06E-10	0.00E+00	1.04E-08	9.87E-09	5.06E-10	0.00E+00	1.04E-08	2.96E-09	9.10E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
2310	457954.5	3767759	9.73E-09	4.99E-10	0.00E+00	1.02E-08	9.73E-09	4.99E-10	0.00E+00	1.02E-08	2.91E-09	8.97E-11	0.00E+00	3.00E-09	1.10E-09	2.90E-11	0.00E+00	1.13E-09
2311	457967.4	3767772	9.708E-09	4.98E-10	0.00E+00	1.02E-08	9.71E-09	4.98E-10	0.00E+00	1.02E-08	2.91E-09	8.95E-11	0.00E+00	3.00E-09	1.10E-09	2.89E-11	0.00E+00	1.13E-09
2312	457971.3	3767781	9.829E-09	5.04E-10	0.00E+00	1.03E-08	9.83E-09	5.04E-10	0.00E+00	1.03E-08	2.94E-09	9.06E-11	0.00E+00	3.03E-09	1.12E-09	2.92E-11	0.00E+00	1.14E-09
2313	457975.1	3767790	9.962E-09	5.11E-10	0.00E+00	1.05E-08	9.96E-09	5.11E-10	0.00E+00	1.05E-08	2.98E-09	9.18E-11	0.00E+00	3.08E-09	1.13E-09	2.96E-11	0.00E+00	1.16E-09
2314	457979	3767799	1.011E-08	5.18E-10	0.00E+00	1.06E-08	1.01E-08	5.18E-10	0.00E+00	1.06E-08	3.03E-09	9.32E-11	0.00E+00	3.12E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
2315	457982.8	3767808	1.027E-08	5.26E-10	0.00E+00	1.08E-08	1.03E-08	5.26E-10	0.00E+00	1.08E-08	3.08E-09	9.47E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
2316	457986.7	3767817	1.044E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.13E-09	9.63E-11	0.00E+00	3.22E-09	1.18E-09	3.11E-11	0.00E+00	1.22E-09
2317	457990.5	3767826	1.064E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.19E-09	9.80E-11	0.00E+00	3.28E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
2318	458021.3	3767898	1.288E-08	6.60E-10	0.00E+00	1.35E-08	1.29E-08	6.60E-10	0.00E+00	1.35E-08	3.86E-09	1.19E-10	0.00E+00	3.98E-09	1.46E-09	3.83E-11	0.00E+00	1.50E-09
2319	458025.2	3767908	1.327E-08	6.80E-10	0.00E+00	1.39E-08	1.33E-08	6.80E-10	0.00E+00	1.39E-08	3.97E-09	1.22E-10	0.00E+00	4.10E-09	1.51E-09	3.95E-11	0.00E+00	1.54E-09
2320	458029	3767917	1.368E-08	7.01E-10	0.00E+00	1.44E-08	1.37E-08	7.01E-10	0.00E+00	1.44E-08	4.10E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.07E-11	0.00E+00	1.59E-09
2321	458032.9	3767926	1.412E-08	7.24E-10	0.00E+00	1.48E-08	1.41E-08	7.24E-10	0.00E+00	1.48E-08	4.23E-09	1.30E-10	0.00E+00	4.36E-09	1.60E-09	4.20E-11	0.00E+00	1.64E-09
2322	458036.7	3767935	1.459E-08	7.48E-10	0.00E+00	1.53E-08	1.46E-08	7.48E-10	0.00E+00	1.53E-08	4.37E-09	1.34E-10	0.00E+00	4.50E-09	1.66E-09	4.34E-11	0.00E+00	1.70E-09
2323	458040.5	3767944	1.508E-08	7.73E-10	0.00E+00	1.59E-08	1.51E-08	7.73E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
2324	458044.4	3767953	1.559E-08	7.99E-10	0.00E+00	1.64E-08	1.56E-08	7.99E-10	0.00E+00	1.64E-08	4.67E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.64E-11	0.00E+00	1.82E-09
2325	458048.2	3767962	1.613E-08	8.27E-10	0.00E+00	1.70E-08	1.61E-08	8.27E-10	0.00E+00	1.70E-08	4.83E-09	1.49E-10	0.00E+00	4.98E-09	1.83E-09	4.80E-11	0.00E+00	1.88E-09
2326	458052.1	3767971	1.67E-08	8.56E-10	0.00E+00	1.76E-08	1.67E-08	8.56E-10	0.00E+00	1.76E-08	5.00E-09	1.54E-10	0.00E+00	5.16E-09	1.89E-09	4.97E-11	0.00E+00	1.94E-09
2327	458055.9	3767980	1.73E-08	8.87E-10	0.00E+00	1.82E-08	1.73E-08	8.87E-10	0.00E+00	1.82E-08	5.18E-09	1.59E-10	0.00E+00	5.34E-09	1.96E-09	5.15E-11	0.00E+00	2.01E-09
2328	458059.8	3767989	1.791E-08	9.18E-10	0.00E+00	1.88E-08	1.79E-08	9.18E-10	0.00E+00	1.88E-08	5.36E-09	1.65E-10	0.00E+00	5.53E-09	2.03E-09	5.33E-11	0.00E+00	2.09E-09
2329	458063.6	3767998	1.854E-08	9.51E-10	0.00E+00	1.95E-08	1.85E-08	9.51E-10	0.00E+00	1.95E-08	5.55E-09	1.71E-10	0.00E+00	5.73E-09	2.10E-09	5.52E-11	0.00E+00	2.16E-09
2330	458067.5	3768007	1.919E-08	9.84E-10	0.00E+00	2.02E-08	1.92E-08	9.84E-10	0.00E+00	2.02E-08	5.75E-09	1.77E-10	0.00E+00	5.93E-09	2.18E-09	5.71E-11	0.00E+00	2.23E-09
2331	458071.3	3768016	1.986E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.95E-09	1.83E-10	0.00E+00	6.13E-09	2.25E-09	5.91E-11	0.00E+00	2.31E-09
2332	457630	3767655	2.196E-08	1.13E-09	0.00E+00	2.31E-08	2.20E-08	1.13E-09	0.00E+00	2.31E-08	6.58E-09	2.02E-10	0.00E+00	6.78E-09	2.49E-09	6.53E-11	0.00E+00	2.56E-09
2333	457620	3767655	2.265E-08	1.16E-09	0.00E+00	2.38E-08	2.27E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.74E-11	0.00E+00	2.64E-09
2334	457610.1	3767655	2.335E-08	1.20E-09	0.00E+00	2.45E-08	2.34E-08	1.20E-09	0.00E+00	2.45E-08	6.99E-09	2.15E-10	0.00E+00	7.21E-09	2.65E-09	6.95E-11	0.00E+00	2.72E-09
2335	457600.1	3767655	2.405E-08	1.23E-09	0.00E+00	2.53E-08	2.41E-08	1.23E-09	0.00E+00	2.53E-08	7.20E-09	2.22E-10	0.00E+00	7.43E-09	2.73E-09	7.16E-11	0.00E+00	2.80E-09
2336	457590.2	3767655	2.477E-08	1.27E-09	0.00E+00	2.60E-08	2.48E-08	1.27E-09	0.00E+00	2.60E-08	7.42E-09	2.28E-10	0.00E+00	7.65E-09	2.81E-09	7.37E-11	0.00E+00	2.88E-09
2337	457580.2	3767655	2.548E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.63E-09	2.35E-10	0.00E+00	7.87E-09	2.89E-09	7.58E-11	0.00E+00	2.97E-09
2338	457570.3	3767655	2.619E-08	1.34E-09	0.00E+00	2.75E-08	2.62E-08	1.34E-09	0.00E+00	2.75E-08	7.85E-09	2.41E-10	0.00E+00	8.09E-09	2.97E-09	7.79E-11	0.00E+00	3.05E-09
2339	457560.3	3767655	2.69E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.06E-09	2.48E-10	0.00E+00	8.30E-09	3.05E-09	8.00E-11	0.00E+00	3.13E-09
2340	457550.4	3767655	2.76E-08	1.41E-09	0.00E+00	2.90E-08	2.76E-08	1.41E-09	0.00E+00	2.90E-08	8.27E-09	2.54E-10	0.00E+00	8.52E-09	3.13E-09	8.21E-11	0.00E+00	3.21E-09
2341	457540.4	3767655	2.829E-08	1.45E-09	0.00E+00	2.97E-08	2.83E-08	1.45E-09	0.00E+00	2.97E-08	8.47E-09	2.61E-10	0.00E+00	8.73E-09	3.21E-09	8.42E-11	0.00E+00	3.29E-09
2342	457530.5	3767655	2.897E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.68E-09	2.67E-10	0.00E+00	8.94E-09	3.29E-09	8.62E-11	0.00E+00	3.37E-09
2343	457520.5	3767655	2.963E-08	1.52E-09	0.00E+00	3.11E-08	2.96E-08	1.52E-09	0.00E+00	3.11E-08	8.87E-09	2.73E-10	0.00E+00	9.15E-09	3.36E-09	8.82E-11	0.00E+00	3.45E-09
2344	457510.6	3767655	3.027E-08	1.55E-09	0.00E+00	3.18E-08	3.03E-08	1.55E-09	0.00E+00	3.18E-08	9.07E-09	2.79E-10	0.00E+00	9.35E-09	3.43E-09	9.01E-11	0.00E+00	3.52E-09
2345	457500.6	3767655	3.088E-08	1.58E-09	0.00E+00	3.25E-08	3.09E-08	1.58E-09	0.00E+00	3.25E-08	9.25E-09	2.85E-10	0.00E+00	9.53E-09	3.50E-09	9.19E-11	0.00E+00	3.60E-09
2346	457490.7	3767655	3.147E-08	1.61E-09	0.00E+00	3.31E-08	3.15E-08	1.61E-09	0.00E+00	3.31E-08	9.43E-09	2.90E-10	0.00E+00	9.72E-09	3.57E-09	9.36E-11	0.00E+00	3.66E-09
2347	457480.7	3767655	3.203E-08	1.64E-09	0.00E+00	3.37E-08	3.20E-08	1.64E-09	0.00E+00	3.37E-08	9.59E-09	2.95E-10	0.00E+00	9.89E-09	3.63E-09	9.53E-11	0.00E+00	3.73E-09
2348	457470.8	3767655	3.257E-08	1.67E-09	0.00E+00	3.42E-08	3.26E-08	1.67E-09	0.00E+00	3.42E-08	9.76E-09	3.00E-10	0.00E+00	1.01E-08	3.70E-09	9.69E-11	0.00E+00	3.79E-09
2349	457460.8	3767655	3.309E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.91E-09	3.05E-10	0.00E+00	1.02E-08	3.75E-09	9.85E-11	0.00E+00	3.85E-09

2350	457450.9	3767655	3.358E-08	1.72E-09	0.00E+00	3.53E-08	3.36E-08	1.72E-09	0.00E+00	3.53E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.81E-09	9.99E-11	0.00E+00	3.91E-09
2351	457440.9	3767655	3.403E-08	1.74E-09	0.00E+00	3.58E-08	3.40E-08	1.74E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
2352	457431	3767655	3.445E-08	1.77E-09	0.00E+00	3.62E-08	3.44E-08	1.77E-09	0.00E+00	3.62E-08	1.03E-08	3.18E-10	0.00E+00	1.06E-08	3.91E-09	1.03E-10	0.00E+00	4.01E-09
2353	457421	3767655	3.483E-08	1.79E-09	0.00E+00	3.66E-08	3.48E-08	1.79E-09	0.00E+00	3.66E-08	1.04E-08	3.21E-10	0.00E+00	1.08E-08	3.95E-09	1.04E-10	0.00E+00	4.06E-09
2354	457411.1	3767655	3.517E-08	1.80E-09	0.00E+00	3.70E-08	3.52E-08	1.80E-09	0.00E+00	3.70E-08	1.05E-08	3.24E-10	0.00E+00	1.09E-08	3.99E-09	1.05E-10	0.00E+00	4.10E-09
2355	457401.1	3767655	3.548E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.10E-08	4.02E-09	1.06E-10	0.00E+00	4.13E-09
2356	457391.2	3767655	3.574E-08	1.83E-09	0.00E+00	3.76E-08	3.57E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.05E-09	1.06E-10	0.00E+00	4.16E-09
2357	457381.2	3767655	3.596E-08	1.84E-09	0.00E+00	3.78E-08	3.60E-08	1.84E-09	0.00E+00	3.78E-08	1.08E-08	3.31E-10	0.00E+00	1.11E-08	4.08E-09	1.07E-10	0.00E+00	4.19E-09
2358	457371.3	3767655	3.614E-08	1.85E-09	0.00E+00	3.80E-08	3.61E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.08E-10	0.00E+00	4.21E-09
2359	457361.3	3767655	3.627E-08	1.86E-09	0.00E+00	3.81E-08	3.63E-08	1.86E-09	0.00E+00	3.81E-08	1.09E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
2360	457351.4	3767655	3.634E-08	1.86E-09	0.00E+00	3.82E-08	3.63E-08	1.86E-09	0.00E+00	3.82E-08	1.09E-08	3.35E-10	0.00E+00	1.12E-08	4.12E-09	1.08E-10	0.00E+00	4.23E-09
2361	457341.4	3767655	3.637E-08	1.86E-09	0.00E+00	3.82E-08	3.64E-08	1.86E-09	0.00E+00	3.82E-08	1.09E-08	3.35E-10	0.00E+00	1.12E-08	4.13E-09	1.08E-10	0.00E+00	4.23E-09
2362	457331.5	3767655	3.635E-08	1.86E-09	0.00E+00	3.82E-08	3.64E-08	1.86E-09	0.00E+00	3.82E-08	1.09E-08	3.35E-10	0.00E+00	1.12E-08	4.12E-09	1.08E-10	0.00E+00	4.23E-09
2363	457726.8	3767641	1.532E-08	7.85E-10	0.00E+00	1.61E-08	1.53E-08	7.85E-10	0.00E+00	1.61E-08	4.59E-09	1.41E-10	0.00E+00	4.73E-09	1.74E-09	4.56E-11	0.00E+00	1.78E-09
2364	457735.9	3767644	1.499E-08	7.69E-10	0.00E+00	1.58E-08	1.50E-08	7.69E-10	0.00E+00	1.58E-08	4.49E-09	1.38E-10	0.00E+00	4.63E-09	1.70E-09	4.46E-11	0.00E+00	1.75E-09
2365	457745	3767648	1.467E-08	7.52E-10	0.00E+00	1.54E-08	1.47E-08	7.52E-10	0.00E+00	1.54E-08	4.39E-09	1.35E-10	0.00E+00	4.53E-09	1.66E-09	4.37E-11	0.00E+00	1.71E-09
2366	457754.1	3767652	1.435E-08	7.36E-10	0.00E+00	1.51E-08	1.43E-08	7.36E-10	0.00E+00	1.51E-08	4.30E-09	1.32E-10	0.00E+00	4.43E-09	1.63E-09	4.27E-11	0.00E+00	1.67E-09
2367	457763.2	3767656	1.403E-08	7.19E-10	0.00E+00	1.48E-08	1.40E-08	7.19E-10	0.00E+00	1.48E-08	4.20E-09	1.29E-10	0.00E+00	4.33E-09	1.59E-09	4.18E-11	0.00E+00	1.63E-09
2368	457772.2	3767659	1.372E-08	7.03E-10	0.00E+00	1.44E-08	1.37E-08	7.03E-10	0.00E+00	1.44E-08	4.11E-09	1.26E-10	0.00E+00	4.24E-09	1.56E-09	4.08E-11	0.00E+00	1.60E-09
2369	457781.3	3767663	1.342E-08	6.88E-10	0.00E+00	1.41E-08	1.34E-08	6.88E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
2370	457790.4	3767667	1.312E-08	6.73E-10	0.00E+00	1.38E-08	1.31E-08	6.73E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.05E-09	1.49E-09	3.90E-11	0.00E+00	1.53E-09
2371	457799.5	3767671	1.283E-08	6.58E-10	0.00E+00	1.35E-08	1.28E-08	6.58E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.46E-09	3.82E-11	0.00E+00	1.49E-09
2372	457808.6	3767674	1.255E-08	6.44E-10	0.00E+00	1.32E-08	1.26E-08	6.44E-10	0.00E+00	1.32E-08	3.76E-09	1.16E-10	0.00E+00	3.88E-09	1.42E-09	3.74E-11	0.00E+00	1.46E-09
2373	457817.7	3767678	1.228E-08	6.30E-10	0.00E+00	1.29E-08	1.23E-08	6.30E-10	0.00E+00	1.29E-08	3.68E-09	1.13E-10	0.00E+00	3.79E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
2374	457826.7	3767682	1.202E-08	6.16E-10	0.00E+00	1.26E-08	1.20E-08	6.16E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.58E-11	0.00E+00	1.40E-09
2375	457835.8	3767685	1.176E-08	6.03E-10	0.00E+00	1.24E-08	1.18E-08	6.03E-10	0.00E+00	1.24E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.33E-09	3.50E-11	0.00E+00	1.37E-09
2376	457844.9	3767689	1.151E-08	5.90E-10	0.00E+00	1.21E-08	1.15E-08	5.90E-10	0.00E+00	1.21E-08	3.45E-09	1.06E-10	0.00E+00	3.55E-09	1.31E-09	3.43E-11	0.00E+00	1.34E-09
2377	457854	3767693	1.127E-08	5.78E-10	0.00E+00	1.19E-08	1.13E-08	5.78E-10	0.00E+00	1.19E-08	3.38E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
2378	457863.1	3767697	1.104E-08	5.66E-10	0.00E+00	1.16E-08	1.10E-08	5.66E-10	0.00E+00	1.16E-08	3.31E-09	1.02E-10	0.00E+00	3.41E-09	1.25E-09	3.29E-11	0.00E+00	1.29E-09
2379	457872.2	3767700	1.082E-08	5.55E-10	0.00E+00	1.14E-08	1.08E-08	5.55E-10	0.00E+00	1.14E-08	3.24E-09	9.98E-11	0.00E+00	3.34E-09	1.23E-09	3.22E-11	0.00E+00	1.26E-09
2380	457881.2	3767704	1.061E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.78E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
2381	457890.3	3767708	1.041E-08	5.34E-10	0.00E+00	1.09E-08	1.04E-08	5.34E-10	0.00E+00	1.09E-08	3.12E-09	9.59E-11	0.00E+00	3.21E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
2382	457899.4	3767711	1.021E-08	5.24E-10	0.00E+00	1.07E-08	1.02E-08	5.24E-10	0.00E+00	1.07E-08	3.06E-09	9.42E-11	0.00E+00	3.15E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
2383	457908.5	3767715	1.003E-08	5.14E-10	0.00E+00	1.05E-08	1.00E-08	5.14E-10	0.00E+00	1.05E-08	3.00E-09	9.25E-11	0.00E+00	3.10E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
2384	457917.6	3767719	9.852E-09	5.05E-10	0.00E+00	1.04E-08	9.85E-09	5.05E-10	0.00E+00	1.04E-08	2.95E-09	9.08E-11	0.00E+00	3.04E-09	1.12E-09	2.93E-11	0.00E+00	1.15E-09
2385	457926.7	3767723	9.683E-09	4.96E-10	0.00E+00	1.02E-08	9.68E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.93E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
2386	457935.7	3767726	9.523E-09	4.88E-10	0.00E+00	1.00E-08	9.52E-09	4.88E-10	0.00E+00	1.00E-08	2.85E-09	8.78E-11	0.00E+00	2.94E-09	1.08E-09	2.83E-11	0.00E+00	1.11E-09
2387	457944.8	3767730	9.373E-09	4.81E-10	0.00E+00	9.85E-09	9.37E-09	4.81E-10	0.00E+00	9.85E-09	2.81E-09	8.64E-11	0.00E+00	2.89E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
2388	457953.9	3767734	9.23E-09	4.73E-10	0.00E+00	9.70E-09	9.23E-09	4.73E-10	0.00E+00	9.70E-09	2.76E-09	8.51E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.07E-09
2389	457963	3767737	9.096E-09	4.66E-10	0.00E+00	9.56E-09	9.10E-09	4.66E-10	0.00E+00	9.56E-09	2.72E-09	8.38E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
2390	457972.1	3767741	8.969E-09	4.60E-10	0.00E+00	9.43E-09	8.97E-09	4.60E-10	0.00E+00	9.43E-09	2.69E-09	8.27E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
2391	457985	3767754	8.945E-09	4.59E-10	0.00E+00	9.40E-09	8.95E-09	4.59E-10	0.00E+00	9.40E-09	2.68E-09	8.25E-11	0.00E+00	2.76E-09	1.01E-09	2.66E-11	0.00E+00	1.04E-09
2392	457988.8	3767763	9.048E-09	4.64E-10	0.00E+00	9.51E-09	9.05E-09	4.64E-10	0.00E+00	9.51E-09	2.71E-09	8.34E-11	0.00E+00	2.79E-09	1.03E-09	2.69E-11	0.00E+00	1.05E-09
2393	457992.7	3767772	9.161E-09	4.70E-10	0.00E+00	9.63E-09	9.16E-09	4.70E-10	0.00E+00	9.63E-09	2.74E-09	8.44E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
2394	458046.4	3767898	1.226E-08	6.28E-10	0.00E+00	1.29E-08	1.23E-08	6.28E-10	0.00E+00	1.29E-08	3.67E-09	1.13E-10	0.00E+00	3.78E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
2395	458050.3	3767908	1.262E-08	6.47E-10	0.00E+00	1.33E-08	1.26E-08	6.47E-10	0.00E+00	1.33E-08	3.78E-09	1.16E-10	0.00E+00	3.90E-09	1.43E-09	3.76E-11	0.00E+00	1.47E-09
2396	458054.1	3767917	1.301E-08	6.67E-10	0.00E+00	1.37E-08	1.30E-08	6.67E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.87E-11	0.00E+00	1.51E-09
2397	458057.9	3767926	1.343E-08	6.88E-10	0.00E+00	1.41E-08	1.34E-08	6.88E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	4.00E-11	0.00E+00	1.56E-09
2398	458061.8	3767935	1.386E-08	7.10E-10	0.00E+00	1.46E-08	1.39E-08	7.10E-10	0.00E+00	1.46E-08	4.15E-09	1.28E-10	0.00E+00	4.28E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
2399	458065.6	3767944	1.431E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
2400	458069.5	3767953	1.478E-08	7.58E-10	0.00E+00	1.55E-08	1.48E-08	7.58E-10	0.00E+00	1.55E-08	4.43E-09	1.36E-10	0.00E+00	4.56E-09	1.68E-09	4.40E-11	0.00E+00	1.72E-09
2401	458073.3	3767962	1.528E-08	7.83E-10	0.00E+00	1.61E-08	1.53E-08	7.83E-10	0.00E+00	1.61E-08	4.58E-09	1.41E-10	0.00E+00	4.72E-09	1.73E-09	4.55E-11	0.00E+00	1.78E-09
2402	458077.1	3767971	1.58E-08	8.10E-10	0.00E+00	1.66E-08	1.58E-08	8.10E-10	0.00E+00	1.66E-08	4.73E-09	1.46E-10	0.00E+00	4.88E-09	1.79E-09	4.70E-11	0.00E+00	1.84E-09
2403	458081	3767980	1.634E-08	8.37E-10	0.00E+00	1.72E-08	1.63E-08	8.37E-10	0.00E+00	1.72E-08	4.89E-09	1.51E-10	0.00E+00	5.04E-09	1.85E-09	4.86E-11	0.00E+00	1.90E-09
2404	458084.8	3767989	1.689E-08	8.66E-10	0.00E+00	1.78E-08	1.69E-08	8.66E-10	0.00E+00	1.78E-08	5.06E-09	1.56E-10	0.00E+00	5.21E-09	1.92E-09	5.03E-11	0.00E+00	1.97E-09
2405	458088.7	3767998	1.746E-08	8.95E-10	0.00E+00	1.84E-08	1.75E-08	8.95E-10	0.00E+00	1.84E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.20E-11	0.00E+00	2.03E-09
2406	458092.5	3768007	1.805E-08	9.25E-10	0.00E+00	1.90E-08	1.80E-08	9.25E-10	0.00E+00	1.90E-08	5.40E-09	1.66E-10	0.00E+00	5.57E-09	2.05E-09	5.37E-11	0.00E+00	2.10E-09
2407	458096.3	3768016	1.864E-08	9.56E-10	0.00E+00	1.96E-08	1.86E-08	9.56E-10	0.00E+00	1.96E-08	5.58E-09	1.72E-10	0.00E+00	5.75E-09	2.11E-09	5.55E-11	0.00E+00	2.17E-09
2408	457629.9	3767630	2.037E-08	1.04E-09	0.00E+00	2.14E-08	2.04E-08	1.04E-09	0.00E+00	2.14E-08	6.10E-09	1.88E-10	0.00E+00	6.29E-09	2.31E-09	6.06E-11	0.00E+00	2.37E-09
2409	457620	3767630	2.1E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.94E-10	0.00E+00	6.48E-09	2.38E-09	6.25E-11	0.00E+00	2.44E-09
2410	457610	3767630	2.163E-08	1.11E-09	0.00E+00	2.27E-08	2.16E-08	1.11E-09	0.00E+00	2.27E-08	6.48E-09	1.99E-10	0.00E+00	6.68E-09	2.45E-09	6.44E-11	0.00E+00	2.52E-09
2411	457600.1	3767630	2.226E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.67E-09	2.05E-10	0.00E+00	6.87E-09	2.53E-09	6.62E-11	0.00E+00	2.59E-09
2412	457590.1	3767630	2.29E-08	1.17E-09	0.00E+00	2.41E-08	2.29E-08	1.17E-09	0.00E+00	2.41E-08	6.86E-09	2.11E-10	0.00E+00	7.07E-09	2.60E-09	6.81E-11	0.00E+00	2.67E-09
2413	457580.2	3767630	2.354E-08	1.21E-09	0.00E+00	2.47E-08	2.35E-08	1.21E-09	0.00E+00	2.47E-08	7.05E-09	2.17E-10	0.00E+00	7.27E-09	2.67E-09	7.00E-11	0.00E+00	2.74E-09
2414	457570.2	3767630	2.418E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.24E-09	2.23E-10	0.00E+00	7.46E-09	2.74E-09	7.19E-11	0.00E+00	2.81E-09
2415	457560.3	3767630	2.481E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.43E-09	2.29E-10	0.00E+00	7.66E-09	2.81E-09	7.38E-11	0.00E+00	2.89E-09
2416	457550.3	3767630	2.544E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.62E-09	2.34E-10	0.00E+00	7.85E-09	2.89E-09	7.57E-11	0.00E+00	2.96E-09
2417	457540.4	3767630	2.606E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.80E-09	2.40E-10	0.00E+00	8.04E-09	2.96E-09	7.75E-11	0.00E+00	3.03E-09
2418	457530.4	3767630	2.667E-08	1.37E-09	0.00E+00	2.80E-08	2.67E-08	1.37E-09	0.00E+00	2.80E-08	7.99E-09	2.46E-10	0.00E+00	8.23E-09	3.03E-09	7.94E-11	0.00E+00	3.10E-09
2419	457520.5	3767630	2.727E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.17E-09	2.51E-10	0.00E+00	8.42E-09	3.09E-09	8.11E-11	0.00E+00	3.17E-09
2420	457510.5	3767630	2.785E-08	1.43E-09	0.00E+00	2.93E-08	2.78E-08	1.43E-09	0.00E+00	2.93E-08	8.34E-09	2.57E-10	0.00E+00	8.60E-09	3.16E-09	8.29E-11	0.00E+00	3.24E-09
2421	457500.6	3767630	2.84E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.51E-09	2.62E-10	0.00E+00	8.77E-09	3.22E-09	8.45E-11	0.00E+00	3.31E-09
2422	457490.6	3767630	2.894E-08	1.48E-09	0.00E+00	3.04E-08	2.89E-08	1.48E-09	0.00E+00	3.04E-08	8.67E-09	2.67E-10	0.00E+00	8.93E-09	3.28E-09	8.61E-11	0.00E+00	3.37E-09
2423	457480.7	3767630	2.945E-08	1.51E-09	0.00E+00	3.10E-08	2.94E-08	1.51E-09	0.00E+00	3.10E-08	8.82E-09	2.71E-10	0.00E+00	9.09E-09	3.34E-09	8.76E-11	0.00E+00	3.43E-09
2424	457470.7	3767630	2.995E-08	1.54E-09	0.00E+00	3.15E-08	3.00E-08	1.54E-09	0.00E+00	3.15E-08	8.97E-09	2.76E-10	0.00E+00	9.25E-09	3.40E-09	8.91E-11	0.00E+00	3.49E-09
2425	457460.8	3767630	3.043E-08	1.56E-09	0.00E+00	3.20E-08	3.04E-08	1.56E-09	0.00E+00	3.20E-08	9.11E-09	2.81E-10	0.00E+00	9.39E-09	3.45E-09	9.05E-11	0.00E+00	3.54E-09
2426	457450.8	3767630	3.088E-08	1.58E-09	0.00E+00	3.25E-08	3.09E-08	1.58E-09	0.00E+00	3.25E-08	9.25E-09	2.85E-10	0.00E+00	9.53E-09	3.50E-09	9.19E-11	0.00E+00	3.60E-09
2427	457440.9	3767630	3.13E-08	1.60E-09	0.00E+00	3.29E-08	3.13E-08	1.60E-09	0.00E+00	3.29E-08	9.38E-09	2.89E-10	0.00E+00	9.66E-09	3.55E-09	9.32E-11	0.00E+00	3.64E-09
2428	457430.9	3767630	3.17E-08	1.63E-09	0.00E+00	3.33E-08	3.17E-08	1.63E-09	0.00E+00	3.33E-08	9.49E-09	2.92E-10	0.00E+00	9.79E-09	3.60E-09	9.43E-11	0.00E+00	3.69E-09
2429	457421	3767630	3.206E-08	1.64E-09	0.00E+00	3.37E-08	3.21E-08	1.64E-09	0.00E+00	3.37E-08	9.60E-09	2.96E-10	0.00E+00	9.90E-09	3.64E-09	9.54E-11	0.00E+00	3.73E-09
2430	457411.1	3767630	3.239E-08	1.66E-09	0.00E+00	3.41E-08	3.24E-08	1.66E-09	0.00E+00	3.41E-08	9.70E-09	2.99E-10	0.00E+00	1.00E-08	3.67E-09	9.64E-11	0.00E+00	3.77E-09
2431	457401.1	3767630	3.269E-08	1.68E-09	0.00E+00	3.44E-08	3.27E-08	1.68E-09	0.00E+00	3.44E-08	9.79E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.73E-11	0.00E+00	3.81E-09
2432	457391.2	3767630	3.295E-08	1.69E-09	0.00E+00	3.46E-08	3.29E-08	1.69E-09	0.00E+00	3.46E-08	9.87E-09	3.04E-10	0.00E+00	1.02E-08	3.74E-09	9.80E-11	0.00E+00	3.84E-09
2433	457381.2	3767630	3.317E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.94E-09	3.06E-10	0.00E+00	1.02E-08	3.76E-09	9.87E-11	0.00E+00	3.86E-09
2434	457371.3	3767630	3.336E-08	1.71E-09	0.00E+00	3.51E-08	3.34E-08	1.71E-09	0.00E+00	3.51E-08	9.99E-09	3.07E-10	0.00E+00	1.03E-08	3.78E-09	9.93E-11	0.00E+00	3.88E-09
2435	457361.3	3767630	3.351E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.97E-11	0.00E+00	3.90E-09
2436	457351.4	3767630	3.362E-08	1.72E-09	0.00E+00	3.53E-08	3.36E-08	1.72E-09	0.00E+00	3.53E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.81E-09	1.00E-10	0.00E+00	3.91E-09
2437	457341.4	3767630	3.369E-08	1.73E-09	0.00E+00	3.54E-08	3.37E-08	1.73E-09	0.00E+00	3.54E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.82E-09	1.00E-10	0.00E+00	3.92E-09
2438	457331.5	3767630	3.373E-08	1.73E-09	0.00E+00	3.55E-08	3.37E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.00E-10	0.00E+00	3.93E-09
2439	457763.3	3767616	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.28E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
2440	457772.4	3767619	1.258E-08	6.45E-10	0.00E+00	1.32E-08	1.26E-08	6.45E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.88E-09	1.43E-09	3.74E-11	0.00E+00	1.46E-09
2441	457781.5	3767623	1.232E-08	6.31E-10	0.00E+00	1.29E-08	1.23E-08	6.31E-10	0.00E+00	1.29E-08	3.69E-09	1.14E-10	0.00E+00	3.80E-09	1.40E-09	3.67E-11	0.00E+00	1.43E-09
2442	457790.6	3767627	1.206E-08	6.18E-10	0.00E+00	1.27E-08	1.21E-08	6.18E-10	0.00E+00	1.27E-08	3.61E-09	1.11E-10	0.00E+00	3.72E-09	1.37E-09	3.59E-11	0.00E+00	1.40E-09
2443	457799.7	3767631	1.181E-08	6.05E-10	0.00E+00	1.24E-08	1.18E-08	6.05E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.51E-11	0.00E+00	1.37E-09
2444	457808.8	3767634	1.156E-08	5.93E-10	0.00E+00	1.22E-08	1.16E-08	5.93E-10	0.00E+00	1.22E-08	3.46E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09
2445	457817.9	3767638	1.132E-08	5.80E-10	0.00E+00	1.19E-08	1.13E-08	5.80E-10	0.00E+00	1.19E-08	3.39E-09	1.04E-10	0.00E+00	3.49E-09	1.28E-09	3.37E-11	0.00E+00	1.32E-09
2446	457827.1	3767642	1.109E-08	5.68E-10	0.00E+00	1.17E-08	1.11E-08	5.68E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
2447	457836.2	3767646	1.086E-08	5.57E-10	0.00E+00	1.14E-08	1.09E-08	5.57E-10	0.00E+00	1.14E-08	3.25E-09	1.00E-10	0.00E+00	3.35E-09	1.23E-09	3.23E-11	0.00E+00	1.26E-09
2448	457845.3	3767649	1.064E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.19E-09	9.81E-11	0.00E+00	3.28E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
2449	457854.4	3767653	1.043E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.12E-09	9.61E-11	0.00E+00	3.22E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
2450	457863.5	3767657	1.022E-08	5.24E-10	0.00E+00	1.07E-08	1.02E-08	5.24E-10	0.00E+00	1.07E-08	3.06E-09	9.42E-11	0.00E+00	3.16E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
2451	457872.6	3767660	1.002E-08	5.14E-10	0.00E+00	1.05E-08	1.00E-08	5.14E-10	0.00E+00	1.05E-08	3.00E-09	9.24E-11	0.00E+00	3.09E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
2452	457881.7	3767664	9.828E-09	5.04E-10	0.00E+00	1.03E-08	9.83E-09	5.04E-10	0.00E+00	1.03E-08	2.94E-09	9.06E-11	0.00E+00	3.03E-09	1.12E-09	2.92E-11	0.00E+00	1.14E-09
2453	457890.8	3767668	9.642E-09	4.94E-10	0.00E+00	1.01E-08	9.64E-09	4.94E-10	0.00E+00	1.01E-08	2.89E-09	8.89E-11	0.00E+00	2.98E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
2454	457899.9	3767672	9.463E-09	4.85E-10	0.00E+00	9.95E-09	9.46E-09	4.85E-10	0.00E+00	9.95E-09	2.83E-09	8.72E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
2455	457909	3767675	9.291E-09	4.76E-10	0.00E+00	9.77E-09	9.29E-09	4.76E-10	0.00E+00	9.77E-09	2.78E-09	8.56E-11	0.00E+00	2.87E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
2456	457918.2	3767679	9.126E-09	4.68E-10	0.00E+00	9.59E-09	9.13E-09	4.68E-10	0.00E+00	9.59E-09	2.73E-09	8.41E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
2457	457927.3	3767683	8.968E-09	4.60E-10	0.00E+00	9.43E-09	8.97E-09	4.60E-10	0.00E+00	9.43E-09	2.69E-09	8.27E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
2458	457936.4	3767687	8.817E-09	4.52E-10	0.00E+00	9.27E-09	8.82E-09	4.52E-10	0.00E+00	9.27E-09	2.64E-09	8.13E-11	0.00E+00	2.72E-09	1.00E-09	2.62E-11	0.00E+00	1.03E-09
2459	457945.5	3767690	8.673E-09	4.45E-10	0.00E+00	9.12E-09	8.67E-09	4.45E-10	0.00E+00	9.12E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.84E-10	2.58E-11	0.00E+00	1.01E-09
2460	457954.6	3767694	8.535E-09	4.38E-10	0.00E+00	8.97E-09	8.53E-09	4.38E-10	0.00E+00	8.97E-09	2.56E-09	7.87E-11	0.00E+00	2.63E-09	9.68E-10	2.54E-11	0.00E+00	9.94E-10
2461	457963.7	3767698	8.404E-09	4.31E-10	0.00E+00	8.83E-09	8.40E-09	4.31E-10	0.00E+00	8.83E-09	2.52E-09	7.75E-11	0.00E+00	2.59E-09	9.53E-10	2.50E-11	0.00E+00	9.78E-10

2462	457972.8	3767702	8.277E-09	4.24E-10	0.00E+00	8.70E-09	8.28E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.56E-09	9.39E-10	2.46E-11	0.00E+00	9.64E-10
2463	457981.9	3767705	8.158E-09	4.18E-10	0.00E+00	8.58E-09	8.16E-09	4.18E-10	0.00E+00	8.58E-09	2.44E-09	7.52E-11	0.00E+00	2.52E-09	9.26E-10	2.43E-11	0.00E+00	9.50E-10
2464	457991	3767709	8.045E-09	4.12E-10	0.00E+00	8.46E-09	8.05E-09	4.12E-10	0.00E+00	8.46E-09	2.41E-09	7.42E-11	0.00E+00	2.48E-09	9.13E-10	2.39E-11	0.00E+00	9.37E-10
2465	458086.3	3767898	1.135E-08	5.82E-10	0.00E+00	1.19E-08	1.13E-08	5.82E-10	0.00E+00	1.19E-08	3.40E-09	1.05E-10	0.00E+00	3.50E-09	1.29E-09	3.38E-11	0.00E+00	1.32E-09
2466	458090.1	3767907	1.168E-08	5.99E-10	0.00E+00	1.23E-08	1.17E-08	5.99E-10	0.00E+00	1.23E-08	3.50E-09	1.08E-10	0.00E+00	3.61E-09	1.32E-09	3.48E-11	0.00E+00	1.36E-09
2467	458094	3767916	1.203E-08	6.17E-10	0.00E+00	1.26E-08	1.20E-08	6.17E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.58E-11	0.00E+00	1.40E-09
2468	458128.6	3767997	1.592E-08	8.16E-10	0.00E+00	1.67E-08	1.59E-08	8.16E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
2469	458132.5	3768006	1.642E-08	8.42E-10	0.00E+00	1.73E-08	1.64E-08	8.42E-10	0.00E+00	1.73E-08	4.92E-09	1.51E-10	0.00E+00	5.07E-09	1.86E-09	4.89E-11	0.00E+00	1.91E-09
2470	458136.3	3768015	1.693E-08	8.68E-10	0.00E+00	1.78E-08	1.69E-08	8.68E-10	0.00E+00	1.78E-08	5.07E-09	1.56E-10	0.00E+00	5.23E-09	1.92E-09	5.04E-11	0.00E+00	1.97E-09
2471	457863.8	3767617	9.505E-09	4.87E-10	0.00E+00	9.99E-09	9.51E-09	4.87E-10	0.00E+00	9.99E-09	2.85E-09	8.76E-11	0.00E+00	2.93E-09	1.08E-09	2.83E-11	0.00E+00	1.11E-09
2472	457873	3767621	9.325E-09	4.78E-10	0.00E+00	9.80E-09	9.33E-09	4.78E-10	0.00E+00	9.80E-09	2.79E-09	8.60E-11	0.00E+00	2.88E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09
2473	457882.1	3767624	9.152E-09	4.69E-10	0.00E+00	9.62E-09	9.15E-09	4.69E-10	0.00E+00	9.62E-09	2.74E-09	8.44E-11	0.00E+00	2.83E-09	1.04E-09	2.72E-11	0.00E+00	1.07E-09
2474	457891.2	3767628	8.983E-09	4.61E-10	0.00E+00	9.44E-09	8.98E-09	4.61E-10	0.00E+00	9.44E-09	2.69E-09	8.28E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.05E-09
2475	457900.4	3767632	8.82E-09	4.52E-10	0.00E+00	9.27E-09	8.82E-09	4.52E-10	0.00E+00	9.27E-09	2.64E-09	8.13E-11	0.00E+00	2.72E-09	1.00E-09	2.62E-11	0.00E+00	1.03E-09
2476	457909.5	3767636	8.662E-09	4.44E-10	0.00E+00	9.11E-09	8.66E-09	4.44E-10	0.00E+00	9.11E-09	2.59E-09	7.98E-11	0.00E+00	2.67E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
2477	457918.6	3767639	8.509E-09	4.36E-10	0.00E+00	8.94E-09	8.51E-09	4.36E-10	0.00E+00	8.94E-09	2.55E-09	7.84E-11	0.00E+00	2.63E-09	9.65E-10	2.53E-11	0.00E+00	9.91E-10
2478	457927.8	3767643	8.361E-09	4.29E-10	0.00E+00	8.79E-09	8.36E-09	4.29E-10	0.00E+00	8.79E-09	2.50E-09	7.71E-11	0.00E+00	2.58E-09	9.49E-10	2.49E-11	0.00E+00	9.74E-10
2479	457936.9	3767647	8.22E-09	4.21E-10	0.00E+00	8.64E-09	8.22E-09	4.21E-10	0.00E+00	8.64E-09	2.46E-09	7.58E-11	0.00E+00	2.54E-09	9.33E-10	2.45E-11	0.00E+00	9.57E-10
2480	457946	3767651	8.083E-09	4.14E-10	0.00E+00	8.50E-09	8.08E-09	4.14E-10	0.00E+00	8.50E-09	2.42E-09	7.45E-11	0.00E+00	2.50E-09	9.17E-10	2.41E-11	0.00E+00	9.41E-10
2481	457955.2	3767654	7.952E-09	4.08E-10	0.00E+00	8.36E-09	7.95E-09	4.08E-10	0.00E+00	8.36E-09	2.38E-09	7.33E-11	0.00E+00	2.46E-09	9.02E-10	2.37E-11	0.00E+00	9.26E-10
2482	457964.3	3767658	7.827E-09	4.01E-10	0.00E+00	8.23E-09	7.83E-09	4.01E-10	0.00E+00	8.23E-09	2.34E-09	7.21E-11	0.00E+00	2.42E-09	8.88E-10	2.33E-11	0.00E+00	9.11E-10
2483	457973.4	3767662	7.707E-09	3.95E-10	0.00E+00	8.10E-09	7.71E-09	3.95E-10	0.00E+00	8.10E-09	2.31E-09	7.10E-11	0.00E+00	2.38E-09	8.74E-10	2.29E-11	0.00E+00	8.97E-10
2484	457982.6	3767666	7.592E-09	3.89E-10	0.00E+00	7.98E-09	7.59E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	7.00E-11	0.00E+00	2.34E-09	8.61E-10	2.26E-11	0.00E+00	8.84E-10
2485	457991.7	3767669	7.482E-09	3.84E-10	0.00E+00	7.87E-09	7.48E-09	3.84E-10	0.00E+00	7.87E-09	2.24E-09	6.90E-11	0.00E+00	2.31E-09	8.49E-10	2.23E-11	0.00E+00	8.71E-10
2486	458126.1	3767897	1.055E-08	5.41E-10	0.00E+00	1.11E-08	1.06E-08	5.41E-10	0.00E+00	1.11E-08	3.16E-09	9.73E-11	0.00E+00	3.26E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
2487	458130	3767906	1.085E-08	5.56E-10	0.00E+00	1.14E-08	1.09E-08	5.56E-10	0.00E+00	1.14E-08	3.25E-09	1.00E-10	0.00E+00	3.35E-09	1.23E-09	3.23E-11	0.00E+00	1.26E-09
2488	458133.8	3767915	1.117E-08	5.72E-10	0.00E+00	1.17E-08	1.12E-08	5.72E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.45E-09	1.27E-09	3.32E-11	0.00E+00	1.30E-09
2489	458137.7	3767924	1.149E-08	5.89E-10	0.00E+00	1.21E-08	1.15E-08	5.89E-10	0.00E+00	1.21E-08	3.44E-09	1.06E-10	0.00E+00	3.55E-09	1.30E-09	3.42E-11	0.00E+00	1.34E-09
2490	458141.6	3767933	1.184E-08	6.07E-10	0.00E+00	1.24E-08	1.18E-08	6.07E-10	0.00E+00	1.24E-08	3.55E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
2491	458145.4	3767942	1.219E-08	6.25E-10	0.00E+00	1.28E-08	1.22E-08	6.25E-10	0.00E+00	1.28E-08	3.65E-09	1.12E-10	0.00E+00	3.76E-09	1.38E-09	3.63E-11	0.00E+00	1.42E-09
2492	458149.3	3767951	1.257E-08	6.44E-10	0.00E+00	1.32E-08	1.26E-08	6.44E-10	0.00E+00	1.32E-08	3.76E-09	1.16E-10	0.00E+00	3.88E-09	1.43E-09	3.74E-11	0.00E+00	1.46E-09
2493	458153.1	3767960	1.295E-08	6.64E-10	0.00E+00	1.36E-08	1.30E-08	6.64E-10	0.00E+00	1.36E-08	3.88E-09	1.19E-10	0.00E+00	4.00E-09	1.47E-09	3.85E-11	0.00E+00	1.51E-09
2494	458157	3767970	1.334E-08	6.84E-10	0.00E+00	1.40E-08	1.33E-08	6.84E-10	0.00E+00	1.40E-08	4.00E-09	1.23E-10	0.00E+00	4.12E-09	1.51E-09	3.97E-11	0.00E+00	1.55E-09
2495	458160.9	3767979	1.375E-08	7.05E-10	0.00E+00	1.45E-08	1.38E-08	7.05E-10	0.00E+00	1.45E-08	4.12E-09	1.27E-10	0.00E+00	4.25E-09	1.56E-09	4.09E-11	0.00E+00	1.60E-09
2496	458164.7	3767988	1.416E-08	7.26E-10	0.00E+00	1.49E-08	1.42E-08	7.26E-10	0.00E+00	1.49E-08	4.24E-09	1.31E-10	0.00E+00	4.37E-09	1.61E-09	4.21E-11	0.00E+00	1.65E-09
2497	458168.6	3767997	1.458E-08	7.48E-10	0.00E+00	1.53E-08	1.46E-08	7.48E-10	0.00E+00	1.53E-08	4.37E-09	1.34E-10	0.00E+00	4.50E-09	1.65E-09	4.34E-11	0.00E+00	1.70E-09
2498	458172.4	3768006	1.5E-08	7.69E-10	0.00E+00	1.58E-08	1.50E-08	7.69E-10	0.00E+00	1.58E-08	4.49E-09	1.38E-10	0.00E+00	4.63E-09	1.70E-09	4.46E-11	0.00E+00	1.75E-09
2499	458176.3	3768015	1.543E-08	7.91E-10	0.00E+00	1.62E-08	1.54E-08	7.91E-10	0.00E+00	1.62E-08	4.62E-09	1.42E-10	0.00E+00	4.76E-09	1.75E-09	4.59E-11	0.00E+00	1.80E-09
2500	457955.6	3767615	7.454E-09	3.82E-10	0.00E+00	7.84E-09	7.45E-09	3.82E-10	0.00E+00	7.84E-09	2.23E-09	6.87E-11	0.00E+00	2.30E-09	8.46E-10	2.22E-11	0.00E+00	8.68E-10
2501	457964.8	3767618	7.335E-09	3.76E-10	0.00E+00	7.71E-09	7.34E-09	3.76E-10	0.00E+00	7.71E-09	2.20E-09	6.76E-11	0.00E+00	2.26E-09	8.32E-10	2.18E-11	0.00E+00	8.54E-10
2502	457973.9	3767622	7.221E-09	3.70E-10	0.00E+00	7.59E-09	7.22E-09	3.70E-10	0.00E+00	7.59E-09	2.16E-09	6.66E-11	0.00E+00	2.23E-09	8.19E-10	2.15E-11	0.00E+00	8.41E-10
2503	457983.1	3767626	7.112E-09	3.65E-10	0.00E+00	7.48E-09	7.11E-09	3.65E-10	0.00E+00	7.48E-09	2.13E-09	6.56E-11	0.00E+00	2.20E-09	8.07E-10	2.12E-11	0.00E+00	8.28E-10
2504	458127.3	3767805	7.769E-09	3.98E-10	0.00E+00	8.17E-09	7.77E-09	3.98E-10	0.00E+00	8.17E-09	2.33E-09	7.16E-11	0.00E+00	2.40E-09	8.81E-10	2.31E-11	0.00E+00	9.05E-10
2505	458131.2	3767814	7.926E-09	4.06E-10	0.00E+00	8.33E-09	7.93E-09	4.06E-10	0.00E+00	8.33E-09	2.37E-09	7.31E-11	0.00E+00	2.45E-09	8.99E-10	2.36E-11	0.00E+00	9.23E-10
2506	458135.1	3767823	8.094E-09	4.15E-10	0.00E+00	8.51E-09	8.09E-09	4.15E-10	0.00E+00	8.51E-09	2.42E-09	7.46E-11	0.00E+00	2.50E-09	9.18E-10	2.41E-11	0.00E+00	9.42E-10
2507	458138.9	3767832	8.273E-09	4.24E-10	0.00E+00	8.70E-09	8.27E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.55E-09	9.39E-10	2.46E-11	0.00E+00	9.63E-10
2508	458142.8	3767842	8.463E-09	4.34E-10	0.00E+00	8.90E-09	8.46E-09	4.34E-10	0.00E+00	8.90E-09	2.53E-09	7.80E-11	0.00E+00	2.61E-09	9.60E-10	2.52E-11	0.00E+00	9.85E-10
2509	458146.7	3767851	8.666E-09	4.44E-10	0.00E+00	9.11E-09	8.67E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
2510	458150.5	3767860	8.879E-09	4.55E-10	0.00E+00	9.33E-09	8.88E-09	4.55E-10	0.00E+00	9.33E-09	2.66E-09	8.19E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
2511	458154.4	3767869	9.105E-09	4.67E-10	0.00E+00	9.57E-09	9.10E-09	4.67E-10	0.00E+00	9.57E-09	2.73E-09	8.39E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
2512	458158.3	3767878	9.341E-09	4.79E-10	0.00E+00	9.82E-09	9.34E-09	4.79E-10	0.00E+00	9.82E-09	2.80E-09	8.61E-11	0.00E+00	2.88E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09
2513	458162.1	3767887	9.588E-09	4.92E-10	0.00E+00	1.01E-08	9.59E-09	4.92E-10	0.00E+00	1.01E-08	2.87E-09	8.84E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
2514	458166	3767896	9.846E-09	5.05E-10	0.00E+00	1.04E-08	9.85E-09	5.05E-10	0.00E+00	1.04E-08	2.95E-09	9.08E-11	0.00E+00	3.04E-09	1.12E-09	2.93E-11	0.00E+00	1.15E-09
2515	458169.9	3767905	1.012E-08	5.19E-10	0.00E+00	1.06E-08	1.01E-08	5.19E-10	0.00E+00	1.06E-08	3.03E-09	9.33E-11	0.00E+00	3.12E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
2516	458173.7	3767914	1.04E-08	5.33E-10	0.00E+00	1.09E-08	1.04E-08	5.33E-10	0.00E+00	1.09E-08	3.12E-09	9.59E-11	0.00E+00	3.21E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
2517	458177.6	3767923	1.07E-08	5.49E-10	0.00E+00	1.12E-08	1.07E-08	5.49E-10	0.00E+00	1.12E-08	3.21E-09	9.86E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.25E-09
2518	458181.5	3767933	1.101E-08	5.64E-10	0.00E+00	1.16E-08	1.10E-08	5.64E-10	0.00E+00	1.16E-08	3.30E-09	1.01E-10	0.00E+00	3.40E-09	1.25E-09	3.28E-11	0.00E+00	1.28E-09
2519	458185.4	3767942	1.133E-08	5.81E-10	0.00E+00	1.19E-08	1.13E-08	5.81E-10	0.00E+00	1.19E-08	3.39E-09	1.04E-10	0.00E+00	3.50E-09	1.29E-09	3.37E-11	0.00E+00	1.32E-09
2520	458189.2	3767951	1.166E-08	5.98E-10	0.00E+00	1.23E-08	1.17E-08	5.98E-10	0.00E+00	1.23E-08	3.49E-09	1.07E-10	0.00E+00	3.60E-09	1.32E-09	3.47E-11	0.00E+00	1.36E-09
2521	458193.1	3767960	1.199E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.59E-09	1.11E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
2522	458197	3767969	1.234E-08	6.33E-10	0.00E+00	1.30E-08	1.23E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
2523	458200.8	3767978	1.27E-08	6.51E-10	0.00E+00	1.33E-08	1.27E-08	6.51E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
2524	458204.7	3767987	1.305E-08	6.69E-10	0.00E+00	1.37E-08	1.31E-08	6.69E-10	0.00E+00	1.37E-08	3.91E-09	1.20E-10	0.00E+00	4.03E-09	1.48E-09	3.88E-11	0.00E+00	1.52E-09
2525	458208.6	3767996	1.342E-08	6.88E-10	0.00E+00	1.41E-08	1.34E-08	6.88E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
2526	458212.4	3768005	1.378E-08	7.07E-10	0.00E+00	1.45E-08	1.38E-08	7.07E-10	0.00E+00	1.45E-08	4.13E-09	1.27E-10	0.00E+00	4.26E-09	1.56E-09	4.10E-11	0.00E+00	1.60E-09
2527	458216.3	3768014	1.416E-08	7.26E-10	0.00E+00	1.49E-08	1.42E-08	7.26E-10	0.00E+00	1.49E-08	4.24E-09	1.31E-10	0.00E+00	4.37E-09	1.61E-09	4.21E-11	0.00E+00	1.65E-09
2528	458124.5	3767704	6.143E-09	3.15E-10	0.00E+00	6.46E-09	6.14E-09	3.15E-10	0.00E+00	6.46E-09	1.84E-09	5.66E-11	0.00E+00	1.90E-09	6.97E-10	1.83E-11	0.00E+00	7.15E-10
2529	458128.4	3767713	6.215E-09	3.19E-10	0.00E+00	6.53E-09	6.22E-09	3.19E-10	0.00E+00	6.53E-09	1.86E-09	5.73E-11	0.00E+00	1.92E-09	7.05E-10	1.85E-11	0.00E+00	7.24E-10
2530	458132.3	3767722	6.293E-09	3.23E-10	0.00E+00	6.62E-09	6.29E-09	3.23E-10	0.00E+00	6.62E-09	1.88E-09	5.80E-11	0.00E+00	1.94E-09	7.14E-10	1.87E-11	0.00E+00	7.33E-10
2531	458136.2	3767731	6.376E-09	3.27E-10	0.00E+00	6.70E-09	6.38E-09	3.27E-10	0.00E+00	6.70E-09	1.91E-09	5.88E-11	0.00E+00	1.97E-09	7.23E-10	1.90E-11	0.00E+00	7.42E-10
2532	458140	3767740	6.466E-09	3.31E-10	0.00E+00	6.80E-09	6.47E-09	3.31E-10	0.00E+00	6.80E-09	1.94E-09	5.96E-11	0.00E+00	2.00E-09	7.34E-10	1.92E-11	0.00E+00	7.53E-10
2533	458143.9	3767750	6.562E-09	3.36E-10	0.00E+00	6.90E-09	6.56E-09	3.36E-10	0.00E+00	6.90E-09	1.97E-09	6.05E-11	0.00E+00	2.03E-09	7.45E-10	1.95E-11	0.00E+00	7.64E-10
2534	458147.8	3767759	6.665E-09	3.42E-10	0.00E+00	7.01E-09	6.67E-09	3.42E-10	0.00E+00	7.01E-09	2.00E-09	6.14E-11	0.00E+00	2.06E-09	7.56E-10	1.98E-11	0.00E+00	7.76E-10
2535	458151.7	3767768	6.776E-09	3.47E-10	0.00E+00	7.12E-09	6.78E-09	3.47E-10	0.00E+00	7.12E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.69E-10	2.02E-11	0.00E+00	7.89E-10
2536	458155.5	3767777	6.894E-09	3.53E-10	0.00E+00	7.25E-09	6.89E-09	3.53E-10	0.00E+00	7.25E-09	2.06E-09	6.35E-11	0.00E+00	2.13E-09	7.82E-10	2.05E-11	0.00E+00	8.03E-10
2537	458159.4	3767786	7.018E-09	3.60E-10	0.00E+00	7.38E-09	7.02E-09	3.60E-10	0.00E+00	7.38E-09	2.10E-09	6.47E-11	0.00E+00	2.17E-09	7.96E-10	2.09E-11	0.00E+00	8.17E-10
2538	458163.3	3767795	7.15E-09	3.67E-10	0.00E+00	7.52E-09	7.15E-09	3.67E-10	0.00E+00	7.52E-09	2.14E-09	6.59E-11	0.00E+00	2.21E-09	8.11E-10	2.13E-11	0.00E+00	8.32E-10
2539	458167.2	3767804	7.291E-09	3.74E-10	0.00E+00	7.66E-09	7.29E-09	3.74E-10	0.00E+00	7.66E-09	2.18E-09	6.72E-11	0.00E+00	2.25E-09	8.27E-10	2.17E-11	0.00E+00	8.49E-10
2540	458171	3767813	7.441E-09	3.81E-10	0.00E+00	7.82E-09	7.44E-09	3.81E-10	0.00E+00	7.82E-09	2.23E-09	6.86E-11	0.00E+00	2.30E-09	8.44E-10	2.21E-11	0.00E+00	8.66E-10
2541	458174.9	3767822	7.601E-09	3.90E-10	0.00E+00	7.99E-09	7.60E-09	3.90E-10	0.00E+00	7.99E-09	2.28E-09	7.01E-11	0.00E+00	2.35E-09	8.62E-10	2.26E-11	0.00E+00	8.85E-10
2542	458178.8	3767832	7.771E-09	3.98E-10	0.00E+00	8.17E-09	7.77E-09	3.98E-10	0.00E+00	8.17E-09	2.33E-09	7.16E-11	0.00E+00	2.40E-09	8.82E-10	2.31E-11	0.00E+00	9.05E-10
2543	458182.7	3767841	7.95E-09	4.08E-10	0.00E+00	8.36E-09	7.95E-09	4.08E-10	0.00E+00	8.36E-09	2.38E-09	7.33E-11	0.00E+00	2.45E-09	9.02E-10	2.37E-11	0.00E+00	9.26E-10
2544	458186.5	3767850	8.139E-09	4.17E-10	0.00E+00	8.56E-09	8.14E-09	4.17E-10	0.00E+00	8.56E-09	2.44E-09	7.50E-11	0.00E+00	2.51E-09	9.23E-10	2.42E-11	0.00E+00	9.48E-10
2545	458190.4	3767859	8.338E-09	4.27E-10	0.00E+00	8.77E-09	8.34E-09	4.27E-10	0.00E+00	8.77E-09	2.50E-09	7.69E-11	0.00E+00	2.57E-09	9.46E-10	2.48E-11	0.00E+00	9.71E-10
2546	458194.3	3767868	8.546E-09	4.38E-10	0.00E+00	8.98E-09	8.55E-09	4.38E-10	0.00E+00	8.98E-09	2.56E-09	7.88E-11	0.00E+00	2.64E-09	9.70E-10	2.54E-11	0.00E+00	9.95E-10
2547	458198.2	3767877	8.762E-09	4.49E-10	0.00E+00	9.21E-09	8.76E-09	4.49E-10	0.00E+00	9.21E-09	2.62E-09	8.08E-11	0.00E+00	2.71E-09	9.94E-10	2.61E-11	0.00E+00	1.02E-09
2548	458202	3767886	8.988E-09	4.61E-10	0.00E+00	9.45E-09	8.99E-09	4.61E-10	0.00E+00	9.45E-09	2.69E-09	8.29E-11	0.00E+00	2.78E-09	1.02E-09	2.67E-11	0.00E+00	1.05E-09
2549	458205.9	3767895	9.224E-09	4.73E-10	0.00E+00	9.70E-09	9.22E-09	4.73E-10	0.00E+00	9.70E-09	2.76E-09	8.50E-11	0.00E+00	2.85E-09	1.05E-09	2.74E-11	0.00E+00	1.07E-09
2550	458209.8	3767905	9.472E-09	4.86E-10	0.00E+00	9.96E-09	9.47E-09	4.86E-10	0.00E+00	9.96E-09	2.84E-09	8.73E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
2551	458213.7	3767914	9.729E-09	4.99E-10	0.00E+00	1.02E-08	9.73E-09	4.99E-10	0.00E+00	1.02E-08	2.91E-09	8.97E-11	0.00E+00	3.00E-09	1.10E-09	2.90E-11	0.00E+00	1.13E-09
2552	458217.5	3767923	9.996E-09	5.12E-10	0.00E+00	1.05E-08	1.00E-08	5.12E-10	0.00E+00	1.05E-08	2.99E-09	9.21E-11	0.00E+00	3.09E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
2553	458221.4	3767932	1.027E-08	5.27E-10	0.00E+00	1.08E-08	1.03E-08	5.27E-10	0.00E+00	1.08E-08	3.08E-09	9.47E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
2554	458225.3	3767941	1.056E-08	5.41E-10	0.00E+00	1.11E-08	1.06E-08	5.41E-10	0.00E+00	1.11E-08	3.16E-09	9.73E-11	0.00E+00	3.26E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
2555	458229.2	3767950	1.085E-08	5.56E-10	0.00E+00	1.14E-08	1.08E-08	5.56E-10	0.00E+00	1.14E-08	3.25E-09	1.00E-10	0.00E+00	3.35E-09	1.23E-09	3.23E-11	0.00E+00	1.26E-09
2556	458233	3767959	1.115E-08	5.71E-10	0.00E+00	1.17E-08	1.11E-08	5.71E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.44E-09	1.26E-09	3.32E-11	0.00E+00	1.30E-09
2557	458236.9	3767968	1.145E-08	5.87E-10	0.00E+00	1.20E-08	1.14E-08	5.87E-10	0.00E+00	1.20E-08	3.43E-09	1.06E-10	0.00E+00	3.53E-09	1.30E-09	3.41E-11	0.00E+00	1.33E-09
2558	458240.8	3767977	1.176E-08	6.03E-10	0.00E+00	1.24E-08	1.18E-08	6.03E-10	0.00E+00	1.24E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.33E-09	3.50E-11	0.00E+00	1.37E-09
2559	458244.7	3767987	1.207E-08	6.19E-10	0.00E+00	1.27E-08	1.21E-08	6.19E-10	0.00E+00	1.27E-08	3.61E-09	1.11E-10	0.00E+00	3.73E-09	1.37E-09	3.59E-11	0.00E+00	1.41E-09
2560	458248.5	3767996	1.239E-08	6.35E-10	0.00E+00	1.30E-08	1.24E-08	6.35E-10	0.00E+00	1.30E-08	3.71E-09	1.14E-10	0.00E+00	3.83E-09	1.41E-09	3.69E-11	0.00E+00	1.44E-09
2561	458252.4	3768005	1.272E-08	6.52E-10	0.00E+00	1.34E-08	1.27E-08	6.52E-10	0.00E+00	1.34E-08	3.81E-09	1.17E-10	0.00E+00	3.93E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
2562	458256.3	3768014	1.304E-08	6.69E-10	0.00E+00	1.37E-08	1.30E-08	6.69E-10	0.00E+00	1.37E-08	3.91E-09	1.20E-10	0.00E+00	4.03E-09	1.48E-09	3.88E-11	0.00E+00	1.52E-09
2563	458133.3	3767630	5.321E-09	2.73E-10	0.00E+00	5.59E-09	5.32E-09	2.73E-10	0.00E+00	5.59E-09	1.59E-09	4.90E-11	0.00E+00	1.64E-09	6.04E-10	1.58E-11	0.00E+00	6.19E-10
2564	458137.2	3767639	5.362E-09	2.75E-10	0.00E+00	5.64E-09	5.36E-09	2.75E-10	0.00E+00	5.64E-09	1.61E-09	4.94E-11	0.00E+00	1.66E-09	6.08E-10	1.60E-11	0.00E+00	6.24E-10
2565	458141	3767648	5.407E-09	2.77E-10	0.00E+00	5.68E-09	5.41E-09	2.77E-10	0.00E+00	5.68E-09	1.62E-09	4.98E-11	0.00E+00	1.67E-09	6.13E-10	1.61E-11	0.00E+00	6.30E-10
2566	458144.9	3767657	5.456E-09	2.80E-10	0.00E+00	5.74E-09	5.46E-09	2.80E-10	0.00E+00	5.74E-09	1.63E-09	5.03E-11	0.00E+00	1.68E-09	6.19E-10	1.62E-11	0.00E+00	6.35E-10
2567	458148.8	3767666	5.508E-09	2.82E-10	0.00E+00	5.79E-09	5.51E-09	2.82E-10	0.00E+00	5.79E-09	1.65E-09	5.08E-11	0.00E+00	1.70E-09	6.25E-10	1.64E-11	0.00E+00	6.41E-10
2568	458152.7	3767676	5.563E-09	2.85E-10	0.00E+00	5.85E-09	5.56E-09	2.85E-10	0.00E+00	5.85E-09	1.67E-09	5.13E-11	0.00E+00	1.72E-09	6.31E-10	1.66E-11	0.00E+00	6.48E-10
2569	458156.6	3767685	5.623E-09	2.88E-10	0.00E+00	5.91E-09	5.62E-09	2.88E-10	0.00E+00	5.91E-09	1.68E-09	5.18E-11	0.00E+00	1.74E-09	6.38E-10	1.67E-11	0.00E+00	6.55E-10
2570	458160.5	3767694	5.686E-09	2.91E-10	0.00E+00	5.98E-09	5.69E-09	2.91E-10	0.00E+00	5.98E-09	1.70E-09	5.24E-11	0.00E+00	1.76E-09	6.45E-10	1.69E-11	0.00E+00	6.62E-10
2571	458164.3	3767703	5.753E-09	2.95E-10	0.00E+00	6.05E-09	5.75E-09	2.95E-10	0.00E+00	6.05E-09	1.72E-09	5.30E-11	0.00E+00	1.78E-09	6.53E-10	1.71E-11	0.00E+00	6.70E-10
2572	458168.2	3767712	5.824E-09	2.99E-10	0.00E+00	6.12E-09	5.82E-09	2.99E-10	0.00E+00	6.12E-09	1.74E-09	5.37E-11	0.00E+00	1.80E-09	6.61E-10	1.73E-11	0.00E+00	6.78E-10
2573	458172.1	3767721	5.902E-09	3.03E-10	0.00E+00	6.20E-09	5.90E-09	3.03E-10	0.00E+00	6.20E-09	1.77E-09	5.44E-11	0.00E+00	1.82E-09	6.70E-10	1.76E-11	0.00E+00	6.87E-10

2574	458176	3767730	5.985E-09	3.07E-10	0.00E+00	6.29E-09	5.99E-09	3.07E-10	0.00E+00	6.29E-09	1.79E-09	5.52E-11	0.00E+00	1.85E-09	6.79E-10	1.78E-11	0.00E+00	6.97E-10
2575	458179.9	3767740	6.074E-09	3.11E-10	0.00E+00	6.39E-09	6.07E-09	3.11E-10	0.00E+00	6.39E-09	1.82E-09	5.60E-11	0.00E+00	1.88E-09	6.89E-10	1.81E-11	0.00E+00	7.07E-10
2576	458183.7	3767749	6.169E-09	3.16E-10	0.00E+00	6.48E-09	6.17E-09	3.16E-10	0.00E+00	6.48E-09	1.85E-09	5.69E-11	0.00E+00	1.90E-09	7.00E-10	1.84E-11	0.00E+00	7.18E-10
2577	458187.6	3767758	6.269E-09	3.21E-10	0.00E+00	6.59E-09	6.27E-09	3.21E-10	0.00E+00	6.59E-09	1.88E-09	5.78E-11	0.00E+00	1.94E-09	7.11E-10	1.87E-11	0.00E+00	7.30E-10
2578	458191.5	3767767	6.377E-09	3.27E-10	0.00E+00	6.70E-09	6.38E-09	3.27E-10	0.00E+00	6.70E-09	1.91E-09	5.88E-11	0.00E+00	1.97E-09	7.23E-10	1.90E-11	0.00E+00	7.42E-10
2579	458195.4	3767776	6.491E-09	3.33E-10	0.00E+00	6.82E-09	6.49E-09	3.33E-10	0.00E+00	6.82E-09	1.94E-09	5.98E-11	0.00E+00	2.00E-09	7.36E-10	1.93E-11	0.00E+00	7.56E-10
2580	458199.3	3767785	6.611E-09	3.39E-10	0.00E+00	6.95E-09	6.61E-09	3.39E-10	0.00E+00	6.95E-09	1.98E-09	6.09E-11	0.00E+00	2.04E-09	7.50E-10	1.97E-11	0.00E+00	7.70E-10
2581	458203.1	3767794	6.738E-09	3.45E-10	0.00E+00	7.08E-09	6.74E-09	3.45E-10	0.00E+00	7.08E-09	2.02E-09	6.21E-11	0.00E+00	2.08E-09	7.64E-10	2.00E-11	0.00E+00	7.84E-10
2582	458207	3767803	6.872E-09	3.52E-10	0.00E+00	7.22E-09	6.87E-09	3.52E-10	0.00E+00	7.22E-09	2.06E-09	6.33E-11	0.00E+00	2.12E-09	7.80E-10	2.04E-11	0.00E+00	8.00E-10
2583	458210.9	3767813	7.015E-09	3.60E-10	0.00E+00	7.37E-09	7.01E-09	3.60E-10	0.00E+00	7.37E-09	2.10E-09	6.47E-11	0.00E+00	2.17E-09	7.96E-10	2.09E-11	0.00E+00	8.17E-10
2584	458214.8	3767822	7.166E-09	3.67E-10	0.00E+00	7.53E-09	7.17E-09	3.67E-10	0.00E+00	7.53E-09	2.15E-09	6.61E-11	0.00E+00	2.21E-09	8.13E-10	2.13E-11	0.00E+00	8.34E-10
2585	458218.7	3767831	7.326E-09	3.76E-10	0.00E+00	7.70E-09	7.33E-09	3.76E-10	0.00E+00	7.70E-09	2.19E-09	6.75E-11	0.00E+00	2.26E-09	8.31E-10	2.18E-11	0.00E+00	8.53E-10
2586	458222.5	3767840	7.493E-09	3.84E-10	0.00E+00	7.88E-09	7.49E-09	3.84E-10	0.00E+00	7.88E-09	2.24E-09	6.91E-11	0.00E+00	2.31E-09	8.50E-10	2.23E-11	0.00E+00	8.72E-10
2587	458226.4	3767849	7.669E-09	3.93E-10	0.00E+00	8.06E-09	7.67E-09	3.93E-10	0.00E+00	8.06E-09	2.30E-09	7.07E-11	0.00E+00	2.37E-09	8.70E-10	2.28E-11	0.00E+00	8.93E-10
2588	458230.3	3767858	7.854E-09	4.03E-10	0.00E+00	8.26E-09	7.85E-09	4.03E-10	0.00E+00	8.26E-09	2.35E-09	7.24E-11	0.00E+00	2.42E-09	8.91E-10	2.34E-11	0.00E+00	9.14E-10
2589	458234.2	3767867	8.046E-09	4.12E-10	0.00E+00	8.46E-09	8.05E-09	4.12E-10	0.00E+00	8.46E-09	2.41E-09	7.42E-11	0.00E+00	2.48E-09	9.13E-10	2.39E-11	0.00E+00	9.37E-10
2590	458238.1	3767877	8.245E-09	4.23E-10	0.00E+00	8.67E-09	8.24E-09	4.23E-10	0.00E+00	8.67E-09	2.47E-09	7.60E-11	0.00E+00	2.55E-09	9.35E-10	2.45E-11	0.00E+00	9.60E-10
2591	458241.9	3767886	8.452E-09	4.33E-10	0.00E+00	8.88E-09	8.45E-09	4.33E-10	0.00E+00	8.88E-09	2.53E-09	7.79E-11	0.00E+00	2.61E-09	9.59E-10	2.52E-11	0.00E+00	9.84E-10
2592	458245.8	3767895	8.666E-09	4.44E-10	0.00E+00	9.11E-09	8.67E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
2593	458249.7	3767904	8.891E-09	4.56E-10	0.00E+00	9.35E-09	8.89E-09	4.56E-10	0.00E+00	9.35E-09	2.66E-09	8.20E-11	0.00E+00	2.74E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
2594	458253.6	3767913	9.124E-09	4.68E-10	0.00E+00	9.59E-09	9.12E-09	4.68E-10	0.00E+00	9.59E-09	2.73E-09	8.41E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
2595	458257.5	3767922	9.364E-09	4.80E-10	0.00E+00	9.84E-09	9.36E-09	4.80E-10	0.00E+00	9.84E-09	2.80E-09	8.63E-11	0.00E+00	2.89E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
2596	458261.3	3767931	9.612E-09	4.93E-10	0.00E+00	1.01E-08	9.61E-09	4.93E-10	0.00E+00	1.01E-08	2.88E-09	8.86E-11	0.00E+00	2.97E-09	1.09E-09	2.86E-11	0.00E+00	1.12E-09
2597	458265.2	3767940	9.866E-09	5.06E-10	0.00E+00	1.04E-08	9.87E-09	5.06E-10	0.00E+00	1.04E-08	2.95E-09	9.09E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
2598	458269.1	3767950	1.013E-08	5.19E-10	0.00E+00	1.06E-08	1.01E-08	5.19E-10	0.00E+00	1.06E-08	3.03E-09	9.33E-11	0.00E+00	3.13E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
2599	458273	3767959	1.039E-08	5.33E-10	0.00E+00	1.09E-08	1.04E-08	5.33E-10	0.00E+00	1.09E-08	3.11E-09	9.58E-11	0.00E+00	3.21E-09	1.18E-09	3.09E-11	0.00E+00	1.21E-09
2600	458276.9	3767968	1.066E-08	5.46E-10	0.00E+00	1.12E-08	1.07E-08	5.46E-10	0.00E+00	1.12E-08	3.19E-09	9.83E-11	0.00E+00	3.29E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
2601	458280.8	3767977	1.093E-08	5.60E-10	0.00E+00	1.15E-08	1.09E-08	5.60E-10	0.00E+00	1.15E-08	3.27E-09	1.01E-10	0.00E+00	3.37E-09	1.24E-09	3.25E-11	0.00E+00	1.27E-09
2602	458284.6	3767986	1.121E-08	5.75E-10	0.00E+00	1.18E-08	1.12E-08	5.75E-10	0.00E+00	1.18E-08	3.36E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.34E-11	0.00E+00	1.30E-09
2603	458288.5	3767995	1.149E-08	5.89E-10	0.00E+00	1.21E-08	1.15E-08	5.89E-10	0.00E+00	1.21E-08	3.44E-09	1.06E-10	0.00E+00	3.55E-09	1.30E-09	3.42E-11	0.00E+00	1.34E-09
2604	458292.4	3768004	1.178E-08	6.04E-10	0.00E+00	1.24E-08	1.18E-08	6.04E-10	0.00E+00	1.24E-08	3.53E-09	1.09E-10	0.00E+00	3.64E-09	1.34E-09	3.50E-11	0.00E+00	1.37E-09
2605	458296.3	3768013	1.206E-08	6.18E-10	0.00E+00	1.27E-08	1.21E-08	6.18E-10	0.00E+00	1.27E-08	3.61E-09	1.11E-10	0.00E+00	3.72E-09	1.37E-09	3.59E-11	0.00E+00	1.40E-09
2606	458169.2	3767620	4.939E-09	2.53E-10	0.00E+00	5.19E-09	4.94E-09	2.53E-10	0.00E+00	5.19E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.75E-10
2607	458173.1	3767629	4.979E-09	2.55E-10	0.00E+00	5.23E-09	4.98E-09	2.55E-10	0.00E+00	5.23E-09	1.49E-09	4.59E-11	0.00E+00	1.54E-09	5.65E-10	1.48E-11	0.00E+00	5.80E-10
2608	458176.9	3767638	5.022E-09	2.57E-10	0.00E+00	5.28E-09	5.02E-09	2.57E-10	0.00E+00	5.28E-09	1.50E-09	4.63E-11	0.00E+00	1.55E-09	5.70E-10	1.49E-11	0.00E+00	5.85E-10
2609	458180.8	3767647	5.068E-09	2.60E-10	0.00E+00	5.33E-09	5.07E-09	2.60E-10	0.00E+00	5.33E-09	1.52E-09	4.67E-11	0.00E+00	1.56E-09	5.75E-10	1.51E-11	0.00E+00	5.90E-10
2610	458184.7	3767656	5.117E-09	2.62E-10	0.00E+00	5.38E-09	5.12E-09	2.62E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.96E-10
2611	458188.6	3767666	5.169E-09	2.65E-10	0.00E+00	5.43E-09	5.17E-09	2.65E-10	0.00E+00	5.43E-09	1.55E-09	4.77E-11	0.00E+00	1.60E-09	5.86E-10	1.54E-11	0.00E+00	6.02E-10
2612	458192.5	3767675	5.225E-09	2.68E-10	0.00E+00	5.49E-09	5.23E-09	2.68E-10	0.00E+00	5.49E-09	1.57E-09	4.82E-11	0.00E+00	1.61E-09	5.93E-10	1.55E-11	0.00E+00	6.08E-10
2613	458196.4	3767684	5.285E-09	2.71E-10	0.00E+00	5.56E-09	5.28E-09	2.71E-10	0.00E+00	5.56E-09	1.58E-09	4.87E-11	0.00E+00	1.63E-09	6.00E-10	1.57E-11	0.00E+00	6.15E-10
2614	458200.3	3767693	5.348E-09	2.74E-10	0.00E+00	5.62E-09	5.35E-09	2.74E-10	0.00E+00	5.62E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.07E-10	1.59E-11	0.00E+00	6.23E-10
2615	458204.1	3767702	5.415E-09	2.78E-10	0.00E+00	5.69E-09	5.41E-09	2.78E-10	0.00E+00	5.69E-09	1.62E-09	4.99E-11	0.00E+00	1.67E-09	6.14E-10	1.61E-11	0.00E+00	6.30E-10
2616	458208	3767711	5.486E-09	2.81E-10	0.00E+00	5.77E-09	5.49E-09	2.81E-10	0.00E+00	5.77E-09	1.64E-09	5.06E-11	0.00E+00	1.69E-09	6.22E-10	1.63E-11	0.00E+00	6.39E-10
2617	458211.9	3767720	5.562E-09	2.85E-10	0.00E+00	5.85E-09	5.56E-09	2.85E-10	0.00E+00	5.85E-09	1.67E-09	5.13E-11	0.00E+00	1.72E-09	6.31E-10	1.66E-11	0.00E+00	6.48E-10
2618	458215.8	3767730	5.644E-09	2.89E-10	0.00E+00	5.93E-09	5.64E-09	2.89E-10	0.00E+00	5.93E-09	1.69E-09	5.20E-11	0.00E+00	1.74E-09	6.40E-10	1.68E-11	0.00E+00	6.57E-10
2619	458219.7	3767739	5.731E-09	2.94E-10	0.00E+00	6.03E-09	5.73E-09	2.94E-10	0.00E+00	6.03E-09	1.72E-09	5.28E-11	0.00E+00	1.77E-09	6.50E-10	1.71E-11	0.00E+00	6.67E-10
2620	458223.6	3767748	5.824E-09	2.99E-10	0.00E+00	6.12E-09	5.82E-09	2.99E-10	0.00E+00	6.12E-09	1.74E-09	5.37E-11	0.00E+00	1.80E-09	6.61E-10	1.73E-11	0.00E+00	6.78E-10
2621	458227.5	3767757	5.922E-09	3.04E-10	0.00E+00	6.23E-09	5.92E-09	3.04E-10	0.00E+00	6.23E-09	1.77E-09	5.46E-11	0.00E+00	1.83E-09	6.72E-10	1.76E-11	0.00E+00	6.89E-10
2622	458231.3	3767766	6.025E-09	3.09E-10	0.00E+00	6.33E-09	6.03E-09	3.09E-10	0.00E+00	6.33E-09	1.80E-09	5.55E-11	0.00E+00	1.86E-09	6.84E-10	1.79E-11	0.00E+00	7.02E-10
2623	458235.2	3767775	6.135E-09	3.14E-10	0.00E+00	6.45E-09	6.13E-09	3.14E-10	0.00E+00	6.45E-09	1.84E-09	5.65E-11	0.00E+00	1.89E-09	6.96E-10	1.83E-11	0.00E+00	7.14E-10
2624	458239.1	3767784	6.249E-09	3.20E-10	0.00E+00	6.57E-09	6.25E-09	3.20E-10	0.00E+00	6.57E-09	1.87E-09	5.76E-11	0.00E+00	1.93E-09	7.09E-10	1.86E-11	0.00E+00	7.28E-10
2625	458243	3767794	6.371E-09	3.27E-10	0.00E+00	6.70E-09	6.37E-09	3.27E-10	0.00E+00	6.70E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.23E-10	1.90E-11	0.00E+00	7.42E-10
2626	458246.9	3767803	6.499E-09	3.33E-10	0.00E+00	6.83E-09	6.50E-09	3.33E-10	0.00E+00	6.83E-09	1.95E-09	5.99E-11	0.00E+00	2.01E-09	7.37E-10	1.93E-11	0.00E+00	7.57E-10
2627	458250.8	3767812	6.634E-09	3.40E-10	0.00E+00	6.97E-09	6.63E-09	3.40E-10	0.00E+00	6.97E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.97E-11	0.00E+00	7.72E-10
2628	458254.7	3767821	6.777E-09	3.47E-10	0.00E+00	7.12E-09	6.78E-09	3.47E-10	0.00E+00	7.12E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.69E-10	2.02E-11	0.00E+00	7.89E-10
2629	458258.5	3767830	6.926E-09	3.55E-10	0.00E+00	7.28E-09	6.93E-09	3.55E-10	0.00E+00	7.28E-09	2.07E-09	6.38E-11	0.00E+00	2.14E-09	7.86E-10	2.06E-11	0.00E+00	8.06E-10
2630	458262.4	3767839	7.083E-09	3.63E-10	0.00E+00	7.45E-09	7.08E-09	3.63E-10	0.00E+00	7.45E-09	2.12E-09	6.53E-11	0.00E+00	2.19E-09	8.04E-10	2.11E-11	0.00E+00	8.25E-10
2631	458266.3	3767848	7.246E-09	3.71E-10	0.00E+00	7.62E-09	7.25E-09	3.71E-10	0.00E+00	7.62E-09	2.17E-09	6.68E-11	0.00E+00	2.24E-09	8.22E-10	2.16E-11	0.00E+00	8.44E-10
2632	458270.2	3767858	7.416E-09	3.80E-10	0.00E+00	7.80E-09	7.42E-09	3.80E-10	0.00E+00	7.80E-09	2.22E-09	6.84E-11	0.00E+00	2.29E-09	8.41E-10	2.21E-11	0.00E+00	8.63E-10
2633	458274.1	3767867	7.592E-09	3.89E-10	0.00E+00	7.98E-09	7.59E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	7.00E-11	0.00E+00	2.34E-09	8.61E-10	2.26E-11	0.00E+00	8.84E-10
2634	458278	3767876	7.775E-09	3.99E-10	0.00E+00	8.17E-09	7.77E-09	3.99E-10	0.00E+00	8.17E-09	2.33E-09	7.17E-11	0.00E+00	2.40E-09	8.82E-10	2.31E-11	0.00E+00	9.05E-10
2635	458281.9	3767885	7.965E-09	4.08E-10	0.00E+00	8.37E-09	7.96E-09	4.08E-10	0.00E+00	8.37E-09	2.39E-09	7.34E-11	0.00E+00	2.46E-09	9.04E-10	2.37E-11	0.00E+00	9.27E-10
2636	458285.7	3767894	8.162E-09	4.18E-10	0.00E+00	8.58E-09	8.16E-09	4.18E-10	0.00E+00	8.58E-09	2.44E-09	7.52E-11	0.00E+00	2.52E-09	9.26E-10	2.43E-11	0.00E+00	9.50E-10
2637	458289.6	3767903	8.367E-09	4.29E-10	0.00E+00	8.80E-09	8.37E-09	4.29E-10	0.00E+00	8.80E-09	2.51E-09	7.71E-11	0.00E+00	2.58E-09	9.49E-10	2.49E-11	0.00E+00	9.74E-10
2638	458293.5	3767912	8.577E-09	4.40E-10	0.00E+00	9.02E-09	8.58E-09	4.40E-10	0.00E+00	9.02E-09	2.57E-09	7.91E-11	0.00E+00	2.65E-09	9.73E-10	2.55E-11	0.00E+00	9.99E-10
2639	458297.4	3767922	8.794E-09	4.51E-10	0.00E+00	9.25E-09	8.79E-09	4.51E-10	0.00E+00	9.25E-09	2.63E-09	8.11E-11	0.00E+00	2.72E-09	9.98E-10	2.62E-11	0.00E+00	1.02E-09
2640	458301.3	3767931	9.017E-09	4.62E-10	0.00E+00	9.48E-09	9.02E-09	4.62E-10	0.00E+00	9.48E-09	2.70E-09	8.31E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
2641	458305.2	3767940	9.243E-09	4.74E-10	0.00E+00	9.72E-09	9.24E-09	4.74E-10	0.00E+00	9.72E-09	2.77E-09	8.52E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.08E-09
2642	458309.1	3767949	9.473E-09	4.86E-10	0.00E+00	9.96E-09	9.47E-09	4.86E-10	0.00E+00	9.96E-09	2.84E-09	8.73E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
2643	458313	3767958	9.708E-09	4.98E-10	0.00E+00	1.02E-08	9.71E-09	4.98E-10	0.00E+00	1.02E-08	2.91E-09	8.95E-11	0.00E+00	3.00E-09	1.10E-09	2.89E-11	0.00E+00	1.13E-09
2644	458316.8	3767967	9.948E-09	5.10E-10	0.00E+00	1.05E-08	9.95E-09	5.10E-10	0.00E+00	1.05E-08	2.98E-09	9.17E-11	0.00E+00	3.07E-09	1.13E-09	2.96E-11	0.00E+00	1.16E-09
2645	458320.7	3767976	1.019E-08	5.23E-10	0.00E+00	1.07E-08	1.02E-08	5.23E-10	0.00E+00	1.07E-08	3.05E-09	9.40E-11	0.00E+00	3.15E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
2646	458324.6	3767986	1.044E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.13E-09	9.62E-11	0.00E+00	3.22E-09	1.18E-09	3.11E-11	0.00E+00	1.22E-09
2647	458328.5	3767995	1.069E-08	5.48E-10	0.00E+00	1.12E-08	1.07E-08	5.48E-10	0.00E+00	1.12E-08	3.20E-09	9.86E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.24E-09
2648	458332.4	3768004	1.094E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.27E-09
2649	458336.3	3768013	1.12E-08	5.74E-10	0.00E+00	1.18E-08	1.12E-08	5.74E-10	0.00E+00	1.18E-08	3.35E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.33E-11	0.00E+00	1.30E-09
2650	458209	3767619	4.642E-09	2.38E-10	0.00E+00	4.88E-09	4.64E-09	2.38E-10	0.00E+00	4.88E-09	1.39E-09	4.28E-11	0.00E+00	1.43E-09	5.27E-10	1.38E-11	0.00E+00	5.40E-10
2651	458212.9	3767628	4.683E-09	2.40E-10	0.00E+00	4.92E-09	4.68E-09	2.40E-10	0.00E+00	4.92E-09	1.40E-09	4.32E-11	0.00E+00	1.45E-09	5.31E-10	1.39E-11	0.00E+00	5.45E-10
2652	458216.7	3767637	4.726E-09	2.42E-10	0.00E+00	4.97E-09	4.73E-09	2.42E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.36E-10	1.41E-11	0.00E+00	5.50E-10
2653	458220.6	3767646	4.772E-09	2.45E-10	0.00E+00	5.02E-09	4.77E-09	2.45E-10	0.00E+00	5.02E-09	1.43E-09	4.40E-11	0.00E+00	1.47E-09	5.41E-10	1.42E-11	0.00E+00	5.56E-10
2654	458224.5	3767655	4.821E-09	2.47E-10	0.00E+00	5.07E-09	4.82E-09	2.47E-10	0.00E+00	5.07E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.47E-10	1.43E-11	0.00E+00	5.61E-10
2655	458228.4	3767665	4.874E-09	2.50E-10	0.00E+00	5.12E-09	4.87E-09	2.50E-10	0.00E+00	5.12E-09	1.46E-09	4.49E-11	0.00E+00	1.50E-09	5.53E-10	1.45E-11	0.00E+00	5.67E-10
2656	458232.3	3767674	4.93E-09	2.53E-10	0.00E+00	5.18E-09	4.93E-09	2.53E-10	0.00E+00	5.18E-09	1.48E-09	4.54E-11	0.00E+00	1.52E-09	5.59E-10	1.47E-11	0.00E+00	5.74E-10
2657	458236.2	3767683	4.989E-09	2.56E-10	0.00E+00	5.24E-09	4.99E-09	2.56E-10	0.00E+00	5.24E-09	1.49E-09	4.60E-11	0.00E+00	1.54E-09	5.66E-10	1.48E-11	0.00E+00	5.81E-10
2658	458240.1	3767692	5.051E-09	2.59E-10	0.00E+00	5.31E-09	5.05E-09	2.59E-10	0.00E+00	5.31E-09	1.51E-09	4.66E-11	0.00E+00	1.56E-09	5.73E-10	1.50E-11	0.00E+00	5.88E-10
2659	458244	3767701	5.117E-09	2.62E-10	0.00E+00	5.38E-09	5.12E-09	2.62E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.96E-10
2660	458247.9	3767710	5.188E-09	2.66E-10	0.00E+00	5.45E-09	5.19E-09	2.66E-10	0.00E+00	5.45E-09	1.55E-09	4.78E-11	0.00E+00	1.60E-09	5.89E-10	1.54E-11	0.00E+00	6.04E-10
2661	458251.8	3767720	5.263E-09	2.70E-10	0.00E+00	5.53E-09	5.26E-09	2.70E-10	0.00E+00	5.53E-09	1.58E-09	4.85E-11	0.00E+00	1.62E-09	5.97E-10	1.57E-11	0.00E+00	6.13E-10
2662	458255.7	3767729	5.343E-09	2.74E-10	0.00E+00	5.62E-09	5.34E-09	2.74E-10	0.00E+00	5.62E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.06E-10	1.59E-11	0.00E+00	6.22E-10
2663	458259.5	3767738	5.428E-09	2.78E-10	0.00E+00	5.71E-09	5.43E-09	2.78E-10	0.00E+00	5.71E-09	1.63E-09	5.00E-11	0.00E+00	1.68E-09	6.16E-10	1.62E-11	0.00E+00	6.32E-10
2664	458263.4	3767747	5.518E-09	2.83E-10	0.00E+00	5.80E-09	5.52E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.09E-11	0.00E+00	1.70E-09	6.26E-10	1.64E-11	0.00E+00	6.42E-10
2665	458267.3	3767756	5.611E-09	2.88E-10	0.00E+00	5.90E-09	5.61E-09	2.88E-10	0.00E+00	5.90E-09	1.68E-09	5.17E-11	0.00E+00	1.73E-09	6.37E-10	1.67E-11	0.00E+00	6.53E-10
2666	458271.2	3767765	5.71E-09	2.93E-10	0.00E+00	6.00E-09	5.71E-09	2.93E-10	0.00E+00	6.00E-09	1.71E-09	5.26E-11	0.00E+00	1.76E-09	6.48E-10	1.70E-11	0.00E+00	6.65E-10
2667	458275.1	3767774	5.814E-09	2.98E-10	0.00E+00	6.11E-09	5.81E-09	2.98E-10	0.00E+00	6.11E-09	1.74E-09	5.36E-11	0.00E+00	1.80E-09	6.60E-10	1.73E-11	0.00E+00	6.77E-10
2668	458279	3767784	5.925E-09	3.04E-10	0.00E+00	6.23E-09	5.92E-09	3.04E-10	0.00E+00	6.23E-09	1.77E-09	5.46E-11	0.00E+00	1.83E-09	6.72E-10	1.76E-11	0.00E+00	6.90E-10
2669	458282.9	3767793	6.041E-09	3.10E-10	0.00E+00	6.35E-09	6.04E-09	3.10E-10	0.00E+00	6.35E-09	1.81E-09	5.57E-11	0.00E+00	1.87E-09	6.85E-10	1.80E-11	0.00E+00	7.03E-10
2670	458286.8	3767802	6.163E-09	3.16E-10	0.00E+00	6.48E-09	6.16E-09	3.16E-10	0.00E+00	6.48E-09	1.85E-09	5.68E-11	0.00E+00	1.90E-09	6.99E-10	1.83E-11	0.00E+00	7.18E-10
2671	458290.7	3767811	6.291E-09	3.23E-10	0.00E+00	6.61E-09	6.29E-09	3.23E-10	0.00E+00	6.61E-09	1.88E-09	5.80E-11	0.00E+00	1.94E-09	7.14E-10	1.87E-11	0.00E+00	7.32E-10
2672	458294.6	3767820	6.425E-09	3.29E-10	0.00E+00	6.75E-09	6.43E-09	3.29E-10	0.00E+00	6.75E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
2673	458298.4	3767829	6.565E-09	3.37E-10	0.00E+00	6.90E-09	6.57E-09	3.37E-10	0.00E+00	6.90E-09	1.97E-09	6.05E-11	0.00E+00	2.03E-09	7.45E-10	1.95E-11	0.00E+00	7.64E-10
2674	458302.3	3767839	6.711E-09	3.44E-10	0.00E+00	7.05E-09	6.71E-09	3.44E-10	0.00E+00	7.05E-09	2.01E-09	6.19E-11	0.00E+00	2.07E-09	7.61E-10	2.00E-11	0.00E+00	7.81E-10
2675	458306.2	3767848	6.861E-09	3.52E-10	0.00E+00	7.21E-09	6.86E-09	3.52E-10	0.00E+00	7.21E-09	2.06E-09	6.32E-11	0.00E+00	2.12E-09	7.78E-10	2.04E-11	0.00E+00	7.99E-10
2676	458310.1	3767857	7.017E-09	3.60E-10	0.00E+00	7.38E-09	7.02E-09	3.60E-10	0.00E+00	7.38E-09	2.10E-09	6.47E-11	0.00E+00	2.17E-09	7.96E-10	2.09E-11	0.00E+00	8.17E-10
2677	458314	3767866	7.179E-09	3.68E-10	0.00E+00	7.55E-09	7.18E-09	3.68E-10	0.00E+00	7.55E-09	2.15E-09	6.62E-11	0.00E+00	2.22E-09	8.15E-10	2.14E-11	0.00E+00	8.36E-10
2678	458317.9	3767875	7.349E-09	3.77E-10	0.00E+00	7.73E-09	7.35E-09	3.77E-10	0.00E+00	7.73E-09	2.20E-09	6.77E-11	0.00E+00	2.27E-09	8.34E-10	2.19E-11	0.00E+00	8.56E-10
2679	458321.8	3767884	7.524E-09	3.86E-10	0.00E+00	7.91E-09	7.52E-09	3.86E-10	0.00E+00	7.91E-09	2.25E-09	6.94E-11	0.00E+00	2.32E-09	8.54E-10	2.24E-11	0.00E+00	8.76E-10
2680	458325.7	3767894	7.705E-09	3.95E-10	0.00E+00	8.10E-09	7.70E-09	3.95E-10	0.00E+00	8.10E-09	2.31E-09	7.10E-11	0.00E+00	2.38E-09	8.74E-10	2.29E-11	0.00E+00	8.97E-10
2681	458329.6	3767903	7.891E-09	4.05E-10	0.00E+00	8.30E-09	7.89E-09	4.05E-10	0.00E+00	8.30E-09	2.36E-09	7.27E-11	0.00E+00	2.44E-09	8.95E-10	2.35E-11	0.00E+00	9.19E-10
2682	458333.5	3767912	8.082E-09	4.14E-10	0.00E+00	8.50E-09	8.08E-09	4.14E-10	0.00E+00	8.50E-09	2.42E-09	7.45E-11	0.00E+00	2.50E-09	9.17E-10	2.41E-11	0.00E+00	9.41E-10
2683	458337.4	3767921	8.278E-09	4.24E-10	0.00E+00	8.70E-09	8.28E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.56E-09	9.39E-10	2.46E-11	0.00E+00	9.64E-10
2684	458341.2	3767930	8.478E-09	4.35E-10	0.00E+00	8.91E-09	8.48E-09	4.35E-10	0.00E+00	8.91E-09	2.54E-09	7.82E-11	0.00E+00	2.62E-09	9.62E-10	2.52E-11	0.00E+00	9.87E-10
2685	458345.1	3767939	8.681E-09	4.45E-10	0.00E+00	9.13E-09	8.68E-09	4.45E-10	0.00E+00	9.13E-09	2.60E-09	8.00E-11	0.00E+00	2.68E-09	9.85E-10	2.58E-11	0.00E+00	1.01E-09

2686	458349	3767948	8.888E-09	4.56E-10	0.00E+00	9.34E-09	8.89E-09	4.56E-10	0.00E+00	9.34E-09	2.66E-09	8.19E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
2687	458352.9	3767958	9.098E-09	4.66E-10	0.00E+00	9.56E-09	9.10E-09	4.66E-10	0.00E+00	9.56E-09	2.73E-09	8.39E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
2688	458356.8	3767967	9.314E-09	4.78E-10	0.00E+00	9.79E-09	9.31E-09	4.78E-10	0.00E+00	9.79E-09	2.79E-09	8.59E-11	0.00E+00	2.88E-09	1.06E-09	2.77E-11	0.00E+00	1.08E-09
2689	458360.7	3767976	9.533E-09	4.89E-10	0.00E+00	1.00E-08	9.53E-09	4.89E-10	0.00E+00	1.00E-08	2.86E-09	8.79E-11	0.00E+00	2.94E-09	1.08E-09	2.84E-11	0.00E+00	1.11E-09
2690	458364.6	3767985	9.754E-09	5.00E-10	0.00E+00	1.03E-08	9.75E-09	5.00E-10	0.00E+00	1.03E-08	2.92E-09	8.99E-11	0.00E+00	3.01E-09	1.11E-09	2.90E-11	0.00E+00	1.14E-09
2691	458368.5	3767994	9.977E-09	5.11E-10	0.00E+00	1.05E-08	9.98E-09	5.11E-10	0.00E+00	1.05E-08	2.99E-09	9.20E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
2692	458372.4	3768003	1.02E-08	5.23E-10	0.00E+00	1.07E-08	1.02E-08	5.23E-10	0.00E+00	1.07E-08	3.06E-09	9.40E-11	0.00E+00	3.15E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
2693	458376.3	3768013	1.043E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.12E-09	9.61E-11	0.00E+00	3.22E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
2694	458248	3767616	4.373E-09	2.24E-10	0.00E+00	4.60E-09	4.37E-09	2.24E-10	0.00E+00	4.60E-09	1.31E-09	4.03E-11	0.00E+00	1.35E-09	4.96E-10	1.30E-11	0.00E+00	5.09E-10
2695	458251.8	3767625	4.413E-09	2.26E-10	0.00E+00	4.64E-09	4.41E-09	2.26E-10	0.00E+00	4.64E-09	1.32E-09	4.07E-11	0.00E+00	1.36E-09	5.01E-10	1.31E-11	0.00E+00	5.14E-10
2696	458255.7	3767634	4.455E-09	2.28E-10	0.00E+00	4.68E-09	4.46E-09	2.28E-10	0.00E+00	4.68E-09	1.33E-09	4.11E-11	0.00E+00	1.38E-09	5.05E-10	1.33E-11	0.00E+00	5.19E-10
2697	458259.5	3767643	4.5E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.11E-10	1.34E-11	0.00E+00	5.24E-10
2698	458263.3	3767652	4.548E-09	2.33E-10	0.00E+00	4.78E-09	4.55E-09	2.33E-10	0.00E+00	4.78E-09	1.36E-09	4.19E-11	0.00E+00	1.40E-09	5.16E-10	1.35E-11	0.00E+00	5.29E-10
2699	458267.1	3767661	4.598E-09	2.36E-10	0.00E+00	4.83E-09	4.60E-09	2.36E-10	0.00E+00	4.83E-09	1.38E-09	4.24E-11	0.00E+00	1.42E-09	5.22E-10	1.37E-11	0.00E+00	5.35E-10
2700	458271	3767670	4.65E-09	2.38E-10	0.00E+00	4.89E-09	4.65E-09	2.38E-10	0.00E+00	4.89E-09	1.39E-09	4.29E-11	0.00E+00	1.44E-09	5.28E-10	1.38E-11	0.00E+00	5.41E-10
2701	458274.8	3767679	4.707E-09	2.41E-10	0.00E+00	4.95E-09	4.71E-09	2.41E-10	0.00E+00	4.95E-09	1.41E-09	4.34E-11	0.00E+00	1.45E-09	5.34E-10	1.40E-11	0.00E+00	5.48E-10
2702	458278.6	3767688	4.766E-09	2.44E-10	0.00E+00	5.01E-09	4.77E-09	2.44E-10	0.00E+00	5.01E-09	1.43E-09	4.39E-11	0.00E+00	1.47E-09	5.41E-10	1.42E-11	0.00E+00	5.55E-10
2703	458282.4	3767697	4.83E-09	2.48E-10	0.00E+00	5.08E-09	4.83E-09	2.48E-10	0.00E+00	5.08E-09	1.45E-09	4.45E-11	0.00E+00	1.49E-09	5.48E-10	1.44E-11	0.00E+00	5.62E-10
2704	458286.3	3767706	4.897E-09	2.51E-10	0.00E+00	5.15E-09	4.90E-09	2.51E-10	0.00E+00	5.15E-09	1.47E-09	4.51E-11	0.00E+00	1.51E-09	5.56E-10	1.46E-11	0.00E+00	5.70E-10
2705	458290.1	3767715	4.968E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.64E-10	1.48E-11	0.00E+00	5.78E-10
2706	458293.9	3767724	5.043E-09	2.59E-10	0.00E+00	5.30E-09	5.04E-09	2.59E-10	0.00E+00	5.30E-09	1.51E-09	4.65E-11	0.00E+00	1.56E-09	5.72E-10	1.50E-11	0.00E+00	5.87E-10
2707	458297.7	3767733	5.122E-09	2.63E-10	0.00E+00	5.38E-09	5.12E-09	2.63E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.96E-10
2708	458301.6	3767742	5.205E-09	2.67E-10	0.00E+00	5.47E-09	5.21E-09	2.67E-10	0.00E+00	5.47E-09	1.56E-09	4.80E-11	0.00E+00	1.61E-09	5.91E-10	1.55E-11	0.00E+00	6.06E-10
2709	458305.4	3767751	5.292E-09	2.71E-10	0.00E+00	5.56E-09	5.29E-09	2.71E-10	0.00E+00	5.56E-09	1.59E-09	4.88E-11	0.00E+00	1.63E-09	6.00E-10	1.57E-11	0.00E+00	6.16E-10
2710	458309.2	3767760	5.383E-09	2.76E-10	0.00E+00	5.66E-09	5.38E-09	2.76E-10	0.00E+00	5.66E-09	1.61E-09	4.96E-11	0.00E+00	1.66E-09	6.11E-10	1.60E-11	0.00E+00	6.27E-10
2711	458313	3767769	5.478E-09	2.81E-10	0.00E+00	5.76E-09	5.48E-09	2.81E-10	0.00E+00	5.76E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.22E-10	1.63E-11	0.00E+00	6.38E-10
2712	458316.9	3767778	5.579E-09	2.86E-10	0.00E+00	5.86E-09	5.58E-09	2.86E-10	0.00E+00	5.86E-09	1.67E-09	5.14E-11	0.00E+00	1.72E-09	6.33E-10	1.66E-11	0.00E+00	6.50E-10
2713	458320.7	3767787	5.684E-09	2.91E-10	0.00E+00	5.98E-09	5.68E-09	2.91E-10	0.00E+00	5.98E-09	1.70E-09	5.24E-11	0.00E+00	1.75E-09	6.45E-10	1.69E-11	0.00E+00	6.62E-10
2714	458324.5	3767796	5.795E-09	2.97E-10	0.00E+00	6.09E-09	5.79E-09	2.97E-10	0.00E+00	6.09E-09	1.74E-09	5.34E-11	0.00E+00	1.79E-09	6.57E-10	1.72E-11	0.00E+00	6.75E-10
2715	458328.3	3767805	5.91E-09	3.03E-10	0.00E+00	6.21E-09	5.91E-09	3.03E-10	0.00E+00	6.21E-09	1.77E-09	5.45E-11	0.00E+00	1.82E-09	6.71E-10	1.76E-11	0.00E+00	6.88E-10
2716	458332.2	3767814	6.031E-09	3.09E-10	0.00E+00	6.34E-09	6.03E-09	3.09E-10	0.00E+00	6.34E-09	1.81E-09	5.56E-11	0.00E+00	1.86E-09	6.84E-10	1.79E-11	0.00E+00	7.02E-10
2717	458336	3767823	6.157E-09	3.16E-10	0.00E+00	6.47E-09	6.16E-09	3.16E-10	0.00E+00	6.47E-09	1.84E-09	5.68E-11	0.00E+00	1.90E-09	6.98E-10	1.83E-11	0.00E+00	7.17E-10
2718	458339.8	3767832	6.287E-09	3.22E-10	0.00E+00	6.61E-09	6.29E-09	3.22E-10	0.00E+00	6.61E-09	1.88E-09	5.80E-11	0.00E+00	1.94E-09	7.13E-10	1.87E-11	0.00E+00	7.32E-10
2719	458343.6	3767841	6.422E-09	3.29E-10	0.00E+00	6.75E-09	6.42E-09	3.29E-10	0.00E+00	6.75E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
2720	458347.5	3767850	6.56E-09	3.36E-10	0.00E+00	6.90E-09	6.56E-09	3.36E-10	0.00E+00	6.90E-09	1.96E-09	6.05E-11	0.00E+00	2.03E-09	7.44E-10	1.95E-11	0.00E+00	7.64E-10
2721	458351.3	3767859	6.704E-09	3.44E-10	0.00E+00	7.05E-09	6.70E-09	3.44E-10	0.00E+00	7.05E-09	2.01E-09	6.18E-11	0.00E+00	2.07E-09	7.61E-10	1.99E-11	0.00E+00	7.81E-10
2722	458355.1	3767868	6.852E-09	3.51E-10	0.00E+00	7.20E-09	6.85E-09	3.51E-10	0.00E+00	7.20E-09	2.05E-09	6.32E-11	0.00E+00	2.12E-09	7.77E-10	2.04E-11	0.00E+00	7.98E-10
2723	458358.9	3767877	7.007E-09	3.59E-10	0.00E+00	7.37E-09	7.01E-09	3.59E-10	0.00E+00	7.37E-09	2.10E-09	6.46E-11	0.00E+00	2.16E-09	7.95E-10	2.09E-11	0.00E+00	8.16E-10
2724	458362.8	3767886	7.166E-09	3.67E-10	0.00E+00	7.53E-09	7.17E-09	3.67E-10	0.00E+00	7.53E-09	2.15E-09	6.61E-11	0.00E+00	2.21E-09	8.13E-10	2.13E-11	0.00E+00	8.34E-10
2725	458366.6	3767895	7.329E-09	3.76E-10	0.00E+00	7.71E-09	7.33E-09	3.76E-10	0.00E+00	7.71E-09	2.20E-09	6.76E-11	0.00E+00	2.26E-09	8.32E-10	2.18E-11	0.00E+00	8.53E-10
2726	458370.4	3767904	7.497E-09	3.84E-10	0.00E+00	7.88E-09	7.50E-09	3.84E-10	0.00E+00	7.88E-09	2.25E-09	6.91E-11	0.00E+00	2.31E-09	8.51E-10	2.23E-11	0.00E+00	8.73E-10
2727	458374.2	3767913	7.669E-09	3.93E-10	0.00E+00	8.06E-09	7.67E-09	3.93E-10	0.00E+00	8.06E-09	2.30E-09	7.07E-11	0.00E+00	2.37E-09	8.70E-10	2.28E-11	0.00E+00	8.93E-10
2728	458378.1	3767922	7.844E-09	4.02E-10	0.00E+00	8.25E-09	7.84E-09	4.02E-10	0.00E+00	8.25E-09	2.35E-09	7.23E-11	0.00E+00	2.42E-09	8.90E-10	2.33E-11	0.00E+00	9.13E-10
2729	458381.9	3767931	8.022E-09	4.11E-10	0.00E+00	8.43E-09	8.02E-09	4.11E-10	0.00E+00	8.43E-09	2.40E-09	7.39E-11	0.00E+00	2.48E-09	9.10E-10	2.39E-11	0.00E+00	9.34E-10
2730	458385.7	3767940	8.202E-09	4.21E-10	0.00E+00	8.62E-09	8.20E-09	4.21E-10	0.00E+00	8.62E-09	2.46E-09	7.56E-11	0.00E+00	2.53E-09	9.31E-10	2.44E-11	0.00E+00	9.55E-10
2731	458389.5	3767949	8.386E-09	4.30E-10	0.00E+00	8.82E-09	8.39E-09	4.30E-10	0.00E+00	8.82E-09	2.51E-09	7.73E-11	0.00E+00	2.59E-09	9.51E-10	2.50E-11	0.00E+00	9.76E-10
2732	458393.4	3767958	8.573E-09	4.40E-10	0.00E+00	9.01E-09	8.57E-09	4.40E-10	0.00E+00	9.01E-09	2.57E-09	7.90E-11	0.00E+00	2.65E-09	9.73E-10	2.55E-11	0.00E+00	9.98E-10
2733	458397.2	3767967	8.764E-09	4.49E-10	0.00E+00	9.21E-09	8.76E-09	4.49E-10	0.00E+00	9.21E-09	2.62E-09	8.08E-11	0.00E+00	2.71E-09	9.94E-10	2.61E-11	0.00E+00	1.02E-09
2734	458401	3767976	8.956E-09	4.59E-10	0.00E+00	9.42E-09	8.96E-09	4.59E-10	0.00E+00	9.42E-09	2.68E-09	8.26E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
2735	458404.8	3767985	9.151E-09	4.69E-10	0.00E+00	9.62E-09	9.15E-09	4.69E-10	0.00E+00	9.62E-09	2.74E-09	8.44E-11	0.00E+00	2.83E-09	1.04E-09	2.72E-11	0.00E+00	1.07E-09
2736	458408.7	3767994	8.872E-09	4.55E-10	0.00E+00	9.33E-09	8.87E-09	4.55E-10	0.00E+00	9.33E-09	2.66E-09	8.18E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
2737	458412.5	3768003	9.05E-09	4.64E-10	0.00E+00	9.51E-09	9.05E-09	4.64E-10	0.00E+00	9.51E-09	2.71E-09	8.34E-11	0.00E+00	2.79E-09	1.03E-09	2.69E-11	0.00E+00	1.05E-09
2738	458416.3	3768012	9.232E-09	4.73E-10	0.00E+00	9.71E-09	9.23E-09	4.73E-10	0.00E+00	9.71E-09	2.77E-09	8.51E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.07E-09
2739	458287.7	3767615	4.139E-09	2.12E-10	0.00E+00	4.35E-09	4.14E-09	2.12E-10	0.00E+00	4.35E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.82E-10
2740	458291.5	3767624	4.179E-09	2.14E-10	0.00E+00	4.39E-09	4.18E-09	2.14E-10	0.00E+00	4.39E-09	1.25E-09	3.85E-11	0.00E+00	1.29E-09	4.74E-10	1.24E-11	0.00E+00	4.87E-10
2741	458295.4	3767633	4.221E-09	2.16E-10	0.00E+00	4.44E-09	4.22E-09	2.16E-10	0.00E+00	4.44E-09	1.26E-09	3.89E-11	0.00E+00	1.30E-09	4.79E-10	1.26E-11	0.00E+00	4.91E-10
2742	458299.2	3767642	4.266E-09	2.19E-10	0.00E+00	4.48E-09	4.27E-09	2.19E-10	0.00E+00	4.48E-09	1.28E-09	3.93E-11	0.00E+00	1.32E-09	4.84E-10	1.27E-11	0.00E+00	4.97E-10
2743	458303	3767651	4.314E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
2744	458306.8	3767660	4.364E-09	2.24E-10	0.00E+00	4.59E-09	4.36E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
2745	458310.7	3767669	4.416E-09	2.26E-10	0.00E+00	4.64E-09	4.42E-09	2.26E-10	0.00E+00	4.64E-09	1.32E-09	4.07E-11	0.00E+00	1.36E-09	5.01E-10	1.31E-11	0.00E+00	5.14E-10
2746	458314.5	3767678	4.472E-09	2.29E-10	0.00E+00	4.70E-09	4.47E-09	2.29E-10	0.00E+00	4.70E-09	1.34E-09	4.12E-11	0.00E+00	1.38E-09	5.07E-10	1.33E-11	0.00E+00	5.21E-10
2747	458318.3	3767687	4.531E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.18E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.28E-10
2748	458322.2	3767696	4.594E-09	2.36E-10	0.00E+00	4.83E-09	4.59E-09	2.36E-10	0.00E+00	4.83E-09	1.38E-09	4.23E-11	0.00E+00	1.42E-09	5.21E-10	1.37E-11	0.00E+00	5.35E-10
2749	458326	3767705	4.659E-09	2.39E-10	0.00E+00	4.90E-09	4.66E-09	2.39E-10	0.00E+00	4.90E-09	1.40E-09	4.29E-11	0.00E+00	1.44E-09	5.29E-10	1.39E-11	0.00E+00	5.42E-10
2750	458329.8	3767714	4.728E-09	2.42E-10	0.00E+00	4.97E-09	4.73E-09	2.42E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.36E-10	1.41E-11	0.00E+00	5.51E-10
2751	458333.7	3767723	4.801E-09	2.46E-10	0.00E+00	5.05E-09	4.80E-09	2.46E-10	0.00E+00	5.05E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.45E-10	1.43E-11	0.00E+00	5.59E-10
2752	458337.5	3767732	4.876E-09	2.50E-10	0.00E+00	5.13E-09	4.88E-09	2.50E-10	0.00E+00	5.13E-09	1.46E-09	4.50E-11	0.00E+00	1.51E-09	5.53E-10	1.45E-11	0.00E+00	5.68E-10
2753	458341.3	3767741	4.956E-09	2.54E-10	0.00E+00	5.21E-09	4.96E-09	2.54E-10	0.00E+00	5.21E-09	1.48E-09	4.57E-11	0.00E+00	1.53E-09	5.62E-10	1.47E-11	0.00E+00	5.77E-10
2754	458345.2	3767750	5.039E-09	2.58E-10	0.00E+00	5.30E-09	5.04E-09	2.58E-10	0.00E+00	5.30E-09	1.51E-09	4.64E-11	0.00E+00	1.56E-09	5.72E-10	1.50E-11	0.00E+00	5.87E-10
2755	458349	3767759	5.126E-09	2.63E-10	0.00E+00	5.39E-09	5.13E-09	2.63E-10	0.00E+00	5.39E-09	1.54E-09	4.73E-11	0.00E+00	1.58E-09	5.82E-10	1.53E-11	0.00E+00	5.97E-10
2756	458352.8	3767768	5.218E-09	2.68E-10	0.00E+00	5.49E-09	5.22E-09	2.68E-10	0.00E+00	5.49E-09	1.56E-09	4.81E-11	0.00E+00	1.61E-09	5.92E-10	1.55E-11	0.00E+00	6.08E-10
2757	458356.7	3767777	5.314E-09	2.72E-10	0.00E+00	5.59E-09	5.31E-09	2.72E-10	0.00E+00	5.59E-09	1.59E-09	4.90E-11	0.00E+00	1.64E-09	6.03E-10	1.58E-11	0.00E+00	6.19E-10
2758	458360.5	3767786	5.414E-09	2.78E-10	0.00E+00	5.69E-09	5.41E-09	2.78E-10	0.00E+00	5.69E-09	1.62E-09	4.99E-11	0.00E+00	1.67E-09	6.14E-10	1.61E-11	0.00E+00	6.30E-10
2759	458364.3	3767795	5.519E-09	2.83E-10	0.00E+00	5.80E-09	5.52E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.09E-11	0.00E+00	1.70E-09	6.26E-10	1.64E-11	0.00E+00	6.43E-10
2760	458368.2	3767804	5.628E-09	2.89E-10	0.00E+00	5.92E-09	5.63E-09	2.89E-10	0.00E+00	5.92E-09	1.69E-09	5.19E-11	0.00E+00	1.74E-09	6.38E-10	1.67E-11	0.00E+00	6.55E-10
2761	458372	3767813	5.74E-09	2.94E-10	0.00E+00	6.03E-09	5.74E-09	2.94E-10	0.00E+00	6.03E-09	1.72E-09	5.29E-11	0.00E+00	1.77E-09	6.51E-10	1.71E-11	0.00E+00	6.68E-10
2762	458375.8	3767822	5.856E-09	3.00E-10	0.00E+00	6.16E-09	5.86E-09	3.00E-10	0.00E+00	6.16E-09	1.75E-09	5.40E-11	0.00E+00	1.81E-09	6.64E-10	1.74E-11	0.00E+00	6.82E-10
2763	458379.7	3767831	5.976E-09	3.06E-10	0.00E+00	6.28E-09	5.98E-09	3.06E-10	0.00E+00	6.28E-09	1.79E-09	5.51E-11	0.00E+00	1.85E-09	6.78E-10	1.78E-11	0.00E+00	6.96E-10
2764	458383.5	3767840	6.102E-09	3.13E-10	0.00E+00	6.41E-09	6.10E-09	3.13E-10	0.00E+00	6.41E-09	1.83E-09	5.62E-11	0.00E+00	1.88E-09	6.92E-10	1.82E-11	0.00E+00	7.10E-10
2765	458387.3	3767849	6.232E-09	3.19E-10	0.00E+00	6.55E-09	6.23E-09	3.19E-10	0.00E+00	6.55E-09	1.87E-09	5.74E-11	0.00E+00	1.92E-09	7.07E-10	1.85E-11	0.00E+00	7.26E-10
2766	458391.2	3767858	6.366E-09	3.26E-10	0.00E+00	6.69E-09	6.37E-09	3.26E-10	0.00E+00	6.69E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.22E-10	1.89E-11	0.00E+00	7.41E-10
2767	458395	3767867	6.504E-09	3.33E-10	0.00E+00	6.84E-09	6.50E-09	3.33E-10	0.00E+00	6.84E-09	1.95E-09	6.00E-11	0.00E+00	2.01E-09	7.38E-10	1.94E-11	0.00E+00	7.57E-10
2768	458398.8	3767876	6.646E-09	3.41E-10	0.00E+00	6.99E-09	6.65E-09	3.41E-10	0.00E+00	6.99E-09	1.99E-09	6.13E-11	0.00E+00	2.05E-09	7.54E-10	1.98E-11	0.00E+00	7.74E-10
2769	458402.7	3767885	6.792E-09	3.48E-10	0.00E+00	7.14E-09	6.79E-09	3.48E-10	0.00E+00	7.14E-09	2.03E-09	6.26E-11	0.00E+00	2.10E-09	7.71E-10	2.02E-11	0.00E+00	7.91E-10
2770	458406.5	3767894	6.942E-09	3.56E-10	0.00E+00	7.30E-09	6.94E-09	3.56E-10	0.00E+00	7.30E-09	2.08E-09	6.40E-11	0.00E+00	2.14E-09	7.88E-10	2.07E-11	0.00E+00	8.08E-10
2771	458410.3	3767904	7.094E-09	3.64E-10	0.00E+00	7.46E-09	7.09E-09	3.64E-10	0.00E+00	7.46E-09	2.12E-09	6.54E-11	0.00E+00	2.19E-09	8.05E-10	2.11E-11	0.00E+00	8.26E-10
2772	458414.2	3767913	7.249E-09	3.72E-10	0.00E+00	7.62E-09	7.25E-09	3.72E-10	0.00E+00	7.62E-09	2.17E-09	6.68E-11	0.00E+00	2.24E-09	8.22E-10	2.16E-11	0.00E+00	8.44E-10
2773	458418	3767922	7.407E-09	3.80E-10	0.00E+00	7.79E-09	7.41E-09	3.80E-10	0.00E+00	7.79E-09	2.22E-09	6.83E-11	0.00E+00	2.29E-09	8.40E-10	2.20E-11	0.00E+00	8.62E-10
2774	458421.8	3767931	7.568E-09	3.88E-10	0.00E+00	7.96E-09	7.57E-09	3.88E-10	0.00E+00	7.96E-09	2.27E-09	6.98E-11	0.00E+00	2.34E-09	8.59E-10	2.25E-11	0.00E+00	8.81E-10
2775	458425.7	3767940	7.733E-09	3.96E-10	0.00E+00	8.13E-09	7.73E-09	3.96E-10	0.00E+00	8.13E-09	2.32E-09	7.13E-11	0.00E+00	2.39E-09	8.77E-10	2.30E-11	0.00E+00	9.00E-10
2776	458429.5	3767949	7.901E-09	4.05E-10	0.00E+00	8.31E-09	7.90E-09	4.05E-10	0.00E+00	8.31E-09	2.37E-09	7.28E-11	0.00E+00	2.44E-09	8.96E-10	2.35E-11	0.00E+00	9.20E-10
2777	458433.3	3767958	8.071E-09	4.14E-10	0.00E+00	8.48E-09	8.07E-09	4.14E-10	0.00E+00	8.48E-09	2.42E-09	7.44E-11	0.00E+00	2.49E-09	9.16E-10	2.40E-11	0.00E+00	9.40E-10
2778	458437.1	3767967	8.243E-09	4.23E-10	0.00E+00	8.67E-09	8.24E-09	4.23E-10	0.00E+00	8.67E-09	2.47E-09	7.60E-11	0.00E+00	2.54E-09	9.35E-10	2.45E-11	0.00E+00	9.60E-10
2779	458441	3767976	7.991E-09	4.10E-10	0.00E+00	8.40E-09	7.99E-09	4.10E-10	0.00E+00	8.40E-09	2.39E-09	7.37E-11	0.00E+00	2.47E-09	9.07E-10	2.38E-11	0.00E+00	9.30E-10
2780	458444.8	3767985	8.161E-09	4.18E-10	0.00E+00	8.58E-09	8.16E-09	4.18E-10	0.00E+00	8.58E-09	2.44E-09	7.52E-11	0.00E+00	2.52E-09	9.26E-10	2.43E-11	0.00E+00	9.50E-10
2781	458448.6	3767994	8.318E-09	4.26E-10	0.00E+00	8.74E-09	8.32E-09	4.26E-10	0.00E+00	8.74E-09	2.49E-09	7.67E-11	0.00E+00	2.57E-09	9.44E-10	2.48E-11	0.00E+00	9.68E-10
2782	458452.5	3768003	8.482E-09	4.35E-10	0.00E+00	8.92E-09	8.48E-09	4.35E-10	0.00E+00	8.92E-09	2.54E-09	7.82E-11	0.00E+00	2.62E-09	9.62E-10	2.52E-11	0.00E+00	9.88E-10
2783	458456.3	3768012	8.655E-09	4.44E-10	0.00E+00	9.10E-09	8.65E-09	4.44E-10	0.00E+00	9.10E-09	2.59E-09	7.98E-11	0.00E+00	2.67E-09	9.82E-10	2.58E-11	0.00E+00	1.01E-09
2784	458327.4	3767614	3.933E-09	2.02E-10	0.00E+00	4.13E-09	3.93E-09	2.02E-10	0.00E+00	4.13E-09	1.18E-09	3.63E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
2785	458331.2	3767623	3.973E-09	2.04E-10	0.00E+00	4.18E-09	3.97E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.66E-11	0.00E+00	1.23E-09	4.51E-10	1.18E-11	0.00E+00	4.63E-10
2786	458335.1	3767632	4.015E-09	2.06E-10	0.00E+00	4.22E-09	4.01E-09	2.06E-10	0.00E+00	4.22E-09	1.20E-09	3.70E-11	0.00E+00	1.24E-09	4.55E-10	1.19E-11	0.00E+00	4.67E-10
2787	458338.9	3767641	4.059E-09	2.08E-10	0.00E+00	4.27E-09	4.06E-09	2.08E-10	0.00E+00	4.27E-09	1.22E-09	3.74E-11	0.00E+00	1.25E-09	4.61E-10	1.21E-11	0.00E+00	4.73E-10
2788	458342.7	3767650	4.106E-09	2.11E-10	0.00E+00	4.32E-09	4.11E-09	2.11E-10	0.00E+00	4.32E-09	1.23E-09	3.78E-11	0.00E+00	1.27E-09	4.66E-10	1.22E-11	0.00E+00	4.78E-10
2789	458346.6	3767659	4.156E-09	2.13E-10	0.00E+00	4.37E-09	4.16E-09	2.13E-10	0.00E+00	4.37E-09	1.24E-09	3.83E-11	0.00E+00	1.28E-09	4.71E-10	1.24E-11	0.00E+00	4.84E-10
2790	458350.4	3767668	4.208E-09	2.16E-10	0.00E+00	4.42E-09	4.21E-09	2.16E-10	0.00E+00	4.42E-09	1.26E-09	3.88E-11	0.00E+00	1.30E-09	4.77E-10	1.25E-11	0.00E+00	4.90E-10
2791	458354.3	3767677	4.262E-09	2.19E-10	0.00E+00	4.48E-09	4.26E-09	2.19E-10	0.00E+00	4.48E-09	1.28E-09	3.93E-11	0.00E+00	1.32E-09	4.84E-10	1.27E-11	0.00E+00	4.96E-10
2792	458358.1	3767686	4.32E-09	2.21E-10	0.00E+00	4.54E-09	4.32E-09	2.21E-10	0.00E+00	4.54E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.90E-10	1.29E-11	0.00E+00	5.03E-10
2793	458361.9	3767695	4.381E-09	2.25E-10	0.00E+00	4.61E-09	4.38E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.04E-11	0.00E+00	1.35E-09	4.97E-10	1.30E-11	0.00E+00	5.10E-10
2794	458365.8	3767704	4.445E-09	2.28E-10	0.00E+00	4.67E-09	4.44E-09	2.28E-10	0.00E+00	4.67E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.04E-10	1.32E-11	0.00E+00	5.18E-10
2795	458369.6	3767713	4.512E-09	2.31E-10	0.00E+00	4.74E-09	4.51E-09	2.31E-10	0.00E+00	4.74E-09	1.35E-09	4.16E-11	0.00E+00	1.39E-09	5.12E-10	1.34E-11	0.00E+00	5.25E-10
2796	458373.5	3767722	4.581E-09	2.35E-10	0.00E+00	4.82E-09	4.58E-09	2.35E-10	0.00E+00	4.82E-09	1.37E-09	4.22E-11	0.00E+00	1.41E-09	5.20E-10	1.36E-11	0.00E+00	5.33E-10
2797	458377.3	3767731	4.654E-09	2.39E-10	0.00E+00	4.89E-09	4.65E-09	2.39E-10	0.00E+00	4.89E-09	1.39E-09	4.29E-11	0.00E+00	1.44E-09	5.28E-10	1.38E-11	0.00E+00	5.42E-10

2798	458381.1	3767740	4.73E-09	2.43E-10	0.00E+00	4.97E-09	4.73E-09	2.43E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.37E-10	1.41E-11	0.00E+00	5.51E-10
2799	458385	3767749	4.81E-09	2.47E-10	0.00E+00	5.06E-09	4.81E-09	2.47E-10	0.00E+00	5.06E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.46E-10	1.43E-11	0.00E+00	5.60E-10
2800	458388.8	3767758	4.894E-09	2.51E-10	0.00E+00	5.14E-09	4.89E-09	2.51E-10	0.00E+00	5.14E-09	1.47E-09	4.51E-11	0.00E+00	1.51E-09	5.55E-10	1.46E-11	0.00E+00	5.70E-10
2801	458392.7	3767767	4.981E-09	2.55E-10	0.00E+00	5.24E-09	4.98E-09	2.55E-10	0.00E+00	5.24E-09	1.49E-09	4.59E-11	0.00E+00	1.54E-09	5.65E-10	1.48E-11	0.00E+00	5.80E-10
2802	458396.5	3767776	5.073E-09	2.60E-10	0.00E+00	5.33E-09	5.07E-09	2.60E-10	0.00E+00	5.33E-09	1.52E-09	4.68E-11	0.00E+00	1.57E-09	5.75E-10	1.51E-11	0.00E+00	5.91E-10
2803	458400.3	3767785	5.168E-09	2.65E-10	0.00E+00	5.43E-09	5.17E-09	2.65E-10	0.00E+00	5.43E-09	1.55E-09	4.76E-11	0.00E+00	1.60E-09	5.86E-10	1.54E-11	0.00E+00	6.02E-10
2804	458404.2	3767794	5.266E-09	2.70E-10	0.00E+00	5.54E-09	5.27E-09	2.70E-10	0.00E+00	5.54E-09	1.58E-09	4.85E-11	0.00E+00	1.63E-09	5.97E-10	1.57E-11	0.00E+00	6.13E-10
2805	458408	3767803	5.369E-09	2.75E-10	0.00E+00	5.64E-09	5.37E-09	2.75E-10	0.00E+00	5.64E-09	1.61E-09	4.95E-11	0.00E+00	1.66E-09	6.09E-10	1.60E-11	0.00E+00	6.25E-10
2806	458411.8	3767813	5.474E-09	2.81E-10	0.00E+00	5.75E-09	5.47E-09	2.81E-10	0.00E+00	5.75E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.21E-10	1.63E-11	0.00E+00	6.37E-10
2807	458415.7	3767822	5.583E-09	2.86E-10	0.00E+00	5.87E-09	5.58E-09	2.86E-10	0.00E+00	5.87E-09	1.67E-09	5.15E-11	0.00E+00	1.72E-09	6.33E-10	1.66E-11	0.00E+00	6.50E-10
2808	458419.5	3767831	5.695E-09	2.92E-10	0.00E+00	5.99E-09	5.69E-09	2.92E-10	0.00E+00	5.99E-09	1.71E-09	5.25E-11	0.00E+00	1.76E-09	6.46E-10	1.69E-11	0.00E+00	6.63E-10
2809	458423.4	3767840	5.811E-09	2.98E-10	0.00E+00	6.11E-09	5.81E-09	2.98E-10	0.00E+00	6.11E-09	1.74E-09	5.36E-11	0.00E+00	1.79E-09	6.59E-10	1.73E-11	0.00E+00	6.77E-10
2810	458427.2	3767849	5.932E-09	3.04E-10	0.00E+00	6.24E-09	5.93E-09	3.04E-10	0.00E+00	6.24E-09	1.78E-09	5.47E-11	0.00E+00	1.83E-09	6.73E-10	1.77E-11	0.00E+00	6.91E-10
2811	458431	3767858	6.056E-09	3.10E-10	0.00E+00	6.37E-09	6.06E-09	3.10E-10	0.00E+00	6.37E-09	1.81E-09	5.58E-11	0.00E+00	1.87E-09	6.87E-10	1.80E-11	0.00E+00	7.05E-10
2812	458434.9	3767867	6.184E-09	3.17E-10	0.00E+00	6.50E-09	6.18E-09	3.17E-10	0.00E+00	6.50E-09	1.85E-09	5.70E-11	0.00E+00	1.91E-09	7.02E-10	1.84E-11	0.00E+00	7.20E-10
2813	458438.7	3767876	6.315E-09	3.24E-10	0.00E+00	6.64E-09	6.31E-09	3.24E-10	0.00E+00	6.64E-09	1.89E-09	5.82E-11	0.00E+00	1.95E-09	7.16E-10	1.88E-11	0.00E+00	7.35E-10
2814	458442.6	3767885	6.449E-09	3.31E-10	0.00E+00	6.78E-09	6.45E-09	3.31E-10	0.00E+00	6.78E-09	1.93E-09	5.94E-11	0.00E+00	1.99E-09	7.32E-10	1.92E-11	0.00E+00	7.51E-10
2815	458446.4	3767894	6.585E-09	3.38E-10	0.00E+00	6.92E-09	6.59E-09	3.38E-10	0.00E+00	6.92E-09	1.97E-09	6.07E-11	0.00E+00	2.03E-09	7.47E-10	1.96E-11	0.00E+00	7.67E-10
2816	458450.2	3767903	6.724E-09	3.45E-10	0.00E+00	7.07E-09	6.72E-09	3.45E-10	0.00E+00	7.07E-09	2.01E-09	6.20E-11	0.00E+00	2.08E-09	7.63E-10	2.00E-11	0.00E+00	7.83E-10
2817	458454.1	3767912	6.866E-09	3.52E-10	0.00E+00	7.22E-09	6.87E-09	3.52E-10	0.00E+00	7.22E-09	2.06E-09	6.33E-11	0.00E+00	2.12E-09	7.79E-10	2.04E-11	0.00E+00	7.99E-10
2818	458457.9	3767921	7.01E-09	3.59E-10	0.00E+00	7.37E-09	7.01E-09	3.59E-10	0.00E+00	7.37E-09	2.10E-09	6.46E-11	0.00E+00	2.16E-09	7.95E-10	2.09E-11	0.00E+00	8.16E-10
2819	458461.8	3767930	7.158E-09	3.67E-10	0.00E+00	7.53E-09	7.16E-09	3.67E-10	0.00E+00	7.53E-09	2.14E-09	6.60E-11	0.00E+00	2.21E-09	8.12E-10	2.13E-11	0.00E+00	8.33E-10
2820	458465.6	3767939	7.308E-09	3.75E-10	0.00E+00	7.68E-09	7.31E-09	3.75E-10	0.00E+00	7.68E-09	2.19E-09	6.74E-11	0.00E+00	2.26E-09	8.29E-10	2.17E-11	0.00E+00	8.51E-10
2821	458469.4	3767948	7.461E-09	3.82E-10	0.00E+00	7.84E-09	7.46E-09	3.82E-10	0.00E+00	7.84E-09	2.23E-09	6.88E-11	0.00E+00	2.30E-09	8.46E-10	2.22E-11	0.00E+00	8.69E-10
2822	458473.3	3767957	7.218E-09	3.70E-10	0.00E+00	7.59E-09	7.22E-09	3.70E-10	0.00E+00	7.59E-09	2.16E-09	6.65E-11	0.00E+00	2.23E-09	8.19E-10	2.15E-11	0.00E+00	8.40E-10
2823	458477.1	3767966	7.355E-09	3.77E-10	0.00E+00	7.73E-09	7.35E-09	3.77E-10	0.00E+00	7.73E-09	2.20E-09	6.78E-11	0.00E+00	2.27E-09	8.34E-10	2.19E-11	0.00E+00	8.56E-10
2824	458480.9	3767975	7.494E-09	3.84E-10	0.00E+00	7.88E-09	7.49E-09	3.84E-10	0.00E+00	7.88E-09	2.24E-09	6.91E-11	0.00E+00	2.31E-09	8.50E-10	2.23E-11	0.00E+00	8.72E-10
2825	458484.8	3767984	7.636E-09	3.91E-10	0.00E+00	8.03E-09	7.64E-09	3.91E-10	0.00E+00	8.03E-09	2.29E-09	7.04E-11	0.00E+00	2.36E-09	8.66E-10	2.27E-11	0.00E+00	8.89E-10
2826	458488.6	3767993	7.798E-09	4.00E-10	0.00E+00	8.20E-09	7.80E-09	4.00E-10	0.00E+00	8.20E-09	2.34E-09	7.19E-11	0.00E+00	2.41E-09	8.85E-10	2.32E-11	0.00E+00	9.08E-10
2827	458492.5	3768002	7.964E-09	4.08E-10	0.00E+00	8.37E-09	7.96E-09	4.08E-10	0.00E+00	8.37E-09	2.39E-09	7.34E-11	0.00E+00	2.46E-09	9.04E-10	2.37E-11	0.00E+00	9.27E-10
2828	458496.3	3768011	8.133E-09	4.17E-10	0.00E+00	8.55E-09	8.13E-09	4.17E-10	0.00E+00	8.55E-09	2.44E-09	7.50E-11	0.00E+00	2.51E-09	9.23E-10	2.42E-11	0.00E+00	9.47E-10
2829	457295	3768023	1.525E-07	7.82E-09	0.00E+00	1.60E-07	1.52E-07	7.82E-09	0.00E+00	1.60E-07	4.57E-08	1.41E-09	0.00E+00	4.71E-08	1.73E-08	4.54E-10	0.00E+00	1.78E-08
2830	457292.2	3768040	1.613E-07	8.27E-09	0.00E+00	1.70E-07	1.61E-07	8.27E-09	0.00E+00	1.70E-07	4.83E-08	1.49E-09	0.00E+00	4.98E-08	1.83E-08	4.80E-10	0.00E+00	1.88E-08
2831	457292.3	3768050	1.68E-07	8.61E-09	0.00E+00	1.77E-07	1.68E-07	8.61E-09	0.00E+00	1.77E-07	5.03E-08	1.55E-09	0.00E+00	5.19E-08	1.91E-08	5.00E-10	0.00E+00	1.96E-08
2832	457292.4	3768059	1.729E-07	8.87E-09	0.00E+00	1.82E-07	1.73E-07	8.87E-09	0.00E+00	1.82E-07	5.18E-08	1.59E-09	0.00E+00	5.34E-08	1.96E-08	5.15E-10	0.00E+00	2.01E-08
2833	457292.4	3768069	1.76E-07	9.02E-09	0.00E+00	1.85E-07	1.76E-07	9.02E-09	0.00E+00	1.85E-07	5.27E-08	1.62E-09	0.00E+00	5.43E-08	2.00E-08	5.24E-10	0.00E+00	2.05E-08
2834	457292.5	3768079	1.77E-07	9.07E-09	0.00E+00	1.86E-07	1.77E-07	9.07E-09	0.00E+00	1.86E-07	5.30E-08	1.63E-09	0.00E+00	5.46E-08	2.01E-08	5.27E-10	0.00E+00	2.06E-08
2835	457292.6	3768088	1.76E-07	9.02E-09	0.00E+00	1.85E-07	1.76E-07	9.02E-09	0.00E+00	1.85E-07	5.27E-08	1.62E-09	0.00E+00	5.43E-08	2.00E-08	5.24E-10	0.00E+00	2.05E-08
2836	457292.7	3768098	1.734E-07	8.89E-09	0.00E+00	1.82E-07	1.73E-07	8.89E-09	0.00E+00	1.82E-07	5.19E-08	1.60E-09	0.00E+00	5.35E-08	1.97E-08	5.16E-10	0.00E+00	2.02E-08
2837	457292.7	3768107	1.695E-07	8.69E-09	0.00E+00	1.78E-07	1.69E-07	8.69E-09	0.00E+00	1.78E-07	5.08E-08	1.56E-09	0.00E+00	5.23E-08	1.92E-08	5.04E-10	0.00E+00	1.97E-08
2838	457292.8	3768117	1.649E-07	8.46E-09	0.00E+00	1.73E-07	1.65E-07	8.46E-09	0.00E+00	1.73E-07	4.94E-08	1.52E-09	0.00E+00	5.09E-08	1.87E-08	4.91E-10	0.00E+00	1.92E-08
2839	457292.9	3768127	1.592E-07	8.16E-09	0.00E+00	1.67E-07	1.59E-07	8.16E-09	0.00E+00	1.67E-07	4.77E-08	1.47E-09	0.00E+00	4.91E-08	1.81E-08	4.74E-10	0.00E+00	1.85E-08
2840	457292.9	3768136	1.522E-07	7.80E-09	0.00E+00	1.60E-07	1.52E-07	7.80E-09	0.00E+00	1.60E-07	4.56E-08	1.40E-09	0.00E+00	4.70E-08	1.73E-08	4.53E-10	0.00E+00	1.77E-08
2841	457293	3768146	1.438E-07	7.37E-09	0.00E+00	1.51E-07	1.44E-07	7.37E-09	0.00E+00	1.51E-07	4.31E-08	1.33E-09	0.00E+00	4.44E-08	1.63E-08	4.28E-10	0.00E+00	1.67E-08
2842	457293.1	3768155	1.343E-07	6.88E-09	0.00E+00	1.41E-07	1.34E-07	6.88E-09	0.00E+00	1.41E-07	4.02E-08	1.24E-09	0.00E+00	4.15E-08	1.52E-08	4.00E-10	0.00E+00	1.56E-08
2843	457293.2	3768165	1.239E-07	6.35E-09	0.00E+00	1.30E-07	1.24E-07	6.35E-09	0.00E+00	1.30E-07	3.71E-08	1.14E-09	0.00E+00	3.83E-08	1.41E-08	3.69E-10	0.00E+00	1.44E-08
2844	457293.2	3768175	1.131E-07	5.80E-09	0.00E+00	1.19E-07	1.13E-07	5.80E-09	0.00E+00	1.19E-07	3.39E-08	1.04E-09	0.00E+00	3.49E-08	1.28E-08	3.37E-10	0.00E+00	1.32E-08
2845	457293.3	3768184	1.018E-07	5.22E-09	0.00E+00	1.07E-07	1.02E-07	5.22E-09	0.00E+00	1.07E-07	3.05E-08	9.38E-10	0.00E+00	3.14E-08	1.15E-08	3.03E-10	0.00E+00	1.18E-08
2846	457293.4	3768194	9.018E-08	4.62E-09	0.00E+00	9.48E-08	9.02E-08	4.62E-09	0.00E+00	9.48E-08	2.70E-08	8.31E-10	0.00E+00	2.78E-08	1.02E-08	2.68E-10	0.00E+00	1.05E-08
2847	457293.5	3768204	7.894E-08	4.05E-09	0.00E+00	8.30E-08	7.89E-08	4.05E-09	0.00E+00	8.30E-08	2.36E-08	7.28E-10	0.00E+00	2.44E-08	8.96E-09	2.35E-10	0.00E+00	9.19E-09
2848	457293.5	3768213	6.884E-08	3.53E-09	0.00E+00	7.24E-08	6.88E-08	3.53E-09	0.00E+00	7.24E-08	2.06E-08	6.35E-10	0.00E+00	2.13E-08	7.81E-09	2.05E-10	0.00E+00	8.02E-09
2849	457293.6	3768223	6.026E-08	3.09E-09	0.00E+00	6.33E-08	6.03E-08	3.09E-09	0.00E+00	6.33E-08	1.80E-08	5.55E-10	0.00E+00	1.86E-08	6.84E-09	1.79E-10	0.00E+00	7.02E-09
2850	457293.7	3768232	5.318E-08	2.73E-09	0.00E+00	5.59E-08	5.32E-08	2.73E-09	0.00E+00	5.59E-08	1.59E-08	4.90E-10	0.00E+00	1.64E-08	6.03E-09	1.58E-10	0.00E+00	6.19E-09
2851	457285	3768023	1.386E-07	7.10E-09	0.00E+00	1.46E-07	1.39E-07	7.10E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.12E-10	0.00E+00	1.61E-08
2852	457290.8	3768009	1.365E-07	7.00E-09	0.00E+00	1.43E-07	1.36E-07	7.00E-09	0.00E+00	1.43E-07	4.09E-08	1.26E-09	0.00E+00	4.21E-08	1.55E-08	4.06E-10	0.00E+00	1.59E-08
2853	457282.2	3768040	1.434E-07	7.35E-09	0.00E+00	1.51E-07	1.43E-07	7.35E-09	0.00E+00	1.51E-07	4.30E-08	1.32E-09	0.00E+00	4.43E-08	1.63E-08	4.27E-10	0.00E+00	1.67E-08
2854	457282.3	3768050	1.474E-07	7.56E-09	0.00E+00	1.55E-07	1.47E-07	7.56E-09	0.00E+00	1.55E-07	4.42E-08	1.36E-09	0.00E+00	4.55E-08	1.67E-08	4.39E-10	0.00E+00	1.72E-08
2855	457282.4	3768059	1.5E-07	7.69E-09	0.00E+00	1.58E-07	1.50E-07	7.69E-09	0.00E+00	1.58E-07	4.49E-08	1.38E-09	0.00E+00	4.63E-08	1.70E-08	4.46E-10	0.00E+00	1.75E-08
2856	457282.4	3768069	1.512E-07	7.75E-09	0.00E+00	1.59E-07	1.51E-07	7.75E-09	0.00E+00	1.59E-07	4.53E-08	1.39E-09	0.00E+00	4.67E-08	1.72E-08	4.50E-10	0.00E+00	1.76E-08
2857	457282.5	3768079	1.51E-07	7.74E-09	0.00E+00	1.59E-07	1.51E-07	7.74E-09	0.00E+00	1.59E-07	4.52E-08	1.39E-09	0.00E+00	4.66E-08	1.71E-08	4.49E-10	0.00E+00	1.76E-08
2858	457282.6	3768088	1.494E-07	7.66E-09	0.00E+00	1.57E-07	1.49E-07	7.66E-09	0.00E+00	1.57E-07	4.47E-08	1.38E-09	0.00E+00	4.61E-08	1.69E-08	4.45E-10	0.00E+00	1.74E-08
2859	457282.7	3768098	1.466E-07	7.51E-09	0.00E+00	1.54E-07	1.47E-07	7.51E-09	0.00E+00	1.54E-07	4.39E-08	1.35E-09	0.00E+00	4.53E-08	1.66E-08	4.36E-10	0.00E+00	1.71E-08
2860	457282.7	3768107	1.427E-07	7.31E-09	0.00E+00	1.50E-07	1.43E-07	7.31E-09	0.00E+00	1.50E-07	4.27E-08	1.32E-09	0.00E+00	4.41E-08	1.62E-08	4.25E-10	0.00E+00	1.66E-08
2861	457282.8	3768117	1.382E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.27E-09	0.00E+00	4.27E-08	1.57E-08	4.11E-10	0.00E+00	1.61E-08
2862	457282.9	3768127	1.328E-07	6.81E-09	0.00E+00	1.40E-07	1.33E-07	6.81E-09	0.00E+00	1.40E-07	3.98E-08	1.22E-09	0.00E+00	4.10E-08	1.51E-08	3.95E-10	0.00E+00	1.55E-08
2863	457282.9	3768136	1.266E-07	6.49E-09	0.00E+00	1.33E-07	1.27E-07	6.49E-09	0.00E+00	1.33E-07	3.79E-08	1.17E-09	0.00E+00	3.91E-08	1.44E-08	3.77E-10	0.00E+00	1.47E-08
2864	457283	3768146	1.192E-07	6.11E-09	0.00E+00	1.25E-07	1.19E-07	6.11E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
2865	457283.1	3768156	1.112E-07	5.70E-09	0.00E+00	1.17E-07	1.11E-07	5.70E-09	0.00E+00	1.17E-07	3.33E-08	1.03E-09	0.00E+00	3.43E-08	1.26E-08	3.31E-10	0.00E+00	1.29E-08
2866	457283.2	3768165	1.027E-07	5.26E-09	0.00E+00	1.08E-07	1.03E-07	5.26E-09	0.00E+00	1.08E-07	3.07E-08	9.46E-10	0.00E+00	3.17E-08	1.16E-08	3.05E-10	0.00E+00	1.20E-08
2867	457283.2	3768175	9.384E-08	4.81E-09	0.00E+00	9.86E-08	9.38E-08	4.81E-09	0.00E+00	9.86E-08	2.81E-08	8.65E-10	0.00E+00	2.90E-08	1.06E-08	2.79E-10	0.00E+00	1.09E-08
2868	457283.3	3768184	8.485E-08	4.35E-09	0.00E+00	8.92E-08	8.49E-08	4.35E-09	0.00E+00	8.92E-08	2.54E-08	7.82E-10	0.00E+00	2.62E-08	9.63E-09	2.53E-10	0.00E+00	9.88E-09
2869	457283.4	3768194	7.602E-08	3.90E-09	0.00E+00	7.99E-08	7.60E-08	3.90E-09	0.00E+00	7.99E-08	2.28E-08	7.01E-10	0.00E+00	2.35E-08	8.63E-09	2.26E-10	0.00E+00	8.85E-09
2870	457283.5	3768204	6.769E-08	3.47E-09	0.00E+00	7.12E-08	6.77E-08	3.47E-09	0.00E+00	7.12E-08	2.03E-08	6.24E-10	0.00E+00	2.09E-08	7.68E-09	2.01E-10	0.00E+00	7.88E-09
2871	457283.5	3768213	6.018E-08	3.09E-09	0.00E+00	6.33E-08	6.02E-08	3.09E-09	0.00E+00	6.33E-08	1.80E-08	5.55E-10	0.00E+00	1.86E-08	6.83E-09	1.79E-10	0.00E+00	7.01E-09
2872	457283.6	3768223	5.364E-08	2.75E-09	0.00E+00	5.64E-08	5.36E-08	2.75E-09	0.00E+00	5.64E-08	1.61E-08	4.94E-10	0.00E+00	1.66E-08	6.09E-09	1.60E-10	0.00E+00	6.25E-09
2873	457283.7	3768232	4.805E-08	2.46E-09	0.00E+00	5.05E-08	4.80E-08	2.46E-09	0.00E+00	5.05E-08	1.44E-08	4.43E-10	0.00E+00	1.48E-08	5.45E-09	1.43E-10	0.00E+00	5.59E-09
2874	457275.8	3768022	1.26E-07	6.46E-09	0.00E+00	1.32E-07	1.26E-07	6.46E-09	0.00E+00	1.32E-07	3.77E-08	1.16E-09	0.00E+00	3.89E-08	1.43E-08	3.75E-10	0.00E+00	1.47E-08
2875	457279.4	3768013	1.26E-07	6.46E-09	0.00E+00	1.32E-07	1.26E-07	6.46E-09	0.00E+00	1.32E-07	3.77E-08	1.16E-09	0.00E+00	3.89E-08	1.43E-08	3.75E-10	0.00E+00	1.47E-08
2876	457283	3768004	1.252E-07	6.42E-09	0.00E+00	1.32E-07	1.25E-07	6.42E-09	0.00E+00	1.32E-07	3.75E-08	1.15E-09	0.00E+00	3.86E-08	1.42E-08	3.73E-10	0.00E+00	1.46E-08
2877	457272.1	3768031	1.25E-07	6.41E-09	0.00E+00	1.31E-07	1.25E-07	6.41E-09	0.00E+00	1.31E-07	3.74E-08	1.15E-09	0.00E+00	3.86E-08	1.42E-08	3.72E-10	0.00E+00	1.45E-08
2878	457272.2	3768040	1.281E-07	6.57E-09	0.00E+00	1.35E-07	1.28E-07	6.57E-09	0.00E+00	1.35E-07	3.84E-08	1.18E-09	0.00E+00	3.95E-08	1.45E-08	3.81E-10	0.00E+00	1.49E-08
2879	457272.3	3768050	1.303E-07	6.68E-09	0.00E+00	1.37E-07	1.30E-07	6.68E-09	0.00E+00	1.37E-07	3.90E-08	1.20E-09	0.00E+00	4.02E-08	1.48E-08	3.88E-10	0.00E+00	1.52E-08
2880	457272.4	3768059	1.315E-07	6.74E-09	0.00E+00	1.38E-07	1.31E-07	6.74E-09	0.00E+00	1.38E-07	3.94E-08	1.21E-09	0.00E+00	4.06E-08	1.49E-08	3.91E-10	0.00E+00	1.53E-08
2881	457272.4	3768069	1.316E-07	6.75E-09	0.00E+00	1.38E-07	1.32E-07	6.75E-09	0.00E+00	1.38E-07	3.94E-08	1.21E-09	0.00E+00	4.06E-08	1.49E-08	3.92E-10	0.00E+00	1.53E-08
2882	457272.5	3768079	1.307E-07	6.70E-09	0.00E+00	1.37E-07	1.31E-07	6.70E-09	0.00E+00	1.37E-07	3.91E-08	1.20E-09	0.00E+00	4.03E-08	1.48E-08	3.89E-10	0.00E+00	1.52E-08
2883	457272.6	3768088	1.287E-07	6.60E-09	0.00E+00	1.35E-07	1.29E-07	6.60E-09	0.00E+00	1.35E-07	3.85E-08	1.19E-09	0.00E+00	3.97E-08	1.46E-08	3.83E-10	0.00E+00	1.50E-08
2884	457272.7	3768098	1.258E-07	6.45E-09	0.00E+00	1.32E-07	1.26E-07	6.45E-09	0.00E+00	1.32E-07	3.77E-08	1.16E-09	0.00E+00	3.88E-08	1.43E-08	3.74E-10	0.00E+00	1.46E-08
2885	457272.7	3768108	1.221E-07	6.26E-09	0.00E+00	1.28E-07	1.22E-07	6.26E-09	0.00E+00	1.28E-07	3.66E-08	1.13E-09	0.00E+00	3.77E-08	1.38E-08	3.63E-10	0.00E+00	1.42E-08
2886	457272.8	3768117	1.179E-07	6.04E-09	0.00E+00	1.24E-07	1.18E-07	6.04E-09	0.00E+00	1.24E-07	3.53E-08	1.09E-09	0.00E+00	3.64E-08	1.34E-08	3.51E-10	0.00E+00	1.37E-08
2887	457272.9	3768127	1.13E-07	5.79E-09	0.00E+00	1.19E-07	1.13E-07	5.79E-09	0.00E+00	1.19E-07	3.38E-08	1.04E-09	0.00E+00	3.49E-08	1.28E-08	3.36E-10	0.00E+00	1.32E-08
2888	457272.9	3768136	1.074E-07	5.50E-09	0.00E+00	1.13E-07	1.07E-07	5.50E-09	0.00E+00	1.13E-07	3.22E-08	9.90E-10	0.00E+00	3.32E-08	1.22E-08	3.20E-10	0.00E+00	1.25E-08
2889	457273	3768146	1.01E-07	5.18E-09	0.00E+00	1.06E-07	1.01E-07	5.18E-09	0.00E+00	1.06E-07	3.03E-08	9.31E-10	0.00E+00	3.12E-08	1.15E-08	3.01E-10	0.00E+00	1.18E-08
2890	457273.1	3768156	9.425E-08	4.83E-09	0.00E+00	9.91E-08	9.43E-08	4.83E-09	0.00E+00	9.91E-08	2.82E-08	8.69E-10	0.00E+00	2.91E-08	1.07E-08	2.80E-10	0.00E+00	1.10E-08
2891	457273.2	3768165	8.716E-08	4.47E-09	0.00E+00	9.16E-08	8.72E-08	4.47E-09	0.00E+00	9.16E-08	2.61E-08	8.03E-10	0.00E+00	2.69E-08	9.89E-09	2.59E-10	0.00E+00	1.01E-08
2892	457273.2	3768175	7.994E-08	4.10E-09	0.00E+00	8.40E-08	7.99E-08	4.10E-09	0.00E+00	8.40E-08	2.39E-08	7.37E-10	0.00E+00	2.47E-08	9.07E-09	2.38E-10	0.00E+00	9.31E-09
2893	457273.3	3768184	7.276E-08	3.73E-09	0.00E+00	7.65E-08	7.28E-08	3.73E-09	0.00E+00	7.65E-08	2.18E-08	6.71E-10	0.00E+00	2.25E-08	8.25E-09	2.17E-10	0.00E+00	8.47E-09
2894	457273.4	3768194	6.582E-08	3.37E-09	0.00E+00	6.92E-08	6.58E-08	3.37E-09	0.00E+00	6.92E-08	1.97E-08	6.07E-10	0.00E+00	2.03E-08	7.47E-09	1.96E-10	0.00E+00	7.66E-09
2895	457273.5	3768204	5.937E-08	3.04E-09	0.00E+00	6.24E-08	5.94E-08	3.04E-09	0.00E+00	6.24E-08	1.78E-08	5.47E-10	0.00E+00	1.83E-08	6.74E-09	1.77E-10	0.00E+00	6.91E-09
2896	457273.5	3768213	5.353E-08	2.74E-09	0.00E+00	5.63E-08	5.35E-08	2.74E-09	0.00E+00	5.63E-08	1.60E-08	4.93E-10	0.00E+00	1.65E-08	6.07E-09	1.59E-10	0.00E+00	6.23E-09
2897	457273.6	3768223	4.834E-08	2.48E-09	0.00E+00	5.08E-08	4.83E-08	2.48E-09	0.00E+00	5.08E-08	1.45E-08	4.46E-10	0.00E+00	1.49E-08	5.48E-09	1.44E-10	0.00E+00	5.63E-09
2898	457273.7	3768233	4.38E-08	2.25E-09	0.00E+00	4.60E-08	4.38E-08	2.25E-09	0.00E+00	4.60E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.97E-09	1.30E-10	0.00E+00	5.10E-09
2899	457265.6	3768022	1.146E-07	5.87E-09	0.00E+00	1.20E-07	1.15E-07	5.87E-09	0.00E+00	1.20E-07	3.43E-08	1.06E-09	0.00E+00	3.54E-08	1.30E-08	3.41E-10	0.00E+00	1.33E-08
2900	457269.1	3768014	1.155E-07	5.92E-09	0.00E+00	1.21E-07	1.15E-07	5.92E-09	0.00E+00	1.21E-07	3.46E-08	1.06E-09	0.00E+00	3.56E-08	1.31E-08	3.44E-10	0.00E+00	1.34E-08
2901	457272.6	3768005	1.157E-07	5.93E-09	0.00E+00	1.22E-07	1.16E-07	5.93E-09	0.00E+00	1.22E-07	3.47E-08	1.07E-09	0.00E+00	3.57E-08	1.31E-08	3.44E-10	0.00E+00	1.35E-08
2902	457276	3767997	1.152E-07	5.91E-09	0.00E+00	1.21E-07	1.15E-07	5.91E-09	0.00E+00	1.21E-07	3.45E-08	1.06E-09	0.00E+00	3.56E-08	1.31E-08	3.43E-10	0.00E+00	1.34E-08
2903	457288	3767984	1.188E-07	6.09E-09	0.00E+00	1.25E-07	1.19E-07	6.09E-09	0.00E+00	1.25E-07	3.56E-08	1.10E-09	0.00E+00	3.67E-08	1.35E-08	3.53E-10	0.00E+00	1.38E-08
2904	457262.1	3768031	1.129E-07	5.79E-09	0.00E+00	1.19E-07	1.13E-07	5.79E-09	0.00E+00	1.19E-07	3.38E-08	1.04E-09	0.00E+00	3.48E-08	1.28E-08	3.36E-10	0.00E+00	1.31E-08
2905	457262.2	3768040	1.147E-07	5.88E-09	0.00E+00	1.21E-07	1.15E-07	5.88E-09	0.00E+00	1.21E-07	3.44E-08	1.06E-09	0.00E+00	3.54E-08	1.30E-08	3.41E-10	0.00E+00	1.34E-08
2906	457262.3	3768050	1.158E-07	5.94E-09	0.00E+00	1.22E-07	1.16E-07	5.94E-09	0.00E+00	1.22E-07	3.47E-08	1.07E-09	0.00E+00	3.58E-08	1.31E-08	3.45E-10	0.00E+00	1.35E-08
2907	457262.4	3768060	1.161E-07	5.95E-09	0.00E+00	1.22E-07	1.16E-07	5.95E-09	0.00E+00	1.22E-07	3.48E-08	1.07E-09	0.00E+00	3.59E-08	1.32E-08	3.46E-10	0.00E+00	1.35E-08
2908	457262.4	3768069	1.157E-07	5.93E-09	0.00E+00	1.22E-07	1.16E-07	5.93E-09	0.00E+00	1.22E-07	3.46E-08	1.07E-09	0.00E+00	3.57E-08	1.31E-08	3.44E-10	0.00E+00	1.35E-08
2909	457262.5	3768079	1.143E-07	5.86E-09	0.00E+00	1.20E-07	1.14E-07	5.86E-09	0.00E+00	1.20E-07	3.42E-08	1.05E-09	0.00E+00	3.53E-08	1.30E-08	3.40E-10	0.00E+00	1.33E-08

2910	457262.6	3768088	1.122E-07	5.75E-09	0.00E+00	1.18E-07	1.12E-07	5.75E-09	0.00E+00	1.18E-07	3.36E-08	1.03E-09	0.00E+00	3.46E-08	1.27E-08	3.34E-10	0.00E+00	1.31E-08
2911	457262.7	3768098	1.093E-07	5.61E-09	0.00E+00	1.15E-07	1.09E-07	5.61E-09	0.00E+00	1.15E-07	3.27E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.25E-10	0.00E+00	1.27E-08
2912	457262.7	3768108	1.058E-07	5.42E-09	0.00E+00	1.11E-07	1.06E-07	5.42E-09	0.00E+00	1.11E-07	3.17E-08	9.75E-10	0.00E+00	3.27E-08	1.20E-08	3.15E-10	0.00E+00	1.23E-08
2913	457262.8	3768117	1.019E-07	5.22E-09	0.00E+00	1.07E-07	1.02E-07	5.22E-09	0.00E+00	1.07E-07	3.05E-08	9.39E-10	0.00E+00	3.15E-08	1.16E-08	3.03E-10	0.00E+00	1.19E-08
2914	457262.9	3768127	9.741E-08	4.99E-09	0.00E+00	1.02E-07	9.74E-08	4.99E-09	0.00E+00	1.02E-07	2.92E-08	8.98E-10	0.00E+00	3.01E-08	1.11E-08	2.90E-10	0.00E+00	1.13E-08
2915	457262.9	3768136	9.246E-08	4.74E-09	0.00E+00	9.72E-08	9.25E-08	4.74E-09	0.00E+00	9.72E-08	2.77E-08	8.52E-10	0.00E+00	2.85E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
2916	457263	3768146	8.704E-08	4.46E-09	0.00E+00	9.15E-08	8.70E-08	4.46E-09	0.00E+00	9.15E-08	2.61E-08	8.02E-10	0.00E+00	2.69E-08	9.87E-09	2.59E-10	0.00E+00	1.01E-08
2917	457263.1	3768156	8.133E-08	4.17E-09	0.00E+00	8.55E-08	8.13E-08	4.17E-09	0.00E+00	8.55E-08	2.44E-08	7.50E-10	0.00E+00	2.51E-08	9.23E-09	2.42E-10	0.00E+00	9.47E-09
2918	457263.2	3768165	7.547E-08	3.87E-09	0.00E+00	7.93E-08	7.55E-08	3.87E-09	0.00E+00	7.93E-08	2.26E-08	6.96E-10	0.00E+00	2.33E-08	8.56E-09	2.25E-10	0.00E+00	8.79E-09
2919	457263.2	3768175	6.953E-08	3.56E-09	0.00E+00	7.31E-08	6.95E-08	3.56E-09	0.00E+00	7.31E-08	2.08E-08	6.41E-10	0.00E+00	2.15E-08	7.89E-09	2.07E-10	0.00E+00	8.10E-09
2920	457263.3	3768185	6.369E-08	3.27E-09	0.00E+00	6.70E-08	6.37E-08	3.27E-09	0.00E+00	6.70E-08	1.91E-08	5.87E-10	0.00E+00	1.97E-08	7.23E-09	1.90E-10	0.00E+00	7.41E-09
2921	457263.4	3768194	5.81E-08	2.98E-09	0.00E+00	6.11E-08	5.81E-08	2.98E-09	0.00E+00	6.11E-08	1.74E-08	5.36E-10	0.00E+00	1.79E-08	6.59E-09	1.73E-10	0.00E+00	6.76E-09
2922	457263.5	3768204	5.293E-08	2.71E-09	0.00E+00	5.56E-08	5.29E-08	2.71E-09	0.00E+00	5.56E-08	1.59E-08	4.88E-10	0.00E+00	1.63E-08	6.00E-09	1.57E-10	0.00E+00	6.16E-09
2923	457263.5	3768213	4.821E-08	2.47E-09	0.00E+00	5.07E-08	4.82E-08	2.47E-09	0.00E+00	5.07E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.47E-09	1.43E-10	0.00E+00	5.61E-09
2924	457263.6	3768223	4.396E-08	2.25E-09	0.00E+00	4.62E-08	4.40E-08	2.25E-09	0.00E+00	4.62E-08	1.32E-08	4.05E-10	0.00E+00	1.36E-08	4.99E-09	1.31E-10	0.00E+00	5.12E-09
2925	457263.7	3768233	4.019E-08	2.06E-09	0.00E+00	4.22E-08	4.02E-08	2.06E-09	0.00E+00	4.22E-08	1.20E-08	3.70E-10	0.00E+00	1.24E-08	4.56E-09	1.20E-10	0.00E+00	4.68E-09
2926	457255.5	3768022	1.043E-07	5.35E-09	0.00E+00	1.10E-07	1.04E-07	5.35E-09	0.00E+00	1.10E-07	3.12E-08	9.61E-10	0.00E+00	3.22E-08	1.18E-08	3.10E-10	0.00E+00	1.21E-08
2927	457262.3	3768006	1.066E-07	5.47E-09	0.00E+00	1.12E-07	1.07E-07	5.47E-09	0.00E+00	1.12E-07	3.19E-08	9.83E-10	0.00E+00	3.29E-08	1.21E-08	3.17E-10	0.00E+00	1.24E-08
2928	457269	3767989	1.066E-07	5.47E-09	0.00E+00	1.12E-07	1.07E-07	5.47E-09	0.00E+00	1.12E-07	3.19E-08	9.83E-10	0.00E+00	3.29E-08	1.21E-08	3.17E-10	0.00E+00	1.24E-08
2929	457280.7	3767977	1.1E-07	5.64E-09	0.00E+00	1.16E-07	1.10E-07	5.64E-09	0.00E+00	1.16E-07	3.30E-08	1.01E-09	0.00E+00	3.40E-08	1.25E-08	3.27E-10	0.00E+00	1.28E-08
2930	457252.2	3768040	1.031E-07	5.29E-09	0.00E+00	1.08E-07	1.03E-07	5.29E-09	0.00E+00	1.08E-07	3.09E-08	9.51E-10	0.00E+00	3.18E-08	1.17E-08	3.07E-10	0.00E+00	1.20E-08
2931	457252.3	3768050	1.035E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.54E-10	0.00E+00	3.20E-08	1.17E-08	3.08E-10	0.00E+00	1.21E-08
2932	457252.4	3768060	1.033E-07	5.30E-09	0.00E+00	1.09E-07	1.03E-07	5.30E-09	0.00E+00	1.09E-07	3.09E-08	9.52E-10	0.00E+00	3.19E-08	1.17E-08	3.07E-10	0.00E+00	1.20E-08
2933	457252.4	3768069	1.025E-07	5.25E-09	0.00E+00	1.08E-07	1.02E-07	5.25E-09	0.00E+00	1.08E-07	3.07E-08	9.45E-10	0.00E+00	3.16E-08	1.16E-08	3.05E-10	0.00E+00	1.19E-08
2934	457252.5	3768079	1.01E-07	5.18E-09	0.00E+00	1.06E-07	1.01E-07	5.18E-09	0.00E+00	1.06E-07	3.02E-08	9.31E-10	0.00E+00	3.12E-08	1.15E-08	3.00E-10	0.00E+00	1.18E-08
2935	457252.6	3768088	9.877E-08	5.06E-09	0.00E+00	1.04E-07	9.88E-08	5.06E-09	0.00E+00	1.04E-07	2.96E-08	9.11E-10	0.00E+00	3.05E-08	1.12E-08	2.94E-10	0.00E+00	1.15E-08
2936	457252.7	3768098	9.602E-08	4.92E-09	0.00E+00	1.01E-07	9.60E-08	4.92E-09	0.00E+00	1.01E-07	2.88E-08	8.85E-10	0.00E+00	2.96E-08	1.09E-08	2.86E-10	0.00E+00	1.12E-08
2937	457252.7	3768108	9.275E-08	4.76E-09	0.00E+00	9.75E-08	9.28E-08	4.76E-09	0.00E+00	9.75E-08	2.78E-08	8.55E-10	0.00E+00	2.86E-08	1.05E-08	2.76E-10	0.00E+00	1.08E-08
2938	457252.8	3768117	8.911E-08	4.57E-09	0.00E+00	9.37E-08	8.91E-08	4.57E-09	0.00E+00	9.37E-08	2.67E-08	8.21E-10	0.00E+00	2.75E-08	1.01E-08	2.65E-10	0.00E+00	1.04E-08
2939	457252.9	3768127	8.505E-08	4.36E-09	0.00E+00	8.94E-08	8.51E-08	4.36E-09	0.00E+00	8.94E-08	2.55E-08	7.84E-10	0.00E+00	2.63E-08	9.65E-09	2.53E-10	0.00E+00	9.90E-09
2940	457252.9	3768137	8.067E-08	4.14E-09	0.00E+00	8.48E-08	8.07E-08	4.14E-09	0.00E+00	8.48E-08	2.42E-08	7.44E-10	0.00E+00	2.49E-08	9.15E-09	2.40E-10	0.00E+00	9.39E-09
2941	457253	3768146	7.605E-08	3.90E-09	0.00E+00	8.00E-08	7.61E-08	3.90E-09	0.00E+00	8.00E-08	2.28E-08	7.01E-10	0.00E+00	2.35E-08	8.63E-09	2.26E-10	0.00E+00	8.85E-09
2942	457253.1	3768156	7.124E-08	3.65E-09	0.00E+00	7.49E-08	7.12E-08	3.65E-09	0.00E+00	7.49E-08	2.13E-08	6.57E-10	0.00E+00	2.20E-08	8.08E-09	2.12E-10	0.00E+00	8.29E-09
2943	457253.2	3768165	6.635E-08	3.40E-09	0.00E+00	6.97E-08	6.63E-08	3.40E-09	0.00E+00	6.97E-08	1.99E-08	6.12E-10	0.00E+00	2.05E-08	7.53E-09	1.97E-10	0.00E+00	7.72E-09
2944	457253.2	3768175	6.141E-08	3.15E-09	0.00E+00	6.46E-08	6.14E-08	3.15E-09	0.00E+00	6.46E-08	1.84E-08	5.66E-10	0.00E+00	1.90E-08	6.97E-09	1.83E-10	0.00E+00	7.15E-09
2945	457253.3	3768185	5.66E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
2946	457253.4	3768194	5.202E-08	2.67E-09	0.00E+00	5.47E-08	5.20E-08	2.67E-09	0.00E+00	5.47E-08	1.56E-08	4.79E-10	0.00E+00	1.61E-08	5.90E-09	1.55E-10	0.00E+00	6.06E-09
2947	457253.5	3768204	4.774E-08	2.45E-09	0.00E+00	5.02E-08	4.77E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.47E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
2948	457253.5	3768213	4.382E-08	2.25E-09	0.00E+00	4.61E-08	4.38E-08	2.25E-09	0.00E+00	4.61E-08	1.31E-08	4.04E-10	0.00E+00	1.35E-08	4.97E-09	1.30E-10	0.00E+00	5.10E-09
2949	457253.6	3768223	4.027E-08	2.06E-09	0.00E+00	4.23E-08	4.03E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
2950	457253.7	3768233	3.709E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
2951	457245.4	3768023	9.51E-08	4.88E-09	0.00E+00	1.00E-07	9.51E-08	4.88E-09	0.00E+00	1.00E-07	2.85E-08	8.77E-10	0.00E+00	2.94E-08	1.08E-08	2.83E-10	0.00E+00	1.11E-08
2952	457252.1	3768006	9.815E-08	5.03E-09	0.00E+00	1.03E-07	9.82E-08	5.03E-09	0.00E+00	1.03E-07	2.94E-08	9.05E-10	0.00E+00	3.03E-08	1.11E-08	2.92E-10	0.00E+00	1.14E-08
2953	457258.7	3767990	9.924E-08	5.09E-09	0.00E+00	1.04E-07	9.92E-08	5.09E-09	0.00E+00	1.04E-07	2.97E-08	9.15E-10	0.00E+00	3.06E-08	1.13E-08	2.95E-10	0.00E+00	1.16E-08
2954	457273.4	3767971	1.024E-07	5.25E-09	0.00E+00	1.08E-07	1.02E-07	5.25E-09	0.00E+00	1.08E-07	3.07E-08	9.44E-10	0.00E+00	3.16E-08	1.16E-08	3.05E-10	0.00E+00	1.19E-08
2955	457289.6	3767964	1.089E-07	5.58E-09	0.00E+00	1.15E-07	1.09E-07	5.58E-09	0.00E+00	1.15E-07	3.26E-08	1.00E-09	0.00E+00	3.36E-08	1.24E-08	3.24E-10	0.00E+00	1.27E-08
2956	457242.2	3768040	9.313E-08	4.77E-09	0.00E+00	9.79E-08	9.31E-08	4.77E-09	0.00E+00	9.79E-08	2.79E-08	8.59E-10	0.00E+00	2.88E-08	1.06E-08	2.77E-10	0.00E+00	1.08E-08
2957	457242.3	3768050	9.302E-08	4.77E-09	0.00E+00	9.78E-08	9.30E-08	4.77E-09	0.00E+00	9.78E-08	2.79E-08	8.57E-10	0.00E+00	2.87E-08	1.06E-08	2.77E-10	0.00E+00	1.08E-08
2958	457242.4	3768060	9.249E-08	4.74E-09	0.00E+00	9.72E-08	9.25E-08	4.74E-09	0.00E+00	9.72E-08	2.77E-08	8.53E-10	0.00E+00	2.86E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
2959	457242.4	3768069	9.146E-08	4.69E-09	0.00E+00	9.61E-08	9.15E-08	4.69E-09	0.00E+00	9.61E-08	2.74E-08	8.43E-10	0.00E+00	2.82E-08	1.04E-08	2.72E-10	0.00E+00	1.06E-08
2960	457242.5	3768079	8.987E-08	4.61E-09	0.00E+00	9.45E-08	8.99E-08	4.61E-09	0.00E+00	9.45E-08	2.69E-08	8.28E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.05E-08
2961	457242.6	3768089	8.771E-08	4.50E-09	0.00E+00	9.22E-08	8.77E-08	4.50E-09	0.00E+00	9.22E-08	2.63E-08	8.09E-10	0.00E+00	2.71E-08	9.95E-09	2.61E-10	0.00E+00	1.02E-08
2962	457242.7	3768098	8.509E-08	4.36E-09	0.00E+00	8.95E-08	8.51E-08	4.36E-09	0.00E+00	8.95E-08	2.55E-08	7.84E-10	0.00E+00	2.63E-08	9.65E-09	2.53E-10	0.00E+00	9.91E-09
2963	457242.7	3768108	8.207E-08	4.21E-09	0.00E+00	8.63E-08	8.21E-08	4.21E-09	0.00E+00	8.63E-08	2.46E-08	7.57E-10	0.00E+00	2.53E-08	9.31E-09	2.44E-10	0.00E+00	9.56E-09
2964	457242.8	3768117	7.873E-08	4.04E-09	0.00E+00	8.28E-08	7.87E-08	4.04E-09	0.00E+00	8.28E-08	2.36E-08	7.26E-10	0.00E+00	2.43E-08	8.93E-09	2.34E-10	0.00E+00	9.17E-09
2965	457242.9	3768127	7.509E-08	3.85E-09	0.00E+00	7.89E-08	7.51E-08	3.85E-09	0.00E+00	7.89E-08	2.25E-08	6.92E-10	0.00E+00	2.32E-08	8.52E-09	2.23E-10	0.00E+00	8.74E-09
2966	457242.9	3768137	7.121E-08	3.65E-09	0.00E+00	7.49E-08	7.12E-08	3.65E-09	0.00E+00	7.49E-08	2.13E-08	6.56E-10	0.00E+00	2.20E-08	8.08E-09	2.12E-10	0.00E+00	8.29E-09
2967	457243	3768146	6.726E-08	3.45E-09	0.00E+00	7.07E-08	6.73E-08	3.45E-09	0.00E+00	7.07E-08	2.01E-08	6.20E-10	0.00E+00	2.08E-08	7.63E-09	2.00E-10	0.00E+00	7.83E-09
2968	457243.1	3768156	6.317E-08	3.24E-09	0.00E+00	6.64E-08	6.32E-08	3.24E-09	0.00E+00	6.64E-08	1.89E-08	5.82E-10	0.00E+00	1.95E-08	7.17E-09	1.88E-10	0.00E+00	7.36E-09
2969	457243.2	3768165	5.905E-08	3.03E-09	0.00E+00	6.21E-08	5.90E-08	3.03E-09	0.00E+00	6.21E-08	1.77E-08	5.44E-10	0.00E+00	1.82E-08	6.70E-09	1.76E-10	0.00E+00	6.88E-09
2970	457243.2	3768175	5.49E-08	2.81E-09	0.00E+00	5.77E-08	5.49E-08	2.81E-09	0.00E+00	5.77E-08	1.64E-08	5.06E-10	0.00E+00	1.69E-08	6.23E-09	1.63E-10	0.00E+00	6.39E-09
2971	457243.3	3768185	5.088E-08	2.61E-09	0.00E+00	5.35E-08	5.09E-08	2.61E-09	0.00E+00	5.35E-08	1.52E-08	4.69E-10	0.00E+00	1.57E-08	5.77E-09	1.51E-10	0.00E+00	5.92E-09
2972	457243.4	3768194	4.704E-08	2.41E-09	0.00E+00	4.95E-08	4.70E-08	2.41E-09	0.00E+00	4.95E-08	1.41E-08	4.34E-10	0.00E+00	1.45E-08	5.34E-09	1.40E-10	0.00E+00	5.48E-09
2973	457243.5	3768204	4.345E-08	2.23E-09	0.00E+00	4.57E-08	4.35E-08	2.23E-09	0.00E+00	4.57E-08	1.30E-08	4.01E-10	0.00E+00	1.34E-08	4.93E-09	1.29E-10	0.00E+00	5.06E-09
2974	457243.5	3768214	4.014E-08	2.06E-09	0.00E+00	4.22E-08	4.01E-08	2.06E-09	0.00E+00	4.22E-08	1.20E-08	3.70E-10	0.00E+00	1.24E-08	4.55E-09	1.19E-10	0.00E+00	4.67E-09
2975	457243.6	3768223	3.712E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
2976	457243.7	3768233	3.439E-08	1.76E-09	0.00E+00	3.62E-08	3.44E-08	1.76E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.00E-09
2977	457235.4	3768023	8.693E-08	4.46E-09	0.00E+00	9.14E-08	8.69E-08	4.46E-09	0.00E+00	9.14E-08	2.60E-08	8.01E-10	0.00E+00	2.68E-08	9.86E-09	2.59E-10	0.00E+00	1.01E-08
2978	457241.9	3768007	9.038E-08	4.63E-09	0.00E+00	9.50E-08	9.04E-08	4.63E-09	0.00E+00	9.50E-08	2.71E-08	8.33E-10	0.00E+00	2.79E-08	1.03E-08	2.69E-10	0.00E+00	1.05E-08
2979	457248.4	3767991	9.221E-08	4.73E-09	0.00E+00	9.69E-08	9.22E-08	4.73E-09	0.00E+00	9.69E-08	2.76E-08	8.50E-10	0.00E+00	2.85E-08	1.05E-08	2.74E-10	0.00E+00	1.07E-08
2980	457254.9	3767975	9.245E-08	4.74E-09	0.00E+00	9.72E-08	9.24E-08	4.74E-09	0.00E+00	9.72E-08	2.77E-08	8.52E-10	0.00E+00	2.85E-08	1.05E-08	2.75E-10	0.00E+00	1.08E-08
2981	457266.2	3767964	9.557E-08	4.90E-09	0.00E+00	1.00E-07	9.56E-08	4.90E-09	0.00E+00	1.00E-07	2.86E-08	8.81E-10	0.00E+00	2.95E-08	1.08E-08	2.84E-10	0.00E+00	1.11E-08
2982	457282.1	3767957	1.017E-07	5.21E-09	0.00E+00	1.07E-07	1.02E-07	5.21E-09	0.00E+00	1.07E-07	3.05E-08	9.37E-10	0.00E+00	3.14E-08	1.15E-08	3.03E-10	0.00E+00	1.18E-08
2983	457232.2	3768041	8.454E-08	4.33E-09	0.00E+00	8.89E-08	8.45E-08	4.33E-09	0.00E+00	8.89E-08	2.53E-08	7.79E-10	0.00E+00	2.61E-08	9.59E-09	2.52E-10	0.00E+00	9.84E-09
2984	457232.3	3768050	8.409E-08	4.31E-09	0.00E+00	8.84E-08	8.41E-08	4.31E-09	0.00E+00	8.84E-08	2.52E-08	7.75E-10	0.00E+00	2.60E-08	9.54E-09	2.50E-10	0.00E+00	9.79E-09
2985	457232.4	3768060	8.329E-08	4.27E-09	0.00E+00	8.76E-08	8.33E-08	4.27E-09	0.00E+00	8.76E-08	2.49E-08	7.68E-10	0.00E+00	2.57E-08	9.45E-09	2.48E-10	0.00E+00	9.70E-09
2986	457232.4	3768069	8.209E-08	4.21E-09	0.00E+00	8.63E-08	8.21E-08	4.21E-09	0.00E+00	8.63E-08	2.46E-08	7.57E-10	0.00E+00	2.53E-08	9.31E-09	2.44E-10	0.00E+00	9.56E-09
2987	457232.5	3768079	8.046E-08	4.12E-09	0.00E+00	8.46E-08	8.05E-08	4.12E-09	0.00E+00	8.46E-08	2.41E-08	7.42E-10	0.00E+00	2.48E-08	9.13E-09	2.39E-10	0.00E+00	9.37E-09
2988	457232.6	3768089	7.84E-08	4.02E-09	0.00E+00	8.24E-08	7.84E-08	4.02E-09	0.00E+00	8.24E-08	2.35E-08	7.23E-10	0.00E+00	2.42E-08	8.89E-09	2.33E-10	0.00E+00	9.13E-09
2989	457232.7	3768098	7.598E-08	3.90E-09	0.00E+00	7.99E-08	7.60E-08	3.90E-09	0.00E+00	7.99E-08	2.28E-08	7.00E-10	0.00E+00	2.35E-08	8.62E-09	2.26E-10	0.00E+00	8.85E-09
2990	457232.7	3768108	7.324E-08	3.75E-09	0.00E+00	7.70E-08	7.32E-08	3.75E-09	0.00E+00	7.70E-08	2.19E-08	6.75E-10	0.00E+00	2.26E-08	8.31E-09	2.18E-10	0.00E+00	8.53E-09
2991	457232.8	3768117	7.022E-08	3.60E-09	0.00E+00	7.38E-08	7.02E-08	3.60E-09	0.00E+00	7.38E-08	2.10E-08	6.47E-10	0.00E+00	2.17E-08	7.97E-09	2.09E-10	0.00E+00	8.18E-09
2992	457232.9	3768127	6.697E-08	3.43E-09	0.00E+00	7.04E-08	6.70E-08	3.43E-09	0.00E+00	7.04E-08	2.01E-08	6.17E-10	0.00E+00	2.07E-08	7.60E-09	1.99E-10	0.00E+00	7.80E-09
2993	457232.9	3768137	6.356E-08	3.26E-09	0.00E+00	6.68E-08	6.36E-08	3.26E-09	0.00E+00	6.68E-08	1.90E-08	5.86E-10	0.00E+00	1.96E-08	7.21E-09	1.89E-10	0.00E+00	7.40E-09
2994	457233	3768146	6.013E-08	3.08E-09	0.00E+00	6.32E-08	6.01E-08	3.08E-09	0.00E+00	6.32E-08	1.80E-08	5.54E-10	0.00E+00	1.86E-08	6.82E-09	1.79E-10	0.00E+00	7.00E-09
2995	457233.1	3768156	5.661E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
2996	457233.2	3768166	5.31E-08	2.72E-09	0.00E+00	5.58E-08	5.31E-08	2.72E-09	0.00E+00	5.58E-08	1.59E-08	4.89E-10	0.00E+00	1.64E-08	6.02E-09	1.58E-10	0.00E+00	6.18E-09
2997	457233.2	3768175	4.957E-08	2.54E-09	0.00E+00	5.21E-08	4.96E-08	2.54E-09	0.00E+00	5.21E-08	1.48E-08	4.57E-10	0.00E+00	1.53E-08	5.62E-09	1.47E-10	0.00E+00	5.77E-09
2998	457233.3	3768185	4.615E-08	2.37E-09	0.00E+00	4.85E-08	4.62E-08	2.37E-09	0.00E+00	4.85E-08	1.38E-08	4.25E-10	0.00E+00	1.42E-08	5.24E-09	1.37E-10	0.00E+00	5.37E-09
2999	457233.4	3768194	4.29E-08	2.20E-09	0.00E+00	4.51E-08	4.29E-08	2.20E-09	0.00E+00	4.51E-08	1.28E-08	3.95E-10	0.00E+00	1.32E-08	4.87E-09	1.28E-10	0.00E+00	4.99E-09
3000	457233.5	3768204	3.984E-08	2.04E-09	0.00E+00	4.19E-08	3.98E-08	2.04E-09	0.00E+00	4.19E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.52E-09	1.19E-10	0.00E+00	4.64E-09
3001	457233.5	3768214	3.701E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
3002	457233.6	3768223	3.44E-08	1.76E-09	0.00E+00	3.62E-08	3.44E-08	1.76E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.01E-09
3003	457233.7	3768233	3.204E-08	1.64E-09	0.00E+00	3.37E-08	3.20E-08	1.64E-09	0.00E+00	3.37E-08	9.60E-09	2.95E-10	0.00E+00	9.89E-09	3.63E-09	9.53E-11	0.00E+00	3.73E-09
3004	457225.8	3768022	7.992E-08	4.10E-09	0.00E+00	8.40E-08	7.99E-08	4.10E-09	0.00E+00	8.40E-08	2.39E-08	7.37E-10	0.00E+00	2.47E-08	9.07E-09	2.38E-10	0.00E+00	9.31E-09
3005	457229.4	3768013	8.206E-08	4.21E-09	0.00E+00	8.63E-08	8.21E-08	4.21E-09	0.00E+00	8.63E-08	2.46E-08	7.56E-10	0.00E+00	2.53E-08	9.31E-09	2.44E-10	0.00E+00	9.55E-09
3006	457233	3768004	8.379E-08	4.30E-09	0.00E+00	8.81E-08	8.38E-08	4.30E-09	0.00E+00	8.81E-08	2.51E-08	7.72E-10	0.00E+00	2.59E-08	9.51E-09	2.49E-10	0.00E+00	9.76E-09
3007	457236.6	3767995	8.513E-08	4.36E-09	0.00E+00	8.95E-08	8.51E-08	4.36E-09	0.00E+00	8.95E-08	2.55E-08	7.85E-10	0.00E+00	2.63E-08	9.66E-09	2.53E-10	0.00E+00	9.91E-09
3008	457240.2	3767986	8.606E-08	4.41E-09	0.00E+00	9.05E-08	8.61E-08	4.41E-09	0.00E+00	9.05E-08	2.58E-08	7.93E-10	0.00E+00	2.66E-08	9.76E-09	2.56E-10	0.00E+00	1.00E-08
3009	457243.9	3767978	8.647E-08	4.43E-09	0.00E+00	9.09E-08	8.65E-08	4.43E-09	0.00E+00	9.09E-08	2.59E-08	7.97E-10	0.00E+00	2.67E-08	9.81E-09	2.57E-10	0.00E+00	1.01E-08
3010	457247.5	3767969	8.653E-08	4.44E-09	0.00E+00	9.10E-08	8.65E-08	4.44E-09	0.00E+00	9.10E-08	2.59E-08	7.98E-10	0.00E+00	2.67E-08	9.82E-09	2.57E-10	0.00E+00	1.01E-08
3011	457260	3767956	8.984E-08	4.61E-09	0.00E+00	9.44E-08	8.98E-08	4.61E-09	0.00E+00	9.44E-08	2.69E-08	8.28E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.05E-08
3012	457268.8	3767952	9.315E-08	4.78E-09	0.00E+00	9.79E-08	9.32E-08	4.78E-09	0.00E+00	9.79E-08	2.79E-08	8.59E-10	0.00E+00	2.88E-08	1.06E-08	2.77E-10	0.00E+00	1.08E-08
3013	457277.7	3767949	9.605E-08	4.92E-09	0.00E+00	1.01E-07	9.61E-08	4.92E-09	0.00E+00	1.01E-07	2.88E-08	8.85E-10	0.00E+00	2.97E-08	1.09E-08	2.86E-10	0.00E+00	1.12E-08
3014	457286.5	3767945	9.858E-08	5.05E-09	0.00E+00	1.04E-07	9.86E-08	5.05E-09	0.00E+00	1.04E-07	2.95E-08	9.09E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.15E-08
3015	457222.1	3768031	7.74E-08	3.97E-09	0.00E+00	8.14E-08	7.74E-08	3.97E-09	0.00E+00	8.14E-08	2.32E-08	7.13E-10	0.00E+00	2.39E-08	8.78E-09	2.30E-10	0.00E+00	9.01E-09
3016	457222.2	3768041	7.705E-08	3.95E-09	0.00E+00	8.10E-08	7.70E-08	3.95E-09	0.00E+00	8.10E-08	2.31E-08	7.10E-10	0.00E+00	2.38E-08	8.74E-09	2.29E-10	0.00E+00	8.97E-09
3017	457222.3	3768050	7.637E-08	3.92E-09	0.00E+00	8.03E-08	7.64E-08	3.92E-09	0.00E+00	8.03E-08	2.29E-08	7.04E-10	0.00E+00	2.36E-08	8.66E-09	2.27E-10	0.00E+00	8.89E-09
3018	457222.4	3768060	7.54E-08	3.87E-09	0.00E+00	7.93E-08	7.54E-08	3.87E-09	0.00E+00	7.93E-08	2.26E-08	6.95E-10	0.00E+00	2.33E-08	8.55E-09	2.24E-10	0.00E+00	8.78E-09
3019	457222.4	3768069	7.409E-08	3.80E-09	0.00E+00	7.79E-08	7.41E-08	3.80E-09	0.00E+00	7.79E-08	2.22E-08	6.83E-10	0.00E+00	2.29E-08	8.41E-09	2.20E-10	0.00E+00	8.63E-09
3020	457222.5	3768079	7.245E-08	3.71E-09	0.00E+00	7.62E-08	7.25E-08	3.71E-09	0.00E+00	7.62E-08	2.17E-08	6.68E-10	0.00E+00	2.24E-08	8.22E-09	2.16E-10	0.00E+00	8.44E-09
3021	457222.6	3768089	7.053E-08	3.62E-09	0.00E+00	7.41E-08	7.05E-08	3.62E-09	0.00E+00	7.41E-08	2.11E-08	6.50E-10	0.00E+00	2.18E-08	8.00E-09	2.10E-10	0.00E+00	8.21E-09

3022	457222.7	3768098	6.831E-08	3.50E-09	0.00E+00	7.18E-08	6.83E-08	3.50E-09	0.00E+00	7.18E-08	2.05E-08	6.30E-10	0.00E+00	2.11E-08	7.75E-09	2.03E-10	0.00E+00	7.95E-09
3023	457222.7	3768108	6.584E-08	3.38E-09	0.00E+00	6.92E-08	6.58E-08	3.38E-09	0.00E+00	6.92E-08	1.97E-08	6.07E-10	0.00E+00	2.03E-08	7.47E-09	1.96E-10	0.00E+00	7.67E-09
3024	457222.8	3768118	6.312E-08	3.24E-09	0.00E+00	6.64E-08	6.31E-08	3.24E-09	0.00E+00	6.64E-08	1.89E-08	5.82E-10	0.00E+00	1.95E-08	7.16E-09	1.88E-10	0.00E+00	7.35E-09
3025	457222.9	3768127	6.024E-08	3.09E-09	0.00E+00	6.33E-08	6.02E-08	3.09E-09	0.00E+00	6.33E-08	1.80E-08	5.55E-10	0.00E+00	1.86E-08	6.83E-09	1.79E-10	0.00E+00	7.01E-09
3026	457222.9	3768137	5.723E-08	2.93E-09	0.00E+00	6.02E-08	5.72E-08	2.93E-09	0.00E+00	6.02E-08	1.71E-08	5.28E-10	0.00E+00	1.77E-08	6.49E-09	1.70E-10	0.00E+00	6.66E-09
3027	457223	3768146	5.423E-08	2.78E-09	0.00E+00	5.70E-08	5.42E-08	2.78E-09	0.00E+00	5.70E-08	1.62E-08	5.00E-10	0.00E+00	1.67E-08	6.15E-09	1.61E-10	0.00E+00	6.31E-09
3028	457223.1	3768156	5.118E-08	2.62E-09	0.00E+00	5.38E-08	5.12E-08	2.62E-09	0.00E+00	5.38E-08	1.53E-08	4.72E-10	0.00E+00	1.58E-08	5.81E-09	1.52E-10	0.00E+00	5.96E-09
3029	457223.2	3768166	4.814E-08	2.47E-09	0.00E+00	5.06E-08	4.81E-08	2.47E-09	0.00E+00	5.06E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.46E-09	1.43E-10	0.00E+00	5.60E-09
3030	457223.2	3768175	4.511E-08	2.31E-09	0.00E+00	4.74E-08	4.51E-08	2.31E-09	0.00E+00	4.74E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.12E-09	1.34E-10	0.00E+00	5.25E-09
3031	457223.3	3768185	4.218E-08	2.16E-09	0.00E+00	4.43E-08	4.22E-08	2.16E-09	0.00E+00	4.43E-08	1.26E-08	3.89E-10	0.00E+00	1.30E-08	4.78E-09	1.26E-10	0.00E+00	4.91E-09
3032	457223.4	3768194	3.939E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
3033	457223.5	3768204	3.675E-08	1.88E-09	0.00E+00	3.86E-08	3.68E-08	1.88E-09	0.00E+00	3.86E-08	1.10E-08	3.39E-10	0.00E+00	1.13E-08	4.17E-09	1.09E-10	0.00E+00	4.28E-09
3034	457223.5	3768214	3.43E-08	1.76E-09	0.00E+00	3.61E-08	3.43E-08	1.76E-09	0.00E+00	3.61E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.89E-09	1.02E-10	0.00E+00	3.99E-09
3035	457223.6	3768223	3.203E-08	1.64E-09	0.00E+00	3.37E-08	3.20E-08	1.64E-09	0.00E+00	3.37E-08	9.59E-09	2.95E-10	0.00E+00	9.89E-09	3.63E-09	9.53E-11	0.00E+00	3.73E-09
3036	457223.7	3768233	2.996E-08	1.54E-09	0.00E+00	3.15E-08	3.00E-08	1.54E-09	0.00E+00	3.15E-08	8.97E-09	2.76E-10	0.00E+00	9.25E-09	3.40E-09	8.92E-11	0.00E+00	3.49E-09
3037	457200.8	3768022	6.503E-08	3.33E-09	0.00E+00	6.84E-08	6.50E-08	3.33E-09	0.00E+00	6.84E-08	1.95E-08	5.99E-10	0.00E+00	2.01E-08	7.38E-09	1.94E-10	0.00E+00	7.57E-09
3038	457204.4	3768013	6.713E-08	3.44E-09	0.00E+00	7.06E-08	6.71E-08	3.44E-09	0.00E+00	7.06E-08	2.01E-08	6.19E-10	0.00E+00	2.07E-08	7.62E-09	2.00E-10	0.00E+00	7.82E-09
3039	457208	3768004	6.893E-08	3.53E-09	0.00E+00	7.25E-08	6.89E-08	3.53E-09	0.00E+00	7.25E-08	2.06E-08	6.35E-10	0.00E+00	2.13E-08	7.82E-09	2.05E-10	0.00E+00	8.03E-09
3040	457211.6	3767996	7.048E-08	3.61E-09	0.00E+00	7.41E-08	7.05E-08	3.61E-09	0.00E+00	7.41E-08	2.11E-08	6.50E-10	0.00E+00	2.18E-08	8.00E-09	2.10E-10	0.00E+00	8.21E-09
3041	457215.2	3767987	7.179E-08	3.68E-09	0.00E+00	7.55E-08	7.18E-08	3.68E-09	0.00E+00	7.55E-08	2.15E-08	6.62E-10	0.00E+00	2.22E-08	8.14E-09	2.14E-10	0.00E+00	8.36E-09
3042	457218.9	3767978	7.286E-08	3.74E-09	0.00E+00	7.66E-08	7.29E-08	3.74E-09	0.00E+00	7.66E-08	2.18E-08	6.72E-10	0.00E+00	2.25E-08	8.27E-09	2.17E-10	0.00E+00	8.48E-09
3043	457222.5	3767969	7.363E-08	3.77E-09	0.00E+00	7.74E-08	7.36E-08	3.77E-09	0.00E+00	7.74E-08	2.21E-08	6.79E-10	0.00E+00	2.27E-08	8.35E-09	2.19E-10	0.00E+00	8.57E-09
3044	457226.1	3767960	7.41E-08	3.80E-09	0.00E+00	7.79E-08	7.41E-08	3.80E-09	0.00E+00	7.79E-08	2.22E-08	6.83E-10	0.00E+00	2.29E-08	8.41E-09	2.20E-10	0.00E+00	8.63E-09
3045	457229.7	3767951	7.431E-08	3.81E-09	0.00E+00	7.81E-08	7.43E-08	3.81E-09	0.00E+00	7.81E-08	2.23E-08	6.85E-10	0.00E+00	2.29E-08	8.43E-09	2.21E-10	0.00E+00	8.65E-09
3046	457242.2	3767939	7.719E-08	3.96E-09	0.00E+00	8.11E-08	7.72E-08	3.96E-09	0.00E+00	8.11E-08	2.31E-08	7.12E-10	0.00E+00	2.38E-08	8.76E-09	2.30E-10	0.00E+00	8.99E-09
3047	457251.1	3767935	7.993E-08	4.10E-09	0.00E+00	8.40E-08	7.99E-08	4.10E-09	0.00E+00	8.40E-08	2.39E-08	7.37E-10	0.00E+00	2.47E-08	9.07E-09	2.38E-10	0.00E+00	9.31E-09
3048	457259.9	3767931	8.246E-08	4.23E-09	0.00E+00	8.67E-08	8.25E-08	4.23E-09	0.00E+00	8.67E-08	2.47E-08	7.60E-10	0.00E+00	2.55E-08	9.36E-09	2.45E-10	0.00E+00	9.60E-09
3049	457268.8	3767927	8.473E-08	4.34E-09	0.00E+00	8.91E-08	8.47E-08	4.34E-09	0.00E+00	8.91E-08	2.54E-08	7.81E-10	0.00E+00	2.62E-08	9.61E-09	2.52E-10	0.00E+00	9.87E-09
3050	457277.6	3767924	8.676E-08	4.45E-09	0.00E+00	9.12E-08	8.68E-08	4.45E-09	0.00E+00	9.12E-08	2.60E-08	8.00E-10	0.00E+00	2.68E-08	9.84E-09	2.58E-10	0.00E+00	1.01E-08
3051	457286.5	3767920	8.852E-08	4.54E-09	0.00E+00	9.31E-08	8.85E-08	4.54E-09	0.00E+00	9.31E-08	2.65E-08	8.16E-10	0.00E+00	2.73E-08	1.00E-08	2.63E-10	0.00E+00	1.03E-08
3052	457197.1	3768031	6.272E-08	3.22E-09	0.00E+00	6.59E-08	6.27E-08	3.22E-09	0.00E+00	6.59E-08	1.88E-08	5.78E-10	0.00E+00	1.94E-08	7.12E-09	1.87E-10	0.00E+00	7.30E-09
3053	457197.2	3768041	6.203E-08	3.18E-09	0.00E+00	6.52E-08	6.20E-08	3.18E-09	0.00E+00	6.52E-08	1.86E-08	5.72E-10	0.00E+00	1.92E-08	7.04E-09	1.85E-10	0.00E+00	7.22E-09
3054	457197.3	3768050	6.112E-08	3.13E-09	0.00E+00	6.43E-08	6.11E-08	3.13E-09	0.00E+00	6.43E-08	1.83E-08	5.63E-10	0.00E+00	1.89E-08	6.93E-09	1.82E-10	0.00E+00	7.12E-09
3055	457197.4	3768060	6.001E-08	3.08E-09	0.00E+00	6.31E-08	6.00E-08	3.08E-09	0.00E+00	6.31E-08	1.80E-08	5.53E-10	0.00E+00	1.85E-08	6.81E-09	1.79E-10	0.00E+00	6.99E-09
3056	457197.4	3768070	5.868E-08	3.01E-09	0.00E+00	6.17E-08	5.87E-08	3.01E-09	0.00E+00	6.17E-08	1.76E-08	5.41E-10	0.00E+00	1.81E-08	6.66E-09	1.75E-10	0.00E+00	6.83E-09
3057	457197.5	3768079	5.718E-08	2.93E-09	0.00E+00	6.01E-08	5.72E-08	2.93E-09	0.00E+00	6.01E-08	1.71E-08	5.27E-10	0.00E+00	1.77E-08	6.49E-09	1.70E-10	0.00E+00	6.66E-09
3058	457197.6	3768089	5.557E-08	2.85E-09	0.00E+00	5.84E-08	5.56E-08	2.85E-09	0.00E+00	5.84E-08	1.66E-08	5.12E-10	0.00E+00	1.72E-08	6.30E-09	1.65E-10	0.00E+00	6.47E-09
3059	457197.7	3768098	5.378E-08	2.76E-09	0.00E+00	5.65E-08	5.38E-08	2.76E-09	0.00E+00	5.65E-08	1.61E-08	4.96E-10	0.00E+00	1.66E-08	6.10E-09	1.60E-10	0.00E+00	6.26E-09
3060	457197.7	3768108	5.184E-08	2.66E-09	0.00E+00	5.45E-08	5.18E-08	2.66E-09	0.00E+00	5.45E-08	1.55E-08	4.78E-10	0.00E+00	1.60E-08	5.88E-09	1.54E-10	0.00E+00	6.04E-09
3061	457197.8	3768118	4.975E-08	2.55E-09	0.00E+00	5.23E-08	4.98E-08	2.55E-09	0.00E+00	5.23E-08	1.49E-08	4.59E-10	0.00E+00	1.54E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
3062	457197.9	3768127	4.758E-08	2.44E-09	0.00E+00	5.00E-08	4.76E-08	2.44E-09	0.00E+00	5.00E-08	1.43E-08	4.39E-10	0.00E+00	1.47E-08	5.40E-09	1.42E-10	0.00E+00	5.54E-09
3063	457198	3768137	4.536E-08	2.33E-09	0.00E+00	4.77E-08	4.54E-08	2.33E-09	0.00E+00	4.77E-08	1.36E-08	4.18E-10	0.00E+00	1.40E-08	5.15E-09	1.35E-10	0.00E+00	5.28E-09
3064	457198	3768147	4.315E-08	2.21E-09	0.00E+00	4.54E-08	4.31E-08	2.21E-09	0.00E+00	4.54E-08	1.29E-08	3.98E-10	0.00E+00	1.33E-08	4.90E-09	1.28E-10	0.00E+00	5.02E-09
3065	457198.1	3768156	4.093E-08	2.10E-09	0.00E+00	4.30E-08	4.09E-08	2.10E-09	0.00E+00	4.30E-08	1.23E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.77E-09
3066	457198.2	3768166	3.875E-08	1.99E-09	0.00E+00	4.07E-08	3.87E-08	1.99E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.20E-08	4.40E-09	1.15E-10	0.00E+00	4.51E-09
3067	457198.2	3768175	3.66E-08	1.88E-09	0.00E+00	3.85E-08	3.66E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.37E-10	0.00E+00	1.13E-08	4.15E-09	1.09E-10	0.00E+00	4.26E-09
3068	457198.3	3768185	3.453E-08	1.77E-09	0.00E+00	3.63E-08	3.45E-08	1.77E-09	0.00E+00	3.63E-08	1.03E-08	3.18E-10	0.00E+00	1.07E-08	3.92E-09	1.03E-10	0.00E+00	4.02E-09
3069	457198.4	3768195	3.254E-08	1.67E-09	0.00E+00	3.42E-08	3.25E-08	1.67E-09	0.00E+00	3.42E-08	9.75E-09	3.00E-10	0.00E+00	1.00E-08	3.69E-09	9.68E-11	0.00E+00	3.79E-09
3070	457198.5	3768204	3.066E-08	1.57E-09	0.00E+00	3.22E-08	3.07E-08	1.57E-09	0.00E+00	3.22E-08	9.18E-09	2.83E-10	0.00E+00	9.46E-09	3.48E-09	9.12E-11	0.00E+00	3.57E-09
3071	457198.5	3768214	2.888E-08	1.48E-09	0.00E+00	3.04E-08	2.89E-08	1.48E-09	0.00E+00	3.04E-08	8.65E-09	2.66E-10	0.00E+00	8.92E-09	3.28E-09	8.59E-11	0.00E+00	3.36E-09
3072	457198.6	3768224	2.721E-08	1.40E-09	0.00E+00	2.86E-08	2.72E-08	1.40E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.10E-11	0.00E+00	3.17E-09
3073	457198.7	3768233	2.567E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.69E-09	2.37E-10	0.00E+00	7.92E-09	2.91E-09	7.64E-11	0.00E+00	2.99E-09
3074	457175.8	3768022	5.371E-08	2.75E-09	0.00E+00	5.65E-08	5.37E-08	2.75E-09	0.00E+00	5.65E-08	1.61E-08	4.95E-10	0.00E+00	1.66E-08	6.09E-09	1.60E-10	0.00E+00	6.25E-09
3075	457179.4	3768014	5.563E-08	2.85E-09	0.00E+00	5.85E-08	5.56E-08	2.85E-09	0.00E+00	5.85E-08	1.67E-08	5.13E-10	0.00E+00	1.72E-08	6.31E-09	1.66E-10	0.00E+00	6.48E-09
3076	457183	3768005	5.736E-08	2.94E-09	0.00E+00	6.03E-08	5.74E-08	2.94E-09	0.00E+00	6.03E-08	1.72E-08	5.29E-10	0.00E+00	1.77E-08	6.51E-09	1.71E-10	0.00E+00	6.68E-09
3077	457186.6	3767996	5.893E-08	3.02E-09	0.00E+00	6.19E-08	5.89E-08	3.02E-09	0.00E+00	6.19E-08	1.76E-08	5.43E-10	0.00E+00	1.82E-08	6.69E-09	1.75E-10	0.00E+00	6.86E-09
3078	457190.2	3767987	6.032E-08	3.09E-09	0.00E+00	6.34E-08	6.03E-08	3.09E-09	0.00E+00	6.34E-08	1.81E-08	5.56E-10	0.00E+00	1.86E-08	6.84E-09	1.79E-10	0.00E+00	7.02E-09
3079	457193.9	3767978	6.159E-08	3.16E-09	0.00E+00	6.47E-08	6.16E-08	3.16E-09	0.00E+00	6.47E-08	1.84E-08	5.68E-10	0.00E+00	1.90E-08	6.99E-09	1.83E-10	0.00E+00	7.17E-09
3080	457197.5	3767969	6.266E-08	3.21E-09	0.00E+00	6.59E-08	6.27E-08	3.21E-09	0.00E+00	6.59E-08	1.88E-08	5.78E-10	0.00E+00	1.93E-08	7.11E-09	1.86E-10	0.00E+00	7.30E-09
3081	457201.1	3767960	6.354E-08	3.26E-09	0.00E+00	6.68E-08	6.35E-08	3.26E-09	0.00E+00	6.68E-08	1.90E-08	5.86E-10	0.00E+00	1.96E-08	7.21E-09	1.89E-10	0.00E+00	7.40E-09
3082	457204.7	3767951	6.421E-08	3.29E-09	0.00E+00	6.75E-08	6.42E-08	3.29E-09	0.00E+00	6.75E-08	1.92E-08	5.92E-10	0.00E+00	1.98E-08	7.28E-09	1.91E-10	0.00E+00	7.48E-09
3083	457208.3	3767942	6.467E-08	3.32E-09	0.00E+00	6.80E-08	6.47E-08	3.32E-09	0.00E+00	6.80E-08	1.94E-08	5.96E-10	0.00E+00	2.00E-08	7.34E-09	1.92E-10	0.00E+00	7.53E-09
3084	457212	3767934	6.495E-08	3.33E-09	0.00E+00	6.83E-08	6.49E-08	3.33E-09	0.00E+00	6.83E-08	1.95E-08	5.99E-10	0.00E+00	2.01E-08	7.37E-09	1.93E-10	0.00E+00	7.56E-09
3085	457224.4	3767921	6.744E-08	3.46E-09	0.00E+00	7.09E-08	6.74E-08	3.46E-09	0.00E+00	7.09E-08	2.02E-08	6.22E-10	0.00E+00	2.08E-08	7.65E-09	2.01E-10	0.00E+00	7.85E-09
3086	457233.3	3767917	6.975E-08	3.58E-09	0.00E+00	7.33E-08	6.97E-08	3.58E-09	0.00E+00	7.33E-08	2.09E-08	6.43E-10	0.00E+00	2.15E-08	7.91E-09	2.08E-10	0.00E+00	8.12E-09
3087	457242.2	3767914	7.192E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
3088	457251	3767910	7.395E-08	3.79E-09	0.00E+00	7.77E-08	7.39E-08	3.79E-09	0.00E+00	7.77E-08	2.21E-08	6.82E-10	0.00E+00	2.28E-08	8.39E-09	2.20E-10	0.00E+00	8.61E-09
3089	457259.9	3767906	7.579E-08	3.89E-09	0.00E+00	7.97E-08	7.58E-08	3.89E-09	0.00E+00	7.97E-08	2.27E-08	6.99E-10	0.00E+00	2.34E-08	8.60E-09	2.26E-10	0.00E+00	8.82E-09
3090	457268.7	3767902	7.743E-08	3.97E-09	0.00E+00	8.14E-08	7.74E-08	3.97E-09	0.00E+00	8.14E-08	2.32E-08	7.14E-10	0.00E+00	2.39E-08	8.79E-09	2.30E-10	0.00E+00	9.02E-09
3091	457277.6	3767899	7.886E-08	4.04E-09	0.00E+00	8.29E-08	7.89E-08	4.04E-09	0.00E+00	8.29E-08	2.36E-08	7.27E-10	0.00E+00	2.43E-08	8.95E-09	2.35E-10	0.00E+00	9.18E-09
3092	457286.5	3767895	8.006E-08	4.10E-09	0.00E+00	8.42E-08	8.01E-08	4.10E-09	0.00E+00	8.42E-08	2.40E-08	7.38E-10	0.00E+00	2.47E-08	9.08E-09	2.38E-10	0.00E+00	9.32E-09
3093	457172.1	3768031	5.169E-08	2.65E-09	0.00E+00	5.43E-08	5.17E-08	2.65E-09	0.00E+00	5.43E-08	1.55E-08	4.76E-10	0.00E+00	1.60E-08	5.86E-09	1.54E-10	0.00E+00	6.02E-09
3094	457172.2	3768041	5.093E-08	2.61E-09	0.00E+00	5.35E-08	5.09E-08	2.61E-09	0.00E+00	5.35E-08	1.53E-08	4.69E-10	0.00E+00	1.57E-08	5.78E-09	1.52E-10	0.00E+00	5.93E-09
3095	457172.3	3768051	5.001E-08	2.56E-09	0.00E+00	5.26E-08	5.00E-08	2.56E-09	0.00E+00	5.26E-08	1.50E-08	4.61E-10	0.00E+00	1.54E-08	5.67E-09	1.49E-10	0.00E+00	5.82E-09
3096	457172.4	3768060	4.895E-08	2.51E-09	0.00E+00	5.15E-08	4.90E-08	2.51E-09	0.00E+00	5.15E-08	1.47E-08	4.51E-10	0.00E+00	1.51E-08	5.55E-09	1.46E-10	0.00E+00	5.70E-09
3097	457172.4	3768070	4.777E-08	2.45E-09	0.00E+00	5.02E-08	4.78E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.47E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
3098	457172.5	3768079	4.648E-08	2.38E-09	0.00E+00	4.89E-08	4.65E-08	2.38E-09	0.00E+00	4.89E-08	1.39E-08	4.28E-10	0.00E+00	1.43E-08	5.27E-09	1.38E-10	0.00E+00	5.41E-09
3099	457172.6	3768089	4.511E-08	2.31E-09	0.00E+00	4.74E-08	4.51E-08	2.31E-09	0.00E+00	4.74E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.12E-09	1.34E-10	0.00E+00	5.25E-09
3100	457172.7	3768099	4.364E-08	2.24E-09	0.00E+00	4.59E-08	4.36E-08	2.24E-09	0.00E+00	4.59E-08	1.31E-08	4.02E-10	0.00E+00	1.35E-08	4.95E-09	1.30E-10	0.00E+00	5.08E-09
3101	457172.7	3768108	4.21E-08	2.16E-09	0.00E+00	4.43E-08	4.21E-08	2.16E-09	0.00E+00	4.43E-08	1.26E-08	3.88E-10	0.00E+00	1.30E-08	4.78E-09	1.25E-10	0.00E+00	4.90E-09
3102	457172.8	3768118	4.049E-08	2.08E-09	0.00E+00	4.26E-08	4.05E-08	2.08E-09	0.00E+00	4.26E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
3103	457172.9	3768128	3.883E-08	1.99E-09	0.00E+00	4.08E-08	3.88E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.52E-09
3104	457173	3768137	3.715E-08	1.90E-09	0.00E+00	3.91E-08	3.72E-08	1.90E-09	0.00E+00	3.91E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.11E-10	0.00E+00	4.33E-09
3105	457173	3768147	3.546E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.09E-08	4.02E-09	1.06E-10	0.00E+00	4.13E-09
3106	457173.1	3768156	3.379E-08	1.73E-09	0.00E+00	3.55E-08	3.38E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.01E-10	0.00E+00	3.93E-09
3107	457173.2	3768166	3.215E-08	1.65E-09	0.00E+00	3.38E-08	3.21E-08	1.65E-09	0.00E+00	3.38E-08	9.63E-09	2.96E-10	0.00E+00	9.93E-09	3.65E-09	9.57E-11	0.00E+00	3.74E-09
3108	457173.2	3768176	3.056E-08	1.57E-09	0.00E+00	3.21E-08	3.06E-08	1.57E-09	0.00E+00	3.21E-08	9.15E-09	2.82E-10	0.00E+00	9.44E-09	3.47E-09	9.10E-11	0.00E+00	3.56E-09
3109	457173.3	3768185	2.903E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.70E-09	2.68E-10	0.00E+00	8.96E-09	3.29E-09	8.64E-11	0.00E+00	3.38E-09
3110	457173.4	3768195	2.756E-08	1.41E-09	0.00E+00	2.90E-08	2.76E-08	1.41E-09	0.00E+00	2.90E-08	8.25E-09	2.54E-10	0.00E+00	8.51E-09	3.13E-09	8.20E-11	0.00E+00	3.21E-09
3111	457173.5	3768204	2.614E-08	1.34E-09	0.00E+00	2.75E-08	2.61E-08	1.34E-09	0.00E+00	2.75E-08	7.83E-09	2.41E-10	0.00E+00	8.07E-09	2.97E-09	7.78E-11	0.00E+00	3.04E-09
3112	457173.5	3768214	2.48E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.43E-09	2.29E-10	0.00E+00	7.66E-09	2.81E-09	7.38E-11	0.00E+00	2.89E-09
3113	457173.6	3768224	2.353E-08	1.21E-09	0.00E+00	2.47E-08	2.35E-08	1.21E-09	0.00E+00	2.47E-08	7.05E-09	2.17E-10	0.00E+00	7.26E-09	2.67E-09	7.00E-11	0.00E+00	2.74E-09
3114	457173.7	3768233	2.233E-08	1.14E-09	0.00E+00	2.35E-08	2.23E-08	1.14E-09	0.00E+00	2.35E-08	6.69E-09	2.06E-10	0.00E+00	6.89E-09	2.53E-09	6.65E-11	0.00E+00	2.60E-09
3115	457150.8	3768023	4.494E-08	2.30E-09	0.00E+00	4.72E-08	4.49E-08	2.30E-09	0.00E+00	4.72E-08	1.35E-08	4.14E-10	0.00E+00	1.39E-08	5.10E-09	1.34E-10	0.00E+00	5.23E-09
3116	457154.4	3768014	4.66E-08	2.39E-09	0.00E+00	4.90E-08	4.66E-08	2.39E-09	0.00E+00	4.90E-08	1.40E-08	4.30E-10	0.00E+00	1.44E-08	5.29E-09	1.39E-10	0.00E+00	5.43E-09
3117	457158	3768005	4.82E-08	2.47E-09	0.00E+00	5.07E-08	4.82E-08	2.47E-09	0.00E+00	5.07E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.47E-09	1.43E-10	0.00E+00	5.61E-09
3118	457161.6	3767996	4.97E-08	2.55E-09	0.00E+00	5.23E-08	4.97E-08	2.55E-09	0.00E+00	5.23E-08	1.49E-08	4.58E-10	0.00E+00	1.53E-08	5.64E-09	1.48E-10	0.00E+00	5.79E-09
3119	457165.2	3767987	5.109E-08	2.62E-09	0.00E+00	5.37E-08	5.11E-08	2.62E-09	0.00E+00	5.37E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.80E-09	1.52E-10	0.00E+00	5.95E-09
3120	457168.9	3767978	5.238E-08	2.69E-09	0.00E+00	5.51E-08	5.24E-08	2.69E-09	0.00E+00	5.51E-08	1.57E-08	4.83E-10	0.00E+00	1.62E-08	5.94E-09	1.56E-10	0.00E+00	6.10E-09
3121	457172.5	3767969	5.354E-08	2.74E-09	0.00E+00	5.63E-08	5.35E-08	2.74E-09	0.00E+00	5.63E-08	1.60E-08	4.94E-10	0.00E+00	1.65E-08	6.07E-09	1.59E-10	0.00E+00	6.23E-09
3122	457176.1	3767960	5.456E-08	2.80E-09	0.00E+00	5.74E-08	5.46E-08	2.80E-09	0.00E+00	5.74E-08	1.63E-08	5.03E-10	0.00E+00	1.68E-08	6.19E-09	1.62E-10	0.00E+00	6.35E-09
3123	457179.7	3767951	5.544E-08	2.84E-09	0.00E+00	5.83E-08	5.54E-08	2.84E-09	0.00E+00	5.83E-08	1.66E-08	5.11E-10	0.00E+00	1.71E-08	6.29E-09	1.65E-10	0.00E+00	6.45E-09
3124	457183.3	3767943	5.616E-08	2.88E-09	0.00E+00	5.90E-08	5.62E-08	2.88E-09	0.00E+00	5.90E-08	1.68E-08	5.18E-10	0.00E+00	1.73E-08	6.37E-09	1.67E-10	0.00E+00	6.54E-09
3125	457187	3767934	5.674E-08	2.91E-09	0.00E+00	5.96E-08	5.67E-08	2.91E-09	0.00E+00	5.96E-08	1.70E-08	5.23E-10	0.00E+00	1.75E-08	6.44E-09	1.69E-10	0.00E+00	6.61E-09
3126	457190.6	3767925	5.716E-08	2.93E-09	0.00E+00	6.01E-08	5.72E-08	2.93E-09	0.00E+00	6.01E-08	1.71E-08	5.27E-10	0.00E+00	1.76E-08	6.48E-09	1.70E-10	0.00E+00	6.65E-09
3127	457194.2	3767916	5.741E-08	2.94E-09	0.00E+00	6.04E-08	5.74E-08	2.94E-09	0.00E+00	6.04E-08	1.72E-08	5.29E-10	0.00E+00	1.77E-08	6.51E-09	1.71E-10	0.00E+00	6.68E-09
3128	457206.7	3767903	5.96E-08	3.06E-09	0.00E+00	6.27E-08	5.96E-08	3.06E-09	0.00E+00	6.27E-08	1.79E-08	5.49E-10	0.00E+00	1.84E-08	6.76E-09	1.77E-10	0.00E+00	6.94E-09
3129	457215.5	3767900	6.158E-08	3.16E-09	0.00E+00	6.47E-08	6.16E-08	3.16E-09	0.00E+00	6.47E-08	1.84E-08	5.68E-10	0.00E+00	1.90E-08	6.99E-09	1.83E-10	0.00E+00	7.17E-09
3130	457224.4	3767896	6.346E-08	3.25E-09	0.00E+00	6.67E-08	6.35E-08	3.25E-09	0.00E+00	6.67E-08	1.90E-08	5.85E-10	0.00E+00	1.96E-08	7.20E-09	1.89E-10	0.00E+00	7.39E-09
3131	457233.3	3767892	6.522E-08	3.34E-09	0.00E+00	6.86E-08	6.52E-08	3.34E-09	0.00E+00	6.86E-08	1.95E-08	6.01E-10	0.00E+00	2.01E-08	7.40E-09	1.94E-10	0.00E+00	7.59E-09
3132	457242.1	3767889	6.687E-08	3.43E-09	0.00E+00	7.03E-08	6.69E-08	3.43E-09	0.00E+00	7.03E-08	2.00E-08	6.16E-10	0.00E+00	2.06E-08	7.59E-09	1.99E-10	0.00E+00	7.79E-09
3133	457251	3767885	6.838E-08	3.51E-09	0.00E+00	7.19E-08	6.84E-08	3.51E-09	0.00E+00	7.19E-08	2.05E-08	6.30E-10	0.00E+00	2.11E-08	7.76E-09	2.03E-10	0.00E+00	7.96E-09

3134	457259.8	3767881	6.972E-08	3.57E-09	0.00E+00	7.33E-08	6.97E-08	3.57E-09	0.00E+00	7.33E-08	2.09E-08	6.43E-10	0.00E+00	2.15E-08	7.91E-09	2.07E-10	0.00E+00	8.12E-09
3135	457268.7	3767877	7.09E-08	3.63E-09	0.00E+00	7.45E-08	7.09E-08	3.63E-09	0.00E+00	7.45E-08	2.12E-08	6.54E-10	0.00E+00	2.19E-08	8.04E-09	2.11E-10	0.00E+00	8.25E-09
3136	457277.6	3767874	7.189E-08	3.69E-09	0.00E+00	7.56E-08	7.19E-08	3.69E-09	0.00E+00	7.56E-08	2.15E-08	6.63E-10	0.00E+00	2.22E-08	8.16E-09	2.14E-10	0.00E+00	8.37E-09
3137	457286.4	3767870	7.271E-08	3.73E-09	0.00E+00	7.64E-08	7.27E-08	3.73E-09	0.00E+00	7.64E-08	2.18E-08	6.70E-10	0.00E+00	2.24E-08	8.25E-09	2.16E-10	0.00E+00	8.47E-09
3138	457147.1	3768032	4.326E-08	2.22E-09	0.00E+00	4.55E-08	4.33E-08	2.22E-09	0.00E+00	4.55E-08	1.30E-08	3.99E-10	0.00E+00	1.34E-08	4.91E-09	1.29E-10	0.00E+00	5.04E-09
3139	457147.2	3768041	4.253E-08	2.18E-09	0.00E+00	4.47E-08	4.25E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.83E-09	1.27E-10	0.00E+00	4.95E-09
3140	457147.3	3768051	4.169E-08	2.14E-09	0.00E+00	4.38E-08	4.17E-08	2.14E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.85E-09
3141	457147.4	3768060	4.075E-08	2.09E-09	0.00E+00	4.28E-08	4.07E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.74E-09
3142	457147.4	3768070	3.972E-08	2.04E-09	0.00E+00	4.18E-08	3.97E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.66E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.62E-09
3143	457147.5	3768080	3.862E-08	1.98E-09	0.00E+00	4.06E-08	3.86E-08	1.98E-09	0.00E+00	4.06E-08	1.16E-08	3.56E-10	0.00E+00	1.19E-08	4.38E-09	1.15E-10	0.00E+00	4.50E-09
3144	457147.6	3768089	3.746E-08	1.92E-09	0.00E+00	3.94E-08	3.75E-08	1.92E-09	0.00E+00	3.94E-08	1.12E-08	3.45E-10	0.00E+00	1.16E-08	4.25E-09	1.11E-10	0.00E+00	4.36E-09
3145	457147.7	3768099	3.625E-08	1.86E-09	0.00E+00	3.81E-08	3.62E-08	1.86E-09	0.00E+00	3.81E-08	1.09E-08	3.34E-10	0.00E+00	1.12E-08	4.11E-09	1.08E-10	0.00E+00	4.22E-09
3146	457147.7	3768108	3.5E-08	1.79E-09	0.00E+00	3.68E-08	3.50E-08	1.79E-09	0.00E+00	3.68E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.08E-09
3147	457147.8	3768118	3.375E-08	1.73E-09	0.00E+00	3.55E-08	3.37E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.00E-10	0.00E+00	3.93E-09
3148	457147.9	3768128	3.247E-08	1.66E-09	0.00E+00	3.41E-08	3.25E-08	1.66E-09	0.00E+00	3.41E-08	9.73E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.66E-11	0.00E+00	3.78E-09
3149	457148	3768137	3.119E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.34E-09	2.87E-10	0.00E+00	9.63E-09	3.54E-09	9.28E-11	0.00E+00	3.63E-09
3150	457148	3768147	2.988E-08	1.53E-09	0.00E+00	3.14E-08	2.99E-08	1.53E-09	0.00E+00	3.14E-08	8.95E-09	2.75E-10	0.00E+00	9.22E-09	3.39E-09	8.89E-11	0.00E+00	3.48E-09
3151	457148.1	3768157	2.859E-08	1.47E-09	0.00E+00	3.01E-08	2.86E-08	1.47E-09	0.00E+00	3.01E-08	8.56E-09	2.64E-10	0.00E+00	8.83E-09	3.24E-09	8.51E-11	0.00E+00	3.33E-09
3152	457148.2	3768166	2.732E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.18E-09	2.52E-10	0.00E+00	8.44E-09	3.10E-09	8.13E-11	0.00E+00	3.18E-09
3153	457148.2	3768176	2.609E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.76E-11	0.00E+00	3.04E-09
3154	457148.3	3768185	2.489E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.46E-09	2.29E-10	0.00E+00	7.69E-09	2.82E-09	7.41E-11	0.00E+00	2.90E-09
3155	457148.4	3768195	2.374E-08	1.22E-09	0.00E+00	2.50E-08	2.37E-08	1.22E-09	0.00E+00	2.50E-08	7.11E-09	2.19E-10	0.00E+00	7.33E-09	2.69E-09	7.07E-11	0.00E+00	2.76E-09
3156	457148.5	3768205	2.265E-08	1.16E-09	0.00E+00	2.38E-08	2.27E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.74E-11	0.00E+00	2.64E-09
3157	457148.5	3768214	2.161E-08	1.11E-09	0.00E+00	2.27E-08	2.16E-08	1.11E-09	0.00E+00	2.27E-08	6.47E-09	1.99E-10	0.00E+00	6.67E-09	2.45E-09	6.43E-11	0.00E+00	2.52E-09
3158	457148.6	3768224	2.062E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.18E-09	1.90E-10	0.00E+00	6.37E-09	2.34E-09	6.14E-11	0.00E+00	2.40E-09
3159	457148.7	3768234	1.968E-08	1.01E-09	0.00E+00	2.07E-08	1.97E-08	1.01E-09	0.00E+00	2.07E-08	5.89E-09	1.81E-10	0.00E+00	6.07E-09	2.23E-09	5.85E-11	0.00E+00	2.29E-09
3160	457125.8	3768023	3.819E-08	1.96E-09	0.00E+00	4.01E-08	3.82E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.45E-09
3161	457129.4	3768014	3.96E-08	2.03E-09	0.00E+00	4.16E-08	3.96E-08	2.03E-09	0.00E+00	4.16E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.61E-09
3162	457133	3768005	4.1E-08	2.10E-09	0.00E+00	4.31E-08	4.10E-08	2.10E-09	0.00E+00	4.31E-08	1.23E-08	3.78E-10	0.00E+00	1.27E-08	4.65E-09	1.22E-10	0.00E+00	4.77E-09
3163	457136.6	3767996	4.235E-08	2.17E-09	0.00E+00	4.45E-08	4.24E-08	2.17E-09	0.00E+00	4.45E-08	1.27E-08	3.90E-10	0.00E+00	1.31E-08	4.80E-09	1.26E-10	0.00E+00	4.93E-09
3164	457140.2	3767987	4.364E-08	2.24E-09	0.00E+00	4.59E-08	4.36E-08	2.24E-09	0.00E+00	4.59E-08	1.31E-08	4.02E-10	0.00E+00	1.35E-08	4.95E-09	1.30E-10	0.00E+00	5.08E-09
3165	457143.9	3767978	4.486E-08	2.30E-09	0.00E+00	4.72E-08	4.49E-08	2.30E-09	0.00E+00	4.72E-08	1.34E-08	4.14E-10	0.00E+00	1.38E-08	5.09E-09	1.33E-10	0.00E+00	5.22E-09
3166	457147.5	3767969	4.6E-08	2.36E-09	0.00E+00	4.84E-08	4.60E-08	2.36E-09	0.00E+00	4.84E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.36E-09
3167	457151.1	3767961	4.704E-08	2.41E-09	0.00E+00	4.95E-08	4.70E-08	2.41E-09	0.00E+00	4.95E-08	1.41E-08	4.34E-10	0.00E+00	1.45E-08	5.34E-09	1.40E-10	0.00E+00	5.48E-09
3168	457154.7	3767952	4.798E-08	2.46E-09	0.00E+00	5.04E-08	4.80E-08	2.46E-09	0.00E+00	5.04E-08	1.44E-08	4.42E-10	0.00E+00	1.48E-08	5.44E-09	1.43E-10	0.00E+00	5.59E-09
3169	457158.3	3767943	4.882E-08	2.50E-09	0.00E+00	5.13E-08	4.88E-08	2.50E-09	0.00E+00	5.13E-08	1.46E-08	4.50E-10	0.00E+00	1.51E-08	5.54E-09	1.45E-10	0.00E+00	5.68E-09
3170	457162	3767934	4.955E-08	2.54E-09	0.00E+00	5.21E-08	4.95E-08	2.54E-09	0.00E+00	5.21E-08	1.48E-08	4.57E-10	0.00E+00	1.53E-08	5.62E-09	1.47E-10	0.00E+00	5.77E-09
3171	457165.6	3767925	5.015E-08	2.57E-09	0.00E+00	5.27E-08	5.02E-08	2.57E-09	0.00E+00	5.27E-08	1.50E-08	4.62E-10	0.00E+00	1.55E-08	5.69E-09	1.49E-10	0.00E+00	5.84E-09
3172	457169.2	3767916	5.061E-08	2.59E-09	0.00E+00	5.32E-08	5.06E-08	2.59E-09	0.00E+00	5.32E-08	1.52E-08	4.66E-10	0.00E+00	1.56E-08	5.74E-09	1.51E-10	0.00E+00	5.89E-09
3173	457172.8	3767907	5.095E-08	2.61E-09	0.00E+00	5.36E-08	5.09E-08	2.61E-09	0.00E+00	5.36E-08	1.53E-08	4.70E-10	0.00E+00	1.57E-08	5.78E-09	1.52E-10	0.00E+00	5.93E-09
3174	457176.4	3767898	5.117E-08	2.62E-09	0.00E+00	5.38E-08	5.12E-08	2.62E-09	0.00E+00	5.38E-08	1.53E-08	4.72E-10	0.00E+00	1.58E-08	5.81E-09	1.52E-10	0.00E+00	5.96E-09
3175	457188.9	3767886	5.309E-08	2.72E-09	0.00E+00	5.58E-08	5.31E-08	2.72E-09	0.00E+00	5.58E-08	1.59E-08	4.89E-10	0.00E+00	1.64E-08	6.02E-09	1.58E-10	0.00E+00	6.18E-09
3176	457197.8	3767882	5.479E-08	2.81E-09	0.00E+00	5.76E-08	5.48E-08	2.81E-09	0.00E+00	5.76E-08	1.64E-08	5.05E-10	0.00E+00	1.69E-08	6.22E-09	1.63E-10	0.00E+00	6.38E-09
3177	457206.6	3767878	5.642E-08	2.89E-09	0.00E+00	5.93E-08	5.64E-08	2.89E-09	0.00E+00	5.93E-08	1.69E-08	5.20E-10	0.00E+00	1.74E-08	6.40E-09	1.68E-10	0.00E+00	6.57E-09
3178	457215.5	3767875	5.797E-08	2.97E-09	0.00E+00	6.09E-08	5.80E-08	2.97E-09	0.00E+00	6.09E-08	1.74E-08	5.34E-10	0.00E+00	1.79E-08	6.58E-09	1.73E-10	0.00E+00	6.75E-09
3179	457224.4	3767871	5.946E-08	3.05E-09	0.00E+00	6.25E-08	5.95E-08	3.05E-09	0.00E+00	6.25E-08	1.78E-08	5.48E-10	0.00E+00	1.84E-08	6.75E-09	1.77E-10	0.00E+00	6.92E-09
3180	457233.2	3767867	6.085E-08	3.12E-09	0.00E+00	6.40E-08	6.09E-08	3.12E-09	0.00E+00	6.40E-08	1.82E-08	5.61E-10	0.00E+00	1.88E-08	6.90E-09	1.81E-10	0.00E+00	7.08E-09
3181	457242.1	3767864	6.211E-08	3.18E-09	0.00E+00	6.53E-08	6.21E-08	3.18E-09	0.00E+00	6.53E-08	1.86E-08	5.73E-10	0.00E+00	1.92E-08	7.05E-09	1.85E-10	0.00E+00	7.23E-09
3182	457250.9	3767860	6.322E-08	3.24E-09	0.00E+00	6.65E-08	6.32E-08	3.24E-09	0.00E+00	6.65E-08	1.89E-08	5.83E-10	0.00E+00	1.95E-08	7.17E-09	1.88E-10	0.00E+00	7.36E-09
3183	457259.8	3767856	6.42E-08	3.29E-09	0.00E+00	6.75E-08	6.42E-08	3.29E-09	0.00E+00	6.75E-08	1.92E-08	5.92E-10	0.00E+00	1.98E-08	7.28E-09	1.91E-10	0.00E+00	7.47E-09
3184	457268.7	3767852	6.505E-08	3.33E-09	0.00E+00	6.84E-08	6.51E-08	3.33E-09	0.00E+00	6.84E-08	1.95E-08	6.00E-10	0.00E+00	2.01E-08	7.38E-09	1.94E-10	0.00E+00	7.57E-09
3185	457277.5	3767849	6.574E-08	3.37E-09	0.00E+00	6.91E-08	6.57E-08	3.37E-09	0.00E+00	6.91E-08	1.97E-08	6.06E-10	0.00E+00	2.03E-08	7.46E-09	1.96E-10	0.00E+00	7.65E-09
3186	457286.4	3767845	6.627E-08	3.40E-09	0.00E+00	6.97E-08	6.63E-08	3.40E-09	0.00E+00	6.97E-08	1.98E-08	6.11E-10	0.00E+00	2.05E-08	7.52E-09	1.97E-10	0.00E+00	7.72E-09
3187	457122.1	3768032	3.676E-08	1.88E-09	0.00E+00	3.86E-08	3.68E-08	1.88E-09	0.00E+00	3.86E-08	1.10E-08	3.39E-10	0.00E+00	1.13E-08	4.17E-09	1.09E-10	0.00E+00	4.28E-09
3188	457122.2	3768041	3.608E-08	1.85E-09	0.00E+00	3.79E-08	3.61E-08	1.85E-09	0.00E+00	3.79E-08	1.08E-08	3.33E-10	0.00E+00	1.11E-08	4.09E-09	1.07E-10	0.00E+00	4.20E-09
3189	457122.3	3768051	3.533E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.26E-10	0.00E+00	1.09E-08	4.01E-09	1.05E-10	0.00E+00	4.11E-09
3190	457122.4	3768061	3.45E-08	1.77E-09	0.00E+00	3.63E-08	3.45E-08	1.77E-09	0.00E+00	3.63E-08	1.03E-08	3.18E-10	0.00E+00	1.07E-08	3.91E-09	1.03E-10	0.00E+00	4.02E-09
3191	457122.4	3768070	3.363E-08	1.72E-09	0.00E+00	3.53E-08	3.36E-08	1.72E-09	0.00E+00	3.53E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.81E-09	1.00E-10	0.00E+00	3.91E-09
3192	457122.5	3768080	3.27E-08	1.68E-09	0.00E+00	3.44E-08	3.27E-08	1.68E-09	0.00E+00	3.44E-08	9.79E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.73E-11	0.00E+00	3.81E-09
3193	457122.6	3768089	3.174E-08	1.63E-09	0.00E+00	3.34E-08	3.17E-08	1.63E-09	0.00E+00	3.34E-08	9.51E-09	2.93E-10	0.00E+00	9.80E-09	3.60E-09	9.45E-11	0.00E+00	3.70E-09
3194	457122.7	3768099	3.075E-08	1.58E-09	0.00E+00	3.23E-08	3.07E-08	1.58E-09	0.00E+00	3.23E-08	9.21E-09	2.83E-10	0.00E+00	9.49E-09	3.49E-09	9.15E-11	0.00E+00	3.58E-09
3195	457122.7	3768109	2.974E-08	1.52E-09	0.00E+00	3.13E-08	2.97E-08	1.52E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.18E-09	3.37E-09	8.85E-11	0.00E+00	3.46E-09
3196	457122.8	3768118	2.873E-08	1.47E-09	0.00E+00	3.02E-08	2.87E-08	1.47E-09	0.00E+00	3.02E-08	8.60E-09	2.65E-10	0.00E+00	8.87E-09	3.26E-09	8.55E-11	0.00E+00	3.34E-09
3197	457122.9	3768128	2.771E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.30E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.23E-09
3198	457123	3768138	2.668E-08	1.37E-09	0.00E+00	2.80E-08	2.67E-08	1.37E-09	0.00E+00	2.80E-08	7.99E-09	2.46E-10	0.00E+00	8.24E-09	3.03E-09	7.94E-11	0.00E+00	3.11E-09
3199	457123	3768147	2.565E-08	1.31E-09	0.00E+00	2.70E-08	2.56E-08	1.31E-09	0.00E+00	2.70E-08	7.68E-09	2.36E-10	0.00E+00	7.92E-09	2.91E-09	7.63E-11	0.00E+00	2.99E-09
3200	457123.1	3768157	2.462E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.38E-09	2.27E-10	0.00E+00	7.60E-09	2.79E-09	7.33E-11	0.00E+00	2.87E-09
3201	457123.2	3768166	2.362E-08	1.21E-09	0.00E+00	2.48E-08	2.36E-08	1.21E-09	0.00E+00	2.48E-08	7.08E-09	2.18E-10	0.00E+00	7.29E-09	2.68E-09	7.03E-11	0.00E+00	2.75E-09
3202	457123.2	3768176	2.264E-08	1.16E-09	0.00E+00	2.38E-08	2.26E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.74E-11	0.00E+00	2.64E-09
3203	457123.3	3768186	2.17E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.50E-09	2.00E-10	0.00E+00	6.70E-09	2.46E-09	6.46E-11	0.00E+00	2.53E-09
3204	457123.4	3768195	2.078E-08	1.07E-09	0.00E+00	2.18E-08	2.08E-08	1.07E-09	0.00E+00	2.18E-08	6.22E-09	1.92E-10	0.00E+00	6.42E-09	2.36E-09	6.18E-11	0.00E+00	2.42E-09
3205	457123.5	3768205	1.991E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.96E-09	1.84E-10	0.00E+00	6.15E-09	2.26E-09	5.92E-11	0.00E+00	2.32E-09
3206	457123.5	3768214	1.908E-08	9.78E-10	0.00E+00	2.01E-08	1.91E-08	9.78E-10	0.00E+00	2.01E-08	5.71E-09	1.76E-10	0.00E+00	5.89E-09	2.16E-09	5.68E-11	0.00E+00	2.22E-09
3207	457123.6	3768224	1.828E-08	9.37E-10	0.00E+00	1.92E-08	1.83E-08	9.37E-10	0.00E+00	1.92E-08	5.47E-09	1.68E-10	0.00E+00	5.64E-09	2.07E-09	5.44E-11	0.00E+00	2.13E-09
3208	457123.7	3768234	1.751E-08	8.98E-10	0.00E+00	1.84E-08	1.75E-08	8.98E-10	0.00E+00	1.84E-08	5.24E-09	1.61E-10	0.00E+00	5.41E-09	1.99E-09	5.21E-11	0.00E+00	2.04E-09
3209	457100.8	3768023	3.284E-08	1.68E-09	0.00E+00	3.45E-08	3.28E-08	1.68E-09	0.00E+00	3.45E-08	9.84E-09	3.03E-10	0.00E+00	1.01E-08	3.73E-09	9.77E-11	0.00E+00	3.82E-09
3210	457104.4	3768014	3.406E-08	1.75E-09	0.00E+00	3.58E-08	3.41E-08	1.75E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.97E-09
3211	457108	3768005	3.527E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.11E-09
3212	457111.6	3767996	3.646E-08	1.87E-09	0.00E+00	3.83E-08	3.65E-08	1.87E-09	0.00E+00	3.83E-08	1.09E-08	3.36E-10	0.00E+00	1.13E-08	4.14E-09	1.08E-10	0.00E+00	4.24E-09
3213	457115.2	3767987	3.761E-08	1.93E-09	0.00E+00	3.95E-08	3.76E-08	1.93E-09	0.00E+00	3.95E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.38E-09
3214	457118.9	3767979	3.872E-08	1.99E-09	0.00E+00	4.07E-08	3.87E-08	1.99E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.20E-08	4.39E-09	1.15E-10	0.00E+00	4.51E-09
3215	457122.5	3767970	3.978E-08	2.04E-09	0.00E+00	4.18E-08	3.98E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
3216	457126.1	3767961	4.078E-08	2.09E-09	0.00E+00	4.29E-08	4.08E-08	2.09E-09	0.00E+00	4.29E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.63E-09	1.21E-10	0.00E+00	4.75E-09
3217	457129.7	3767952	4.17E-08	2.14E-09	0.00E+00	4.38E-08	4.17E-08	2.14E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.86E-09
3218	457133.3	3767943	4.254E-08	2.18E-09	0.00E+00	4.47E-08	4.25E-08	2.18E-09	0.00E+00	4.47E-08	1.27E-08	3.92E-10	0.00E+00	1.31E-08	4.83E-09	1.27E-10	0.00E+00	4.95E-09
3219	457137	3767934	4.332E-08	2.22E-09	0.00E+00	4.55E-08	4.33E-08	2.22E-09	0.00E+00	4.55E-08	1.30E-08	3.99E-10	0.00E+00	1.34E-08	4.91E-09	1.29E-10	0.00E+00	5.04E-09
3220	457140.6	3767925	4.401E-08	2.26E-09	0.00E+00	4.63E-08	4.40E-08	2.26E-09	0.00E+00	4.63E-08	1.32E-08	4.06E-10	0.00E+00	1.36E-08	4.99E-09	1.31E-10	0.00E+00	5.12E-09
3221	457144.2	3767916	4.461E-08	2.29E-09	0.00E+00	4.69E-08	4.46E-08	2.29E-09	0.00E+00	4.69E-08	1.34E-08	4.11E-10	0.00E+00	1.38E-08	5.06E-09	1.33E-10	0.00E+00	5.19E-09
3222	457147.8	3767907	4.51E-08	2.31E-09	0.00E+00	4.74E-08	4.51E-08	2.31E-09	0.00E+00	4.74E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.12E-09	1.34E-10	0.00E+00	5.25E-09
3223	457151.4	3767899	4.55E-08	2.33E-09	0.00E+00	4.78E-08	4.55E-08	2.33E-09	0.00E+00	4.78E-08	1.36E-08	4.19E-10	0.00E+00	1.40E-08	5.16E-09	1.35E-10	0.00E+00	5.30E-09
3224	457155.1	3767890	4.583E-08	2.35E-09	0.00E+00	4.82E-08	4.58E-08	2.35E-09	0.00E+00	4.82E-08	1.37E-08	4.23E-10	0.00E+00	1.42E-08	5.20E-09	1.36E-10	0.00E+00	5.34E-09
3225	457158.7	3767881	4.609E-08	2.36E-09	0.00E+00	4.85E-08	4.61E-08	2.36E-09	0.00E+00	4.85E-08	1.38E-08	4.25E-10	0.00E+00	1.42E-08	5.23E-09	1.37E-10	0.00E+00	5.37E-09
3226	457171.2	3767868	4.775E-08	2.45E-09	0.00E+00	5.02E-08	4.77E-08	2.45E-09	0.00E+00	5.02E-08	1.43E-08	4.40E-10	0.00E+00	1.47E-08	5.42E-09	1.42E-10	0.00E+00	5.56E-09
3227	457180	3767864	4.92E-08	2.52E-09	0.00E+00	5.17E-08	4.92E-08	2.52E-09	0.00E+00	5.17E-08	1.47E-08	4.54E-10	0.00E+00	1.52E-08	5.58E-09	1.46E-10	0.00E+00	5.73E-09
3228	457188.9	3767861	5.061E-08	2.59E-09	0.00E+00	5.32E-08	5.06E-08	2.59E-09	0.00E+00	5.32E-08	1.52E-08	4.67E-10	0.00E+00	1.56E-08	5.74E-09	1.51E-10	0.00E+00	5.89E-09
3229	457197.7	3767857	5.197E-08	2.66E-09	0.00E+00	5.46E-08	5.20E-08	2.66E-09	0.00E+00	5.46E-08	1.56E-08	4.79E-10	0.00E+00	1.60E-08	5.90E-09	1.55E-10	0.00E+00	6.05E-09
3230	457206.6	3767853	5.326E-08	2.73E-09	0.00E+00	5.60E-08	5.33E-08	2.73E-09	0.00E+00	5.60E-08	1.60E-08	4.91E-10	0.00E+00	1.64E-08	6.04E-09	1.58E-10	0.00E+00	6.20E-09
3231	457215.5	3767850	5.449E-08	2.79E-09	0.00E+00	5.73E-08	5.45E-08	2.79E-09	0.00E+00	5.73E-08	1.63E-08	5.02E-10	0.00E+00	1.68E-08	6.18E-09	1.62E-10	0.00E+00	6.34E-09
3232	457224.3	3767846	5.563E-08	2.85E-09	0.00E+00	5.85E-08	5.56E-08	2.85E-09	0.00E+00	5.85E-08	1.67E-08	5.13E-10	0.00E+00	1.72E-08	6.31E-09	1.66E-10	0.00E+00	6.48E-09
3233	457233.2	3767842	5.666E-08	2.90E-09	0.00E+00	5.96E-08	5.67E-08	2.90E-09	0.00E+00	5.96E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.43E-09	1.69E-10	0.00E+00	6.60E-09
3234	457242	3767839	5.759E-08	2.95E-09	0.00E+00	6.05E-08	5.76E-08	2.95E-09	0.00E+00	6.05E-08	1.72E-08	5.31E-10	0.00E+00	1.78E-08	6.53E-09	1.71E-10	0.00E+00	6.70E-09
3235	457250.9	3767835	5.844E-08	3.00E-09	0.00E+00	6.14E-08	5.84E-08	3.00E-09	0.00E+00	6.14E-08	1.75E-08	5.39E-10	0.00E+00	1.80E-08	6.63E-09	1.74E-10	0.00E+00	6.80E-09
3236	457259.8	3767831	5.917E-08	3.03E-09	0.00E+00	6.22E-08	5.92E-08	3.03E-09	0.00E+00	6.22E-08	1.77E-08	5.45E-10	0.00E+00	1.83E-08	6.71E-09	1.76E-10	0.00E+00	6.89E-09
3237	457268.6	3767827	5.977E-08	3.06E-09	0.00E+00	6.28E-08	5.98E-08	3.06E-09	0.00E+00	6.28E-08	1.79E-08	5.51E-10	0.00E+00	1.85E-08	6.78E-09	1.78E-10	0.00E+00	6.96E-09
3238	457277.5	3767824	6.022E-08	3.09E-09	0.00E+00	6.33E-08	6.02E-08	3.09E-09	0.00E+00	6.33E-08	1.80E-08	5.55E-10	0.00E+00	1.86E-08	6.83E-09	1.79E-10	0.00E+00	7.01E-09
3239	457286.3	3767820	6.056E-08	3.10E-09	0.00E+00	6.37E-08	6.06E-08	3.10E-09	0.00E+00	6.37E-08	1.81E-08	5.58E-10	0.00E+00	1.87E-08	6.87E-09	1.80E-10	0.00E+00	7.05E-09
3240	457097.1	3768032	3.161E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.47E-09	2.91E-10	0.00E+00	9.76E-09	3.59E-09	9.41E-11	0.00E+00	3.68E-09
3241	457097.2	3768042	3.098E-08	1.59E-09	0.00E+00	3.26E-08	3.10E-08	1.59E-09	0.00E+00	3.26E-08	9.28E-09	2.86E-10	0.00E+00	9.56E-09	3.51E-09	9.22E-11	0.00E+00	3.61E-09
3242	457097.3	3768051	3.032E-08	1.55E-09	0.00E+00	3.19E-08	3.03E-08	1.55E-09	0.00E+00	3.19E-08	9.08E-09	2.79E-10	0.00E+00	9.36E-09	3.44E-09	9.02E-11	0.00E+00	3.53E-09
3243	457097.4	3768061	2.962E-08	1.52E-09	0.00E+00	3.11E-08	2.96E-08	1.52E-09	0.00E+00	3.11E-08	8.87E-09	2.73E-10	0.00E+00	9.14E-09	3.36E-09	8.81E-11	0.00E+00	3.45E-09
3244	457097.4	3768070	2.889E-08	1.48E-09	0.00E+00	3.04E-08	2.89E-08	1.48E-09	0.00E+00	3.04E-08	8.65E-09	2.66E-10	0.00E+00	8.92E-09	3.28E-09	8.60E-11	0.00E+00	3.36E-09
3245	457097.5	3768080	2.812E-08	1.44E-09	0.00E+00	2.96E-08	2.81E-08	1.44E-09	0.00E+00	2.96E-08	8.42E-09	2.59E-10	0.00E+00	8.68E-09	3.19E-09	8.37E-11	0.00E+00	3.27E-09

3246	457097.6	3768090	2.731E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.18E-09	2.52E-10	0.00E+00	8.43E-09	3.10E-09	8.13E-11	0.00E+00	3.18E-09
3247	457097.7	3768099	2.649E-08	1.36E-09	0.00E+00	2.79E-08	2.65E-08	1.36E-09	0.00E+00	2.79E-08	7.94E-09	2.44E-10	0.00E+00	8.18E-09	3.01E-09	7.88E-11	0.00E+00	3.08E-09
3248	457097.7	3768109	2.566E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.69E-09	2.37E-10	0.00E+00	7.92E-09	2.91E-09	7.64E-11	0.00E+00	2.99E-09
3249	457097.8	3768118	2.482E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.43E-09	2.29E-10	0.00E+00	7.66E-09	2.82E-09	7.39E-11	0.00E+00	2.89E-09
3250	457097.9	3768128	2.398E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.18E-09	2.21E-10	0.00E+00	7.40E-09	2.72E-09	7.14E-11	0.00E+00	2.79E-09
3251	457098	3768138	2.315E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.93E-09	2.13E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.69E-09
3252	457098	3768147	2.232E-08	1.14E-09	0.00E+00	2.35E-08	2.23E-08	1.14E-09	0.00E+00	2.35E-08	6.68E-09	2.06E-10	0.00E+00	6.89E-09	2.53E-09	6.64E-11	0.00E+00	2.60E-09
3253	457098.1	3768157	2.151E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.64E-09	2.44E-09	6.40E-11	0.00E+00	2.50E-09
3254	457098.2	3768167	2.07E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.20E-09	1.91E-10	0.00E+00	6.39E-09	2.35E-09	6.16E-11	0.00E+00	2.41E-09
3255	457098.2	3768176	1.991E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.96E-09	1.84E-10	0.00E+00	6.15E-09	2.26E-09	5.93E-11	0.00E+00	2.32E-09
3256	457098.3	3768186	1.914E-08	9.81E-10	0.00E+00	2.01E-08	1.91E-08	9.81E-10	0.00E+00	2.01E-08	5.73E-09	1.76E-10	0.00E+00	5.91E-09	2.17E-09	5.70E-11	0.00E+00	2.23E-09
3257	457098.4	3768195	1.84E-08	9.43E-10	0.00E+00	1.93E-08	1.84E-08	9.43E-10	0.00E+00	1.93E-08	5.51E-09	1.70E-10	0.00E+00	5.68E-09	2.09E-09	5.48E-11	0.00E+00	2.14E-09
3258	457098.5	3768205	1.769E-08	9.07E-10	0.00E+00	1.86E-08	1.77E-08	9.07E-10	0.00E+00	1.86E-08	5.30E-09	1.63E-10	0.00E+00	5.46E-09	2.01E-09	5.26E-11	0.00E+00	2.06E-09
3259	457098.5	3768215	1.701E-08	8.72E-10	0.00E+00	1.79E-08	1.70E-08	8.72E-10	0.00E+00	1.79E-08	5.09E-09	1.57E-10	0.00E+00	5.25E-09	1.93E-09	5.06E-11	0.00E+00	1.98E-09
3260	457098.6	3768224	1.635E-08	8.38E-10	0.00E+00	1.72E-08	1.64E-08	8.38E-10	0.00E+00	1.72E-08	4.90E-09	1.51E-10	0.00E+00	5.05E-09	1.85E-09	4.87E-11	0.00E+00	1.90E-09
3261	457098.7	3768234	1.572E-08	8.06E-10	0.00E+00	1.65E-08	1.57E-08	8.06E-10	0.00E+00	1.65E-08	4.71E-09	1.45E-10	0.00E+00	4.85E-09	1.78E-09	4.68E-11	0.00E+00	1.83E-09
3262	457075.8	3768023	2.855E-08	1.46E-09	0.00E+00	3.00E-08	2.86E-08	1.46E-09	0.00E+00	3.00E-08	8.55E-09	2.63E-10	0.00E+00	8.81E-09	3.24E-09	8.50E-11	0.00E+00	3.32E-09
3263	457079.4	3768014	2.96E-08	1.52E-09	0.00E+00	3.11E-08	2.96E-08	1.52E-09	0.00E+00	3.11E-08	8.87E-09	2.73E-10	0.00E+00	9.14E-09	3.36E-09	8.81E-11	0.00E+00	3.45E-09
3264	457083	3768005	3.065E-08	1.57E-09	0.00E+00	3.22E-08	3.06E-08	1.57E-09	0.00E+00	3.22E-08	9.18E-09	2.82E-10	0.00E+00	9.46E-09	3.48E-09	9.12E-11	0.00E+00	3.57E-09
3265	457086.6	3767997	3.168E-08	1.62E-09	0.00E+00	3.33E-08	3.17E-08	1.62E-09	0.00E+00	3.33E-08	9.49E-09	2.92E-10	0.00E+00	9.78E-09	3.59E-09	9.43E-11	0.00E+00	3.69E-09
3266	457090.2	3767988	3.27E-08	1.68E-09	0.00E+00	3.44E-08	3.27E-08	1.68E-09	0.00E+00	3.44E-08	9.79E-09	3.01E-10	0.00E+00	1.01E-08	3.71E-09	9.73E-11	0.00E+00	3.81E-09
3267	457093.9	3767979	3.369E-08	1.73E-09	0.00E+00	3.54E-08	3.37E-08	1.73E-09	0.00E+00	3.54E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.82E-09	1.00E-10	0.00E+00	3.92E-09
3268	457097.5	3767970	3.465E-08	1.78E-09	0.00E+00	3.64E-08	3.46E-08	1.78E-09	0.00E+00	3.64E-08	1.04E-08	3.19E-10	0.00E+00	1.07E-08	3.93E-09	1.03E-10	0.00E+00	4.03E-09
3269	457101.1	3767961	3.557E-08	1.82E-09	0.00E+00	3.74E-08	3.56E-08	1.82E-09	0.00E+00	3.74E-08	1.07E-08	3.28E-10	0.00E+00	1.10E-08	4.04E-09	1.06E-10	0.00E+00	4.14E-09
3270	457104.7	3767952	3.644E-08	1.87E-09	0.00E+00	3.83E-08	3.64E-08	1.87E-09	0.00E+00	3.83E-08	1.09E-08	3.36E-10	0.00E+00	1.13E-08	4.13E-09	1.08E-10	0.00E+00	4.24E-09
3271	457108.3	3767943	3.725E-08	1.91E-09	0.00E+00	3.92E-08	3.72E-08	1.91E-09	0.00E+00	3.92E-08	1.12E-08	3.43E-10	0.00E+00	1.15E-08	4.23E-09	1.11E-10	0.00E+00	4.34E-09
3272	457112	3767934	3.799E-08	1.95E-09	0.00E+00	3.99E-08	3.80E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
3273	457115.6	3767925	3.868E-08	1.98E-09	0.00E+00	4.07E-08	3.87E-08	1.98E-09	0.00E+00	4.07E-08	1.16E-08	3.57E-10	0.00E+00	1.19E-08	4.39E-09	1.15E-10	0.00E+00	4.50E-09
3274	457119.2	3767916	3.934E-08	2.02E-09	0.00E+00	4.14E-08	3.93E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.21E-08	4.46E-09	1.17E-10	0.00E+00	4.58E-09
3275	457122.8	3767908	3.993E-08	2.05E-09	0.00E+00	4.20E-08	3.99E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.68E-10	0.00E+00	1.23E-08	4.53E-09	1.19E-10	0.00E+00	4.65E-09
3276	457126.4	3767899	4.044E-08	2.07E-09	0.00E+00	4.25E-08	4.04E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
3277	457130.1	3767890	4.089E-08	2.10E-09	0.00E+00	4.30E-08	4.09E-08	2.10E-09	0.00E+00	4.30E-08	1.22E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.76E-09
3278	457133.7	3767881	4.127E-08	2.12E-09	0.00E+00	4.34E-08	4.13E-08	2.12E-09	0.00E+00	4.34E-08	1.24E-08	3.80E-10	0.00E+00	1.27E-08	4.68E-09	1.23E-10	0.00E+00	4.80E-09
3279	457137.3	3767872	4.158E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.25E-08	3.83E-10	0.00E+00	1.28E-08	4.72E-09	1.24E-10	0.00E+00	4.84E-09
3280	457140.9	3767863	4.181E-08	2.14E-09	0.00E+00	4.40E-08	4.18E-08	2.14E-09	0.00E+00	4.40E-08	1.25E-08	3.85E-10	0.00E+00	1.29E-08	4.74E-09	1.24E-10	0.00E+00	4.87E-09
3281	457153.4	3767851	4.327E-08	2.22E-09	0.00E+00	4.55E-08	4.33E-08	2.22E-09	0.00E+00	4.55E-08	1.30E-08	3.99E-10	0.00E+00	1.34E-08	4.91E-09	1.29E-10	0.00E+00	5.04E-09
3282	457162.3	3767847	4.454E-08	2.28E-09	0.00E+00	4.68E-08	4.45E-08	2.28E-09	0.00E+00	4.68E-08	1.33E-08	4.11E-10	0.00E+00	1.37E-08	5.05E-09	1.33E-10	0.00E+00	5.19E-09
3283	457171.1	3767843	4.577E-08	2.35E-09	0.00E+00	4.81E-08	4.58E-08	2.35E-09	0.00E+00	4.81E-08	1.37E-08	4.22E-10	0.00E+00	1.41E-08	5.19E-09	1.36E-10	0.00E+00	5.33E-09
3284	457180	3767839	4.697E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.33E-09	1.40E-10	0.00E+00	5.47E-09
3285	457188.8	3767836	4.811E-08	2.47E-09	0.00E+00	5.06E-08	4.81E-08	2.47E-09	0.00E+00	5.06E-08	1.44E-08	4.44E-10	0.00E+00	1.49E-08	5.46E-09	1.43E-10	0.00E+00	5.60E-09
3286	457197.7	3767832	4.92E-08	2.52E-09	0.00E+00	5.17E-08	4.92E-08	2.52E-09	0.00E+00	5.17E-08	1.47E-08	4.54E-10	0.00E+00	1.52E-08	5.58E-09	1.46E-10	0.00E+00	5.73E-09
3287	457206.6	3767828	5.023E-08	2.57E-09	0.00E+00	5.28E-08	5.02E-08	2.57E-09	0.00E+00	5.28E-08	1.50E-08	4.63E-10	0.00E+00	1.55E-08	5.70E-09	1.49E-10	0.00E+00	5.85E-09
3288	457215.4	3767825	5.117E-08	2.62E-09	0.00E+00	5.38E-08	5.12E-08	2.62E-09	0.00E+00	5.38E-08	1.53E-08	4.72E-10	0.00E+00	1.58E-08	5.81E-09	1.52E-10	0.00E+00	5.96E-09
3289	457224.3	3767821	5.204E-08	2.67E-09	0.00E+00	5.47E-08	5.20E-08	2.67E-09	0.00E+00	5.47E-08	1.56E-08	4.80E-10	0.00E+00	1.61E-08	5.90E-09	1.55E-10	0.00E+00	6.06E-09
3290	457233.1	3767817	5.283E-08	2.71E-09	0.00E+00	5.55E-08	5.28E-08	2.71E-09	0.00E+00	5.55E-08	1.58E-08	4.87E-10	0.00E+00	1.63E-08	5.99E-09	1.57E-10	0.00E+00	6.15E-09
3291	457242	3767814	5.352E-08	2.74E-09	0.00E+00	5.63E-08	5.35E-08	2.74E-09	0.00E+00	5.63E-08	1.60E-08	4.93E-10	0.00E+00	1.65E-08	6.07E-09	1.59E-10	0.00E+00	6.23E-09
3292	457250.9	3767810	5.411E-08	2.77E-09	0.00E+00	5.69E-08	5.41E-08	2.77E-09	0.00E+00	5.69E-08	1.62E-08	4.99E-10	0.00E+00	1.67E-08	6.14E-09	1.61E-10	0.00E+00	6.30E-09
3293	457259.7	3767806	5.459E-08	2.80E-09	0.00E+00	5.74E-08	5.46E-08	2.80E-09	0.00E+00	5.74E-08	1.64E-08	5.03E-10	0.00E+00	1.69E-08	6.19E-09	1.62E-10	0.00E+00	6.36E-09
3294	457268.6	3767802	5.498E-08	2.82E-09	0.00E+00	5.78E-08	5.50E-08	2.82E-09	0.00E+00	5.78E-08	1.65E-08	5.07E-10	0.00E+00	1.70E-08	6.24E-09	1.64E-10	0.00E+00	6.40E-09
3295	457277.4	3767799	5.53E-08	2.84E-09	0.00E+00	5.81E-08	5.53E-08	2.84E-09	0.00E+00	5.81E-08	1.66E-08	5.10E-10	0.00E+00	1.71E-08	6.27E-09	1.65E-10	0.00E+00	6.44E-09
3296	457286.3	3767795	5.552E-08	2.85E-09	0.00E+00	5.84E-08	5.55E-08	2.85E-09	0.00E+00	5.84E-08	1.66E-08	5.12E-10	0.00E+00	1.71E-08	6.30E-09	1.65E-10	0.00E+00	6.46E-09
3297	457072.1	3768032	2.75E-08	1.41E-09	0.00E+00	2.89E-08	2.75E-08	1.41E-09	0.00E+00	2.89E-08	8.24E-09	2.54E-10	0.00E+00	8.49E-09	3.12E-09	8.18E-11	0.00E+00	3.20E-09
3298	457072.2	3768042	2.694E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.07E-09	2.48E-10	0.00E+00	8.32E-09	3.06E-09	8.02E-11	0.00E+00	3.14E-09
3299	457072.3	3768051	2.636E-08	1.35E-09	0.00E+00	2.77E-08	2.64E-08	1.35E-09	0.00E+00	2.77E-08	7.89E-09	2.43E-10	0.00E+00	8.14E-09	2.99E-09	7.84E-11	0.00E+00	3.07E-09
3300	457072.4	3768061	2.576E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.72E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.67E-11	0.00E+00	3.00E-09
3301	457072.4	3768071	2.514E-08	1.29E-09	0.00E+00	2.64E-08	2.51E-08	1.29E-09	0.00E+00	2.64E-08	7.53E-09	2.32E-10	0.00E+00	7.76E-09	2.85E-09	7.48E-11	0.00E+00	2.93E-09
3302	457072.5	3768080	2.449E-08	1.26E-09	0.00E+00	2.57E-08	2.45E-08	1.26E-09	0.00E+00	2.57E-08	7.33E-09	2.26E-10	0.00E+00	7.56E-09	2.78E-09	7.29E-11	0.00E+00	2.85E-09
3303	457072.6	3768090	2.381E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.20E-10	0.00E+00	7.35E-09	2.70E-09	7.09E-11	0.00E+00	2.77E-09
3304	457072.7	3768099	2.313E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.93E-09	2.13E-10	0.00E+00	7.14E-09	2.62E-09	6.88E-11	0.00E+00	2.69E-09
3305	457072.7	3768109	2.243E-08	1.15E-09	0.00E+00	2.36E-08	2.24E-08	1.15E-09	0.00E+00	2.36E-08	6.72E-09	2.07E-10	0.00E+00	6.93E-09	2.55E-09	6.68E-11	0.00E+00	2.61E-09
3306	457072.8	3768119	2.174E-08	1.11E-09	0.00E+00	2.29E-08	2.17E-08	1.11E-09	0.00E+00	2.29E-08	6.51E-09	2.00E-10	0.00E+00	6.71E-09	2.47E-09	6.47E-11	0.00E+00	2.53E-09
3307	457072.9	3768128	2.104E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.30E-09	1.94E-10	0.00E+00	6.50E-09	2.39E-09	6.26E-11	0.00E+00	2.45E-09
3308	457073	3768138	2.035E-08	1.04E-09	0.00E+00	2.14E-08	2.03E-08	1.04E-09	0.00E+00	2.14E-08	6.09E-09	1.88E-10	0.00E+00	6.28E-09	2.31E-09	6.05E-11	0.00E+00	2.37E-09
3309	457073	3768148	1.967E-08	1.01E-09	0.00E+00	2.07E-08	1.97E-08	1.01E-09	0.00E+00	2.07E-08	5.89E-09	1.81E-10	0.00E+00	6.07E-09	2.23E-09	5.85E-11	0.00E+00	2.29E-09
3310	457073.1	3768157	1.9E-08	9.74E-10	0.00E+00	2.00E-08	1.90E-08	9.74E-10	0.00E+00	2.00E-08	5.69E-09	1.75E-10	0.00E+00	5.87E-09	2.16E-09	5.66E-11	0.00E+00	2.21E-09
3311	457073.2	3768167	1.835E-08	9.41E-10	0.00E+00	1.93E-08	1.83E-08	9.41E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.66E-09	2.08E-09	5.46E-11	0.00E+00	2.14E-09
3312	457073.2	3768176	1.77E-08	9.07E-10	0.00E+00	1.86E-08	1.77E-08	9.07E-10	0.00E+00	1.86E-08	5.30E-09	1.63E-10	0.00E+00	5.46E-09	2.01E-09	5.27E-11	0.00E+00	2.06E-09
3313	457073.3	3768186	1.706E-08	8.75E-10	0.00E+00	1.79E-08	1.71E-08	8.75E-10	0.00E+00	1.79E-08	5.11E-09	1.57E-10	0.00E+00	5.27E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
3314	457073.4	3768196	1.645E-08	8.43E-10	0.00E+00	1.73E-08	1.64E-08	8.43E-10	0.00E+00	1.73E-08	4.93E-09	1.52E-10	0.00E+00	5.08E-09	1.87E-09	4.89E-11	0.00E+00	1.91E-09
3315	457073.5	3768205	1.586E-08	8.13E-10	0.00E+00	1.67E-08	1.59E-08	8.13E-10	0.00E+00	1.67E-08	4.75E-09	1.46E-10	0.00E+00	4.90E-09	1.80E-09	4.72E-11	0.00E+00	1.85E-09
3316	457073.5	3768215	1.528E-08	7.84E-10	0.00E+00	1.61E-08	1.53E-08	7.84E-10	0.00E+00	1.61E-08	4.58E-09	1.41E-10	0.00E+00	4.72E-09	1.73E-09	4.55E-11	0.00E+00	1.78E-09
3317	457073.6	3768224	1.473E-08	7.55E-10	0.00E+00	1.55E-08	1.47E-08	7.55E-10	0.00E+00	1.55E-08	4.41E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.38E-11	0.00E+00	1.72E-09
3318	457073.7	3768234	1.421E-08	7.28E-10	0.00E+00	1.49E-08	1.42E-08	7.28E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.39E-09	1.61E-09	4.23E-11	0.00E+00	1.65E-09
3319	457050.8	3768023	2.507E-08	1.29E-09	0.00E+00	2.64E-08	2.51E-08	1.29E-09	0.00E+00	2.64E-08	7.51E-09	2.31E-10	0.00E+00	7.74E-09	2.84E-09	7.46E-11	0.00E+00	2.92E-09
3320	457054.4	3768015	2.597E-08	1.33E-09	0.00E+00	2.73E-08	2.60E-08	1.33E-09	0.00E+00	2.73E-08	7.78E-09	2.39E-10	0.00E+00	8.02E-09	2.95E-09	7.73E-11	0.00E+00	3.02E-09
3321	457058	3768006	2.687E-08	1.38E-09	0.00E+00	2.82E-08	2.69E-08	1.38E-09	0.00E+00	2.82E-08	8.05E-09	2.48E-10	0.00E+00	8.30E-09	3.05E-09	8.00E-11	0.00E+00	3.13E-09
3322	457061.6	3767997	2.777E-08	1.42E-09	0.00E+00	2.92E-08	2.78E-08	1.42E-09	0.00E+00	2.92E-08	8.32E-09	2.56E-10	0.00E+00	8.57E-09	3.15E-09	8.26E-11	0.00E+00	3.23E-09
3323	457065.2	3767988	2.866E-08	1.47E-09	0.00E+00	3.01E-08	2.87E-08	1.47E-09	0.00E+00	3.01E-08	8.58E-09	2.64E-10	0.00E+00	8.85E-09	3.25E-09	8.53E-11	0.00E+00	3.34E-09
3324	457068.9	3767979	2.953E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.84E-09	2.72E-10	0.00E+00	9.12E-09	3.35E-09	8.79E-11	0.00E+00	3.44E-09
3325	457072.5	3767970	3.038E-08	1.56E-09	0.00E+00	3.19E-08	3.04E-08	1.56E-09	0.00E+00	3.19E-08	9.10E-09	2.80E-10	0.00E+00	9.38E-09	3.45E-09	9.04E-11	0.00E+00	3.54E-09
3326	457076.1	3767961	3.121E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.35E-09	2.88E-10	0.00E+00	9.64E-09	3.54E-09	9.29E-11	0.00E+00	3.63E-09
3327	457079.7	3767952	3.202E-08	1.64E-09	0.00E+00	3.37E-08	3.20E-08	1.64E-09	0.00E+00	3.37E-08	9.59E-09	2.95E-10	0.00E+00	9.89E-09	3.63E-09	9.53E-11	0.00E+00	3.73E-09
3328	457083.3	3767943	3.279E-08	1.68E-09	0.00E+00	3.45E-08	3.28E-08	1.68E-09	0.00E+00	3.45E-08	9.82E-09	3.02E-10	0.00E+00	1.01E-08	3.72E-09	9.76E-11	0.00E+00	3.82E-09
3329	457087	3767934	3.351E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.97E-11	0.00E+00	3.90E-09
3330	457090.6	3767926	3.419E-08	1.75E-09	0.00E+00	3.59E-08	3.42E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.06E-08	3.88E-09	1.02E-10	0.00E+00	3.98E-09
3331	457094.2	3767917	3.484E-08	1.79E-09	0.00E+00	3.66E-08	3.48E-08	1.79E-09	0.00E+00	3.66E-08	1.04E-08	3.21E-10	0.00E+00	1.08E-08	3.95E-09	1.04E-10	0.00E+00	4.06E-09
3332	457097.8	3767908	3.545E-08	1.82E-09	0.00E+00	3.73E-08	3.54E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.09E-08	4.02E-09	1.05E-10	0.00E+00	4.13E-09
3333	457101.4	3767899	3.6E-08	1.85E-09	0.00E+00	3.78E-08	3.60E-08	1.85E-09	0.00E+00	3.78E-08	1.08E-08	3.32E-10	0.00E+00	1.11E-08	4.08E-09	1.07E-10	0.00E+00	4.19E-09
3334	457105.1	3767890	3.65E-08	1.87E-09	0.00E+00	3.84E-08	3.65E-08	1.87E-09	0.00E+00	3.84E-08	1.09E-08	3.36E-10	0.00E+00	1.13E-08	4.14E-09	1.09E-10	0.00E+00	4.25E-09
3335	457108.7	3767881	3.695E-08	1.89E-09	0.00E+00	3.88E-08	3.69E-08	1.89E-09	0.00E+00	3.88E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.19E-09	1.10E-10	0.00E+00	4.30E-09
3336	457112.3	3767872	3.734E-08	1.91E-09	0.00E+00	3.93E-08	3.73E-08	1.91E-09	0.00E+00	3.93E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
3337	457115.9	3767863	3.767E-08	1.93E-09	0.00E+00	3.96E-08	3.77E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.39E-09
3338	457119.5	3767854	3.794E-08	1.95E-09	0.00E+00	3.99E-08	3.79E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.30E-09	1.13E-10	0.00E+00	4.42E-09
3339	457123.2	3767846	3.816E-08	1.96E-09	0.00E+00	4.01E-08	3.82E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.44E-09
3340	457135.6	3767833	3.944E-08	2.02E-09	0.00E+00	4.15E-08	3.94E-08	2.02E-09	0.00E+00	4.15E-08	1.18E-08	3.64E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
3341	457144.5	3767829	4.055E-08	2.08E-09	0.00E+00	4.26E-08	4.06E-08	2.08E-09	0.00E+00	4.26E-08	1.21E-08	3.74E-10	0.00E+00	1.25E-08	4.60E-09	1.21E-10	0.00E+00	4.72E-09
3342	457153.4	3767826	4.165E-08	2.14E-09	0.00E+00	4.38E-08	4.16E-08	2.14E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.72E-09	1.24E-10	0.00E+00	4.85E-09
3343	457162.2	3767822	4.27E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.94E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
3344	457171.1	3767818	4.372E-08	2.24E-09	0.00E+00	4.60E-08	4.37E-08	2.24E-09	0.00E+00	4.60E-08	1.31E-08	4.03E-10	0.00E+00	1.35E-08	4.96E-09	1.30E-10	0.00E+00	5.09E-09
3345	457179.9	3767814	4.47E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.07E-09	1.33E-10	0.00E+00	5.20E-09
3346	457188.8	3767811	4.563E-08	2.34E-09	0.00E+00	4.80E-08	4.56E-08	2.34E-09	0.00E+00	4.80E-08	1.37E-08	4.21E-10	0.00E+00	1.41E-08	5.18E-09	1.36E-10	0.00E+00	5.31E-09
3347	457197.7	3767807	4.65E-08	2.38E-09	0.00E+00	4.89E-08	4.65E-08	2.38E-09	0.00E+00	4.89E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.28E-09	1.38E-10	0.00E+00	5.41E-09
3348	457206.5	3767803	4.73E-08	2.43E-09	0.00E+00	4.97E-08	4.73E-08	2.43E-09	0.00E+00	4.97E-08	1.42E-08	4.36E-10	0.00E+00	1.46E-08	5.37E-09	1.41E-10	0.00E+00	5.51E-09
3349	457215.4	3767800	4.804E-08	2.46E-09	0.00E+00	5.05E-08	4.80E-08	2.46E-09	0.00E+00	5.05E-08	1.44E-08	4.43E-10	0.00E+00	1.48E-08	5.45E-09	1.43E-10	0.00E+00	5.59E-09
3350	457224.2	3767796	4.87E-08	2.50E-09	0.00E+00	5.12E-08	4.87E-08	2.50E-09	0.00E+00	5.12E-08	1.46E-08	4.49E-10	0.00E+00	1.50E-08	5.53E-09	1.45E-10	0.00E+00	5.67E-09
3351	457233.1	3767792	4.929E-08	2.53E-09	0.00E+00	5.18E-08	4.93E-08	2.53E-09	0.00E+00	5.18E-08	1.48E-08	4.54E-10	0.00E+00	1.52E-08	5.59E-09	1.47E-10	0.00E+00	5.74E-09
3352	457242	3767789	4.979E-08	2.55E-09	0.00E+00	5.23E-08	4.98E-08	2.55E-09	0.00E+00	5.23E-08	1.49E-08	4.59E-10	0.00E+00	1.54E-08	5.65E-09	1.48E-10	0.00E+00	5.80E-09
3353	457250.8	3767785	5.021E-08	2.57E-09	0.00E+00	5.28E-08	5.02E-08	2.57E-09	0.00E+00	5.28E-08	1.50E-08	4.63E-10	0.00E+00	1.55E-08	5.70E-09	1.49E-10	0.00E+00	5.85E-09
3354	457259.7	3767781	5.054E-08	2.59E-09	0.00E+00	5.31E-08	5.05E-08	2.59E-09	0.00E+00	5.31E-08	1.51E-08	4.66E-10	0.00E+00	1.56E-08	5.73E-09	1.50E-10	0.00E+00	5.88E-09
3355	457268.5	3767777	5.078E-08	2.60E-09	0.00E+00	5.34E-08	5.08E-08	2.60E-09	0.00E+00	5.34E-08	1.52E-08	4.68E-10	0.00E+00	1.57E-08	5.76E-09	1.51E-10	0.00E+00	5.91E-09
3356	457277.4	3767774	5.096E-08	2.61E-09	0.00E+00	5.36E-08	5.10E-08	2.61E-09	0.00E+00	5.36E-08	1.53E-08	4.70E-10	0.00E+00	1.57E-08	5.78E-09	1.52E-10	0.00E+00	5.93E-09
3357	457286.3	3767770	5.105E-08	2.62E-09	0.00E+00	5.37E-08	5.10E-08	2.62E-09	0.00E+00	5.37E-08	1.53E-08	4.71E-10	0.00E+00	1.58E-08	5.79E-09	1.52E-10	0.00E+00	5.94E-09

3358	457047.1	3768032	2.417E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.24E-09	2.23E-10	0.00E+00	7.46E-09	2.74E-09	7.19E-11	0.00E+00	2.81E-09
3359	457047.2	3768042	2.368E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.09E-09	2.18E-10	0.00E+00	7.31E-09	2.69E-09	7.05E-11	0.00E+00	2.76E-09
3360	457047.3	3768052	2.317E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.94E-09	2.14E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
3361	457047.4	3768061	2.264E-08	1.16E-09	0.00E+00	2.38E-08	2.26E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.74E-11	0.00E+00	2.64E-09
3362	457047.4	3768071	2.21E-08	1.13E-09	0.00E+00	2.32E-08	2.21E-08	1.13E-09	0.00E+00	2.32E-08	6.62E-09	2.04E-10	0.00E+00	6.82E-09	2.51E-09	6.58E-11	0.00E+00	2.57E-09
3363	457047.5	3768080	2.155E-08	1.10E-09	0.00E+00	2.27E-08	2.15E-08	1.10E-09	0.00E+00	2.27E-08	6.45E-09	1.99E-10	0.00E+00	6.65E-09	2.44E-09	6.41E-11	0.00E+00	2.51E-09
3364	457047.6	3768090	2.098E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.28E-09	1.93E-10	0.00E+00	6.48E-09	2.38E-09	6.24E-11	0.00E+00	2.44E-09
3365	457047.7	3768100	2.041E-08	1.05E-09	0.00E+00	2.15E-08	2.04E-08	1.05E-09	0.00E+00	2.15E-08	6.11E-09	1.88E-10	0.00E+00	6.30E-09	2.32E-09	6.07E-11	0.00E+00	2.38E-09
3366	457047.7	3768109	1.983E-08	1.02E-09	0.00E+00	2.08E-08	1.98E-08	1.02E-09	0.00E+00	2.08E-08	5.94E-09	1.83E-10	0.00E+00	6.12E-09	2.25E-09	5.90E-11	0.00E+00	2.31E-09
3367	457047.8	3768119	1.924E-08	9.86E-10	0.00E+00	2.02E-08	1.92E-08	9.86E-10	0.00E+00	2.02E-08	5.76E-09	1.77E-10	0.00E+00	5.94E-09	2.18E-09	5.73E-11	0.00E+00	2.24E-09
3368	457047.9	3768128	1.866E-08	9.57E-10	0.00E+00	1.96E-08	1.87E-08	9.57E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
3369	457048	3768138	1.808E-08	9.27E-10	0.00E+00	1.90E-08	1.81E-08	9.27E-10	0.00E+00	1.90E-08	5.42E-09	1.67E-10	0.00E+00	5.58E-09	2.05E-09	5.38E-11	0.00E+00	2.11E-09
3370	457048	3768148	1.751E-08	8.98E-10	0.00E+00	1.84E-08	1.75E-08	8.98E-10	0.00E+00	1.84E-08	5.25E-09	1.61E-10	0.00E+00	5.41E-09	1.99E-09	5.21E-11	0.00E+00	2.04E-09
3371	457048.1	3768157	1.695E-08	8.69E-10	0.00E+00	1.78E-08	1.70E-08	8.69E-10	0.00E+00	1.78E-08	5.08E-09	1.56E-10	0.00E+00	5.23E-09	1.92E-09	5.04E-11	0.00E+00	1.97E-09
3372	457048.2	3768167	1.64E-08	8.41E-10	0.00E+00	1.72E-08	1.64E-08	8.41E-10	0.00E+00	1.72E-08	4.91E-09	1.51E-10	0.00E+00	5.06E-09	1.86E-09	4.88E-11	0.00E+00	1.91E-09
3373	457048.3	3768177	1.586E-08	8.13E-10	0.00E+00	1.67E-08	1.59E-08	8.13E-10	0.00E+00	1.67E-08	4.75E-09	1.46E-10	0.00E+00	4.90E-09	1.80E-09	4.72E-11	0.00E+00	1.85E-09
3374	457048.3	3768186	1.533E-08	7.86E-10	0.00E+00	1.61E-08	1.53E-08	7.86E-10	0.00E+00	1.61E-08	4.59E-09	1.41E-10	0.00E+00	4.73E-09	1.74E-09	4.56E-11	0.00E+00	1.79E-09
3375	457048.4	3768196	1.482E-08	7.60E-10	0.00E+00	1.56E-08	1.48E-08	7.60E-10	0.00E+00	1.56E-08	4.44E-09	1.37E-10	0.00E+00	4.58E-09	1.68E-09	4.41E-11	0.00E+00	1.73E-09
3376	457048.5	3768205	1.432E-08	7.34E-10	0.00E+00	1.51E-08	1.43E-08	7.34E-10	0.00E+00	1.51E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
3377	457048.5	3768215	1.384E-08	7.09E-10	0.00E+00	1.45E-08	1.38E-08	7.09E-10	0.00E+00	1.45E-08	4.14E-09	1.28E-10	0.00E+00	4.27E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
3378	457048.6	3768225	1.337E-08	6.85E-10	0.00E+00	1.41E-08	1.34E-08	6.85E-10	0.00E+00	1.41E-08	4.00E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
3379	457048.7	3768234	1.292E-08	6.62E-10	0.00E+00	1.36E-08	1.29E-08	6.62E-10	0.00E+00	1.36E-08	3.87E-09	1.19E-10	0.00E+00	3.99E-09	1.47E-09	3.84E-11	0.00E+00	1.50E-09
3380	457025.8	3768024	2.22E-08	1.14E-09	0.00E+00	2.33E-08	2.22E-08	1.14E-09	0.00E+00	2.33E-08	6.65E-09	2.05E-10	0.00E+00	6.85E-09	2.52E-09	6.61E-11	0.00E+00	2.59E-09
3381	457029.4	3768015	2.298E-08	1.18E-09	0.00E+00	2.42E-08	2.30E-08	1.18E-09	0.00E+00	2.42E-08	6.88E-09	2.12E-10	0.00E+00	7.09E-09	2.61E-09	6.84E-11	0.00E+00	2.68E-09
3382	457033	3768006	2.374E-08	1.22E-09	0.00E+00	2.50E-08	2.37E-08	1.22E-09	0.00E+00	2.50E-08	7.11E-09	2.19E-10	0.00E+00	7.33E-09	2.69E-09	7.07E-11	0.00E+00	2.76E-09
3383	457036.6	3767997	2.452E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.34E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.30E-11	0.00E+00	2.85E-09
3384	457040.2	3767988	2.529E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.57E-09	2.33E-10	0.00E+00	7.81E-09	2.87E-09	7.53E-11	0.00E+00	2.94E-09
3385	457043.9	3767979	2.606E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.75E-11	0.00E+00	3.03E-09
3386	457047.5	3767970	2.682E-08	1.38E-09	0.00E+00	2.82E-08	2.68E-08	1.38E-09	0.00E+00	2.82E-08	8.03E-09	2.47E-10	0.00E+00	8.28E-09	3.04E-09	7.98E-11	0.00E+00	3.12E-09
3387	457051.1	3767961	2.756E-08	1.41E-09	0.00E+00	2.90E-08	2.76E-08	1.41E-09	0.00E+00	2.90E-08	8.25E-09	2.54E-10	0.00E+00	8.51E-09	3.13E-09	8.20E-11	0.00E+00	3.21E-09
3388	457054.7	3767952	2.829E-08	1.45E-09	0.00E+00	2.97E-08	2.83E-08	1.45E-09	0.00E+00	2.97E-08	8.47E-09	2.61E-10	0.00E+00	8.73E-09	3.21E-09	8.42E-11	0.00E+00	3.29E-09
3389	457058.3	3767944	2.9E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.69E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.63E-11	0.00E+00	3.38E-09
3390	457062	3767935	2.969E-08	1.52E-09	0.00E+00	3.12E-08	2.97E-08	1.52E-09	0.00E+00	3.12E-08	8.89E-09	2.74E-10	0.00E+00	9.17E-09	3.37E-09	8.83E-11	0.00E+00	3.46E-09
3391	457065.6	3767926	3.035E-08	1.56E-09	0.00E+00	3.19E-08	3.03E-08	1.56E-09	0.00E+00	3.19E-08	9.09E-09	2.80E-10	0.00E+00	9.37E-09	3.44E-09	9.03E-11	0.00E+00	3.53E-09
3392	457069.2	3767917	3.098E-08	1.59E-09	0.00E+00	3.26E-08	3.10E-08	1.59E-09	0.00E+00	3.26E-08	9.28E-09	2.86E-10	0.00E+00	9.56E-09	3.51E-09	9.22E-11	0.00E+00	3.61E-09
3393	457072.8	3767908	3.157E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.46E-09	2.91E-10	0.00E+00	9.75E-09	3.58E-09	9.40E-11	0.00E+00	3.68E-09
3394	457076.4	3767899	3.213E-08	1.65E-09	0.00E+00	3.38E-08	3.21E-08	1.65E-09	0.00E+00	3.38E-08	9.62E-09	2.96E-10	0.00E+00	9.92E-09	3.65E-09	9.56E-11	0.00E+00	3.74E-09
3395	457080.1	3767890	3.265E-08	1.67E-09	0.00E+00	3.43E-08	3.26E-08	1.67E-09	0.00E+00	3.43E-08	9.78E-09	3.01E-10	0.00E+00	1.01E-08	3.70E-09	9.71E-11	0.00E+00	3.80E-09
3396	457083.7	3767881	3.312E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.92E-09	3.05E-10	0.00E+00	1.02E-08	3.76E-09	9.86E-11	0.00E+00	3.86E-09
3397	457087.3	3767872	3.355E-08	1.72E-09	0.00E+00	3.53E-08	3.36E-08	1.72E-09	0.00E+00	3.53E-08	1.00E-08	3.09E-10	0.00E+00	1.04E-08	3.81E-09	9.98E-11	0.00E+00	3.91E-09
3398	457090.9	3767864	3.393E-08	1.74E-09	0.00E+00	3.57E-08	3.39E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.85E-09	1.01E-10	0.00E+00	3.95E-09
3399	457094.5	3767855	3.425E-08	1.76E-09	0.00E+00	3.60E-08	3.43E-08	1.76E-09	0.00E+00	3.60E-08	1.03E-08	3.16E-10	0.00E+00	1.06E-08	3.89E-09	1.02E-10	0.00E+00	3.99E-09
3400	457098.2	3767846	3.453E-08	1.77E-09	0.00E+00	3.63E-08	3.45E-08	1.77E-09	0.00E+00	3.63E-08	1.03E-08	3.18E-10	0.00E+00	1.07E-08	3.92E-09	1.03E-10	0.00E+00	4.02E-09
3401	457101.8	3767837	3.477E-08	1.78E-09	0.00E+00	3.66E-08	3.48E-08	1.78E-09	0.00E+00	3.66E-08	1.04E-08	3.20E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.05E-09
3402	457105.4	3767828	3.496E-08	1.79E-09	0.00E+00	3.68E-08	3.50E-08	1.79E-09	0.00E+00	3.68E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.07E-09
3403	457117.9	3767815	3.61E-08	1.85E-09	0.00E+00	3.79E-08	3.61E-08	1.85E-09	0.00E+00	3.79E-08	1.08E-08	3.33E-10	0.00E+00	1.11E-08	4.10E-09	1.07E-10	0.00E+00	4.20E-09
3404	457126.7	3767812	3.708E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
3405	457135.6	3767808	3.806E-08	1.95E-09	0.00E+00	4.00E-08	3.81E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.51E-10	0.00E+00	1.17E-08	4.32E-09	1.13E-10	0.00E+00	4.43E-09
3406	457144.5	3767804	3.901E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.60E-10	0.00E+00	1.20E-08	4.43E-09	1.16E-10	0.00E+00	4.54E-09
3407	457153.3	3767801	3.993E-08	2.05E-09	0.00E+00	4.20E-08	3.99E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.68E-10	0.00E+00	1.23E-08	4.53E-09	1.19E-10	0.00E+00	4.65E-09
3408	457162.2	3767797	4.081E-08	2.09E-09	0.00E+00	4.29E-08	4.08E-08	2.09E-09	0.00E+00	4.29E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.63E-09	1.21E-10	0.00E+00	4.75E-09
3409	457171	3767793	4.165E-08	2.14E-09	0.00E+00	4.38E-08	4.16E-08	2.14E-09	0.00E+00	4.38E-08	1.25E-08	3.84E-10	0.00E+00	1.29E-08	4.73E-09	1.24E-10	0.00E+00	4.85E-09
3410	457179.9	3767789	4.245E-08	2.18E-09	0.00E+00	4.46E-08	4.25E-08	2.18E-09	0.00E+00	4.46E-08	1.27E-08	3.91E-10	0.00E+00	1.31E-08	4.82E-09	1.26E-10	0.00E+00	4.94E-09
3411	457188.8	3767786	4.32E-08	2.21E-09	0.00E+00	4.54E-08	4.32E-08	2.21E-09	0.00E+00	4.54E-08	1.29E-08	3.98E-10	0.00E+00	1.33E-08	4.90E-09	1.29E-10	0.00E+00	5.03E-09
3412	457197.6	3767782	4.389E-08	2.25E-09	0.00E+00	4.61E-08	4.39E-08	2.25E-09	0.00E+00	4.61E-08	1.31E-08	4.05E-10	0.00E+00	1.35E-08	4.98E-09	1.31E-10	0.00E+00	5.11E-09
3413	457206.5	3767778	4.452E-08	2.28E-09	0.00E+00	4.68E-08	4.45E-08	2.28E-09	0.00E+00	4.68E-08	1.33E-08	4.10E-10	0.00E+00	1.37E-08	5.05E-09	1.32E-10	0.00E+00	5.18E-09
3414	457215.3	3767775	4.508E-08	2.31E-09	0.00E+00	4.74E-08	4.51E-08	2.31E-09	0.00E+00	4.74E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.11E-09	1.34E-10	0.00E+00	5.25E-09
3415	457224.2	3767771	4.558E-08	2.34E-09	0.00E+00	4.79E-08	4.56E-08	2.34E-09	0.00E+00	4.79E-08	1.37E-08	4.20E-10	0.00E+00	1.41E-08	5.17E-09	1.36E-10	0.00E+00	5.31E-09
3416	457233.1	3767767	4.601E-08	2.36E-09	0.00E+00	4.84E-08	4.60E-08	2.36E-09	0.00E+00	4.84E-08	1.38E-08	4.24E-10	0.00E+00	1.42E-08	5.22E-09	1.37E-10	0.00E+00	5.36E-09
3417	457241.9	3767764	4.637E-08	2.38E-09	0.00E+00	4.87E-08	4.64E-08	2.38E-09	0.00E+00	4.87E-08	1.39E-08	4.27E-10	0.00E+00	1.43E-08	5.26E-09	1.38E-10	0.00E+00	5.40E-09
3418	457250.8	3767760	4.665E-08	2.39E-09	0.00E+00	4.90E-08	4.67E-08	2.39E-09	0.00E+00	4.90E-08	1.40E-08	4.30E-10	0.00E+00	1.44E-08	5.29E-09	1.39E-10	0.00E+00	5.43E-09
3419	457259.6	3767756	4.686E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.39E-10	0.00E+00	5.46E-09
3420	457268.5	3767752	4.699E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.33E-09	1.40E-10	0.00E+00	5.47E-09
3421	457277.4	3767749	4.705E-08	2.41E-09	0.00E+00	4.95E-08	4.70E-08	2.41E-09	0.00E+00	4.95E-08	1.41E-08	4.34E-10	0.00E+00	1.45E-08	5.34E-09	1.40E-10	0.00E+00	5.48E-09
3422	457286.2	3767745	4.703E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.34E-10	0.00E+00	1.45E-08	5.34E-09	1.40E-10	0.00E+00	5.48E-09
3423	457022.1	3768032	2.144E-08	1.10E-09	0.00E+00	2.25E-08	2.14E-08	1.10E-09	0.00E+00	2.25E-08	6.42E-09	1.98E-10	0.00E+00	6.62E-09	2.43E-09	6.38E-11	0.00E+00	2.50E-09
3424	457022.2	3768042	2.1E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.94E-10	0.00E+00	6.48E-09	2.38E-09	6.25E-11	0.00E+00	2.44E-09
3425	457022.3	3768052	2.055E-08	1.05E-09	0.00E+00	2.16E-08	2.05E-08	1.05E-09	0.00E+00	2.16E-08	6.15E-09	1.89E-10	0.00E+00	6.34E-09	2.33E-09	6.11E-11	0.00E+00	2.39E-09
3426	457022.4	3768061	2.008E-08	1.03E-09	0.00E+00	2.11E-08	2.01E-08	1.03E-09	0.00E+00	2.11E-08	6.02E-09	1.85E-10	0.00E+00	6.20E-09	2.28E-09	5.98E-11	0.00E+00	2.34E-09
3427	457022.4	3768071	1.961E-08	1.01E-09	0.00E+00	2.06E-08	1.96E-08	1.01E-09	0.00E+00	2.06E-08	5.87E-09	1.81E-10	0.00E+00	6.05E-09	2.22E-09	5.84E-11	0.00E+00	2.28E-09
3428	457022.5	3768081	1.913E-08	9.81E-10	0.00E+00	2.01E-08	1.91E-08	9.81E-10	0.00E+00	2.01E-08	5.73E-09	1.76E-10	0.00E+00	5.91E-09	2.17E-09	5.69E-11	0.00E+00	2.23E-09
3429	457022.6	3768090	1.866E-08	9.56E-10	0.00E+00	1.96E-08	1.87E-08	9.56E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.76E-09	2.12E-09	5.55E-11	0.00E+00	2.17E-09
3430	457022.7	3768100	1.817E-08	9.32E-10	0.00E+00	1.91E-08	1.82E-08	9.32E-10	0.00E+00	1.91E-08	5.44E-09	1.68E-10	0.00E+00	5.61E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
3431	457022.7	3768109	1.768E-08	9.07E-10	0.00E+00	1.86E-08	1.77E-08	9.07E-10	0.00E+00	1.86E-08	5.30E-09	1.63E-10	0.00E+00	5.46E-09	2.01E-09	5.26E-11	0.00E+00	2.06E-09
3432	457022.8	3768119	1.719E-08	8.81E-10	0.00E+00	1.81E-08	1.72E-08	8.81E-10	0.00E+00	1.81E-08	5.15E-09	1.58E-10	0.00E+00	5.31E-09	1.95E-09	5.11E-11	0.00E+00	2.00E-09
3433	457022.9	3768129	1.67E-08	8.56E-10	0.00E+00	1.76E-08	1.67E-08	8.56E-10	0.00E+00	1.76E-08	5.00E-09	1.54E-10	0.00E+00	5.15E-09	1.89E-09	4.97E-11	0.00E+00	1.94E-09
3434	457023	3768138	1.621E-08	8.31E-10	0.00E+00	1.70E-08	1.62E-08	8.31E-10	0.00E+00	1.70E-08	4.85E-09	1.49E-10	0.00E+00	5.00E-09	1.84E-09	4.82E-11	0.00E+00	1.89E-09
3435	457023	3768148	1.572E-08	8.06E-10	0.00E+00	1.65E-08	1.57E-08	8.06E-10	0.00E+00	1.65E-08	4.71E-09	1.45E-10	0.00E+00	4.85E-09	1.78E-09	4.68E-11	0.00E+00	1.83E-09
3436	457023.1	3768158	1.524E-08	7.81E-10	0.00E+00	1.60E-08	1.52E-08	7.81E-10	0.00E+00	1.60E-08	4.57E-09	1.41E-10	0.00E+00	4.71E-09	1.73E-09	4.54E-11	0.00E+00	1.77E-09
3437	457023.2	3768167	1.477E-08	7.57E-10	0.00E+00	1.55E-08	1.48E-08	7.57E-10	0.00E+00	1.55E-08	4.43E-09	1.36E-10	0.00E+00	4.56E-09	1.68E-09	4.40E-11	0.00E+00	1.72E-09
3438	457023.3	3768177	1.432E-08	7.34E-10	0.00E+00	1.51E-08	1.43E-08	7.34E-10	0.00E+00	1.51E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
3439	457023.3	3768186	1.388E-08	7.11E-10	0.00E+00	1.46E-08	1.39E-08	7.11E-10	0.00E+00	1.46E-08	4.16E-09	1.28E-10	0.00E+00	4.28E-09	1.57E-09	4.13E-11	0.00E+00	1.62E-09
3440	457023.4	3768196	1.344E-08	6.89E-10	0.00E+00	1.41E-08	1.34E-08	6.89E-10	0.00E+00	1.41E-08	4.03E-09	1.24E-10	0.00E+00	4.15E-09	1.53E-09	4.00E-11	0.00E+00	1.57E-09
3441	457023.5	3768206	1.302E-08	6.67E-10	0.00E+00	1.37E-08	1.30E-08	6.67E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.87E-11	0.00E+00	1.52E-09
3442	457023.5	3768215	1.261E-08	6.46E-10	0.00E+00	1.33E-08	1.26E-08	6.46E-10	0.00E+00	1.33E-08	3.78E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.75E-11	0.00E+00	1.47E-09
3443	457023.6	3768225	1.221E-08	6.26E-10	0.00E+00	1.28E-08	1.22E-08	6.26E-10	0.00E+00	1.28E-08	3.66E-09	1.13E-10	0.00E+00	3.77E-09	1.39E-09	3.63E-11	0.00E+00	1.42E-09
3444	457023.7	3768234	1.182E-08	6.06E-10	0.00E+00	1.24E-08	1.18E-08	6.06E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
3445	457000.8	3768024	1.982E-08	1.02E-09	0.00E+00	2.08E-08	1.98E-08	1.02E-09	0.00E+00	2.08E-08	5.94E-09	1.83E-10	0.00E+00	6.12E-09	2.25E-09	5.90E-11	0.00E+00	2.31E-09
3446	457004.4	3768015	2.049E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.14E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.10E-11	0.00E+00	2.39E-09
3447	457008	3768006	2.115E-08	1.08E-09	0.00E+00	2.22E-08	2.12E-08	1.08E-09	0.00E+00	2.22E-08	6.34E-09	1.95E-10	0.00E+00	6.53E-09	2.40E-09	6.29E-11	0.00E+00	2.46E-09
3448	457011.6	3767997	2.182E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.54E-09	2.01E-10	0.00E+00	6.74E-09	2.48E-09	6.49E-11	0.00E+00	2.54E-09
3449	457015.2	3767988	2.249E-08	1.15E-09	0.00E+00	2.36E-08	2.25E-08	1.15E-09	0.00E+00	2.36E-08	6.74E-09	2.07E-10	0.00E+00	6.94E-09	2.55E-09	6.69E-11	0.00E+00	2.62E-09
3450	457018.9	3767979	2.317E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.94E-09	2.14E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
3451	457022.5	3767970	2.384E-08	1.22E-09	0.00E+00	2.51E-08	2.38E-08	1.22E-09	0.00E+00	2.51E-08	7.14E-09	2.20E-10	0.00E+00	7.36E-09	2.71E-09	7.10E-11	0.00E+00	2.78E-09
3452	457026.1	3767962	2.451E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.34E-09	2.26E-10	0.00E+00	7.57E-09	2.78E-09	7.29E-11	0.00E+00	2.85E-09
3453	457029.7	3767953	2.517E-08	1.29E-09	0.00E+00	2.65E-08	2.52E-08	1.29E-09	0.00E+00	2.65E-08	7.54E-09	2.32E-10	0.00E+00	7.77E-09	2.86E-09	7.49E-11	0.00E+00	2.93E-09
3454	457033.3	3767944	2.582E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.73E-09	2.38E-10	0.00E+00	7.97E-09	2.93E-09	7.68E-11	0.00E+00	3.01E-09
3455	457037	3767935	2.645E-08	1.36E-09	0.00E+00	2.78E-08	2.65E-08	1.36E-09	0.00E+00	2.78E-08	7.92E-09	2.44E-10	0.00E+00	8.17E-09	3.00E-09	7.87E-11	0.00E+00	3.08E-09
3456	457040.6	3767926	2.707E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.11E-09	2.49E-10	0.00E+00	8.36E-09	3.07E-09	8.05E-11	0.00E+00	3.15E-09
3457	457044.2	3767917	2.766E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.28E-09	2.55E-10	0.00E+00	8.54E-09	3.14E-09	8.23E-11	0.00E+00	3.22E-09
3458	457047.8	3767908	2.822E-08	1.45E-09	0.00E+00	2.97E-08	2.82E-08	1.45E-09	0.00E+00	2.97E-08	8.45E-09	2.60E-10	0.00E+00	8.71E-09	3.20E-09	8.40E-11	0.00E+00	3.29E-09
3459	457051.4	3767899	2.876E-08	1.47E-09	0.00E+00	3.02E-08	2.88E-08	1.47E-09	0.00E+00	3.02E-08	8.61E-09	2.65E-10	0.00E+00	8.88E-09	3.26E-09	8.56E-11	0.00E+00	3.35E-09
3460	457055.1	3767890	2.927E-08	1.50E-09	0.00E+00	3.08E-08	2.93E-08	1.50E-09	0.00E+00	3.08E-08	8.77E-09	2.70E-10	0.00E+00	9.04E-09	3.32E-09	8.71E-11	0.00E+00	3.41E-09
3461	457058.7	3767881	2.975E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.19E-09	3.38E-09	8.85E-11	0.00E+00	3.46E-09
3462	457062.3	3767873	3.02E-08	1.55E-09	0.00E+00	3.17E-08	3.02E-08	1.55E-09	0.00E+00	3.17E-08	9.04E-09	2.78E-10	0.00E+00	9.32E-09	3.43E-09	8.99E-11	0.00E+00	3.52E-09
3463	457065.9	3767864	3.06E-08	1.57E-09	0.00E+00	3.22E-08	3.06E-08	1.57E-09	0.00E+00	3.22E-08	9.17E-09	2.82E-10	0.00E+00	9.45E-09	3.47E-09	9.11E-11	0.00E+00	3.56E-09
3464	457069.5	3767855	3.096E-08	1.59E-09	0.00E+00	3.25E-08	3.10E-08	1.59E-09	0.00E+00	3.25E-08	9.27E-09	2.85E-10	0.00E+00	9.56E-09	3.51E-09	9.21E-11	0.00E+00	3.60E-09
3465	457073.2	3767846	3.127E-08	1.60E-09	0.00E+00	3.29E-08	3.13E-08	1.60E-09	0.00E+00	3.29E-08	9.37E-09	2.88E-10	0.00E+00	9.65E-09	3.55E-09	9.31E-11	0.00E+00	3.64E-09
3466	457076.8	3767837	3.155E-08	1.62E-09	0.00E+00	3.32E-08	3.15E-08	1.62E-09	0.00E+00	3.32E-08	9.45E-09	2.91E-10	0.00E+00	9.74E-09	3.58E-09	9.39E-11	0.00E+00	3.67E-09
3467	457080.4	3767828	3.18E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.53E-09	2.93E-10	0.00E+00	9.82E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
3468	457084	3767819	3.202E-08	1.64E-09	0.00E+00	3.37E-08	3.20E-08	1.64E-09	0.00E+00	3.37E-08	9.59E-09	2.95E-10	0.00E+00	9.89E-09	3.63E-09	9.53E-11	0.00E+00	3.73E-09
3469	457087.6	3767810	3.22E-08	1.65E-09	0.00E+00	3.39E-08	3.22E-08	1.65E-09	0.00E+00	3.39E-08	9.65E-09	2.97E-10	0.00E+00	9.94E-09	3.65E-09	9.58E-11	0.00E+00	3.75E-09

3470	457100.1	3767798	3.322E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.95E-09	3.06E-10	0.00E+00	1.03E-08	3.77E-09	9.89E-11	0.00E+00	3.87E-09
3471	457109	3767794	3.409E-08	1.75E-09	0.00E+00	3.58E-08	3.41E-08	1.75E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.87E-09	1.01E-10	0.00E+00	3.97E-09
3472	457117.8	3767790	3.494E-08	1.79E-09	0.00E+00	3.67E-08	3.49E-08	1.79E-09	0.00E+00	3.67E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.96E-09	1.04E-10	0.00E+00	4.07E-09
3473	457126.7	3767787	3.578E-08	1.83E-09	0.00E+00	3.76E-08	3.58E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.30E-10	0.00E+00	1.10E-08	4.06E-09	1.06E-10	0.00E+00	4.17E-09
3474	457135.6	3767783	3.66E-08	1.88E-09	0.00E+00	3.85E-08	3.66E-08	1.88E-09	0.00E+00	3.85E-08	1.10E-08	3.37E-10	0.00E+00	1.13E-08	4.15E-09	1.09E-10	0.00E+00	4.26E-09
3475	457144.4	3767779	3.738E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
3476	457153.3	3767776	3.814E-08	1.96E-09	0.00E+00	4.01E-08	3.81E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.44E-09
3477	457162.1	3767772	3.889E-08	1.99E-09	0.00E+00	4.09E-08	3.89E-08	1.99E-09	0.00E+00	4.09E-08	1.16E-08	3.59E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.53E-09
3478	457171	3767768	3.96E-08	2.03E-09	0.00E+00	4.16E-08	3.96E-08	2.03E-09	0.00E+00	4.16E-08	1.19E-08	3.65E-10	0.00E+00	1.22E-08	4.49E-09	1.18E-10	0.00E+00	4.61E-09
3479	457179.9	3767764	4.026E-08	2.06E-09	0.00E+00	4.23E-08	4.03E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
3480	457188.7	3767761	4.086E-08	2.09E-09	0.00E+00	4.29E-08	4.09E-08	2.09E-09	0.00E+00	4.29E-08	1.22E-08	3.77E-10	0.00E+00	1.26E-08	4.64E-09	1.22E-10	0.00E+00	4.76E-09
3481	457197.6	3767757	4.14E-08	2.12E-09	0.00E+00	4.35E-08	4.14E-08	2.12E-09	0.00E+00	4.35E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.82E-09
3482	457206.4	3767753	4.188E-08	2.15E-09	0.00E+00	4.40E-08	4.19E-08	2.15E-09	0.00E+00	4.40E-08	1.25E-08	3.86E-10	0.00E+00	1.29E-08	4.75E-09	1.25E-10	0.00E+00	4.88E-09
3483	457215.3	3767750	4.231E-08	2.17E-09	0.00E+00	4.45E-08	4.23E-08	2.17E-09	0.00E+00	4.45E-08	1.27E-08	3.90E-10	0.00E+00	1.31E-08	4.80E-09	1.26E-10	0.00E+00	4.93E-09
3484	457224.2	3767746	4.268E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
3485	457233	3767742	4.299E-08	2.20E-09	0.00E+00	4.52E-08	4.30E-08	2.20E-09	0.00E+00	4.52E-08	1.29E-08	3.96E-10	0.00E+00	1.33E-08	4.88E-09	1.28E-10	0.00E+00	5.00E-09
3486	457241.9	3767739	4.323E-08	2.22E-09	0.00E+00	4.54E-08	4.32E-08	2.22E-09	0.00E+00	4.54E-08	1.29E-08	3.99E-10	0.00E+00	1.33E-08	4.90E-09	1.29E-10	0.00E+00	5.03E-09
3487	457250.7	3767735	4.341E-08	2.23E-09	0.00E+00	4.56E-08	4.34E-08	2.23E-09	0.00E+00	4.56E-08	1.30E-08	4.00E-10	0.00E+00	1.34E-08	4.92E-09	1.29E-10	0.00E+00	5.05E-09
3488	457259.6	3767731	4.352E-08	2.23E-09	0.00E+00	4.58E-08	4.35E-08	2.23E-09	0.00E+00	4.58E-08	1.30E-08	4.01E-10	0.00E+00	1.34E-08	4.94E-09	1.30E-10	0.00E+00	5.07E-09
3489	457268.5	3767727	4.357E-08	2.23E-09	0.00E+00	4.58E-08	4.36E-08	2.23E-09	0.00E+00	4.58E-08	1.30E-08	4.02E-10	0.00E+00	1.35E-08	4.94E-09	1.30E-10	0.00E+00	5.07E-09
3490	457277.3	3767724	4.355E-08	2.23E-09	0.00E+00	4.58E-08	4.36E-08	2.23E-09	0.00E+00	4.58E-08	1.30E-08	4.01E-10	0.00E+00	1.34E-08	4.94E-09	1.30E-10	0.00E+00	5.07E-09
3491	457286.2	3767720	4.347E-08	2.23E-09	0.00E+00	4.57E-08	4.35E-08	2.23E-09	0.00E+00	4.57E-08	1.30E-08	4.01E-10	0.00E+00	1.34E-08	4.93E-09	1.29E-10	0.00E+00	5.06E-09
3492	456997.1	3768033	1.915E-08	9.82E-10	0.00E+00	2.01E-08	1.92E-08	9.82E-10	0.00E+00	2.01E-08	5.74E-09	1.77E-10	0.00E+00	5.91E-09	2.17E-09	5.70E-11	0.00E+00	2.23E-09
3493	456997.2	3768042	1.877E-08	9.62E-10	0.00E+00	1.97E-08	1.88E-08	9.62E-10	0.00E+00	1.97E-08	5.62E-09	1.73E-10	0.00E+00	5.79E-09	2.13E-09	5.58E-11	0.00E+00	2.19E-09
3494	456997.3	3768052	1.837E-08	9.42E-10	0.00E+00	1.93E-08	1.84E-08	9.42E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.67E-09	2.08E-09	5.47E-11	0.00E+00	2.14E-09
3495	456997.4	3768062	1.797E-08	9.21E-10	0.00E+00	1.89E-08	1.80E-08	9.21E-10	0.00E+00	1.89E-08	5.38E-09	1.66E-10	0.00E+00	5.55E-09	2.04E-09	5.35E-11	0.00E+00	2.09E-09
3496	456997.4	3768071	1.756E-08	9.00E-10	0.00E+00	1.85E-08	1.76E-08	9.00E-10	0.00E+00	1.85E-08	5.26E-09	1.62E-10	0.00E+00	5.42E-09	1.99E-09	5.22E-11	0.00E+00	2.04E-09
3497	456997.5	3768081	1.715E-08	8.79E-10	0.00E+00	1.80E-08	1.71E-08	8.79E-10	0.00E+00	1.80E-08	5.14E-09	1.58E-10	0.00E+00	5.29E-09	1.95E-09	5.10E-11	0.00E+00	2.00E-09
3498	456997.6	3768090	1.673E-08	8.58E-10	0.00E+00	1.76E-08	1.67E-08	8.58E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.17E-09	1.90E-09	4.98E-11	0.00E+00	1.95E-09
3499	456997.7	3768100	1.632E-08	8.37E-10	0.00E+00	1.72E-08	1.63E-08	8.37E-10	0.00E+00	1.72E-08	4.89E-09	1.50E-10	0.00E+00	5.04E-09	1.85E-09	4.86E-11	0.00E+00	1.90E-09
3500	456997.7	3768110	1.59E-08	8.15E-10	0.00E+00	1.67E-08	1.59E-08	8.15E-10	0.00E+00	1.67E-08	4.76E-09	1.47E-10	0.00E+00	4.91E-09	1.80E-09	4.73E-11	0.00E+00	1.85E-09
3501	456997.8	3768119	1.547E-08	7.93E-10	0.00E+00	1.63E-08	1.55E-08	7.93E-10	0.00E+00	1.63E-08	4.63E-09	1.43E-10	0.00E+00	4.78E-09	1.76E-09	4.60E-11	0.00E+00	1.80E-09
3502	456997.9	3768129	1.505E-08	7.72E-10	0.00E+00	1.58E-08	1.51E-08	7.72E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
3503	456998	3768138	1.463E-08	7.50E-10	0.00E+00	1.54E-08	1.46E-08	7.50E-10	0.00E+00	1.54E-08	4.38E-09	1.35E-10	0.00E+00	4.52E-09	1.66E-09	4.35E-11	0.00E+00	1.70E-09
3504	456998	3768148	1.422E-08	7.29E-10	0.00E+00	1.49E-08	1.42E-08	7.29E-10	0.00E+00	1.49E-08	4.26E-09	1.31E-10	0.00E+00	4.39E-09	1.61E-09	4.23E-11	0.00E+00	1.66E-09
3505	456998.1	3768158	1.381E-08	7.08E-10	0.00E+00	1.45E-08	1.38E-08	7.08E-10	0.00E+00	1.45E-08	4.14E-09	1.27E-10	0.00E+00	4.26E-09	1.57E-09	4.11E-11	0.00E+00	1.61E-09
3506	456998.2	3768167	1.341E-08	6.87E-10	0.00E+00	1.41E-08	1.34E-08	6.87E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
3507	456998.3	3768177	1.302E-08	6.67E-10	0.00E+00	1.37E-08	1.30E-08	6.67E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.87E-11	0.00E+00	1.52E-09
3508	456998.3	3768187	1.263E-08	6.48E-10	0.00E+00	1.33E-08	1.26E-08	6.48E-10	0.00E+00	1.33E-08	3.78E-09	1.16E-10	0.00E+00	3.90E-09	1.43E-09	3.76E-11	0.00E+00	1.47E-09
3509	456998.4	3768196	1.226E-08	6.28E-10	0.00E+00	1.29E-08	1.23E-08	6.28E-10	0.00E+00	1.29E-08	3.67E-09	1.13E-10	0.00E+00	3.78E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
3510	456998.5	3768206	1.19E-08	6.10E-10	0.00E+00	1.25E-08	1.19E-08	6.10E-10	0.00E+00	1.25E-08	3.56E-09	1.10E-10	0.00E+00	3.67E-09	1.35E-09	3.54E-11	0.00E+00	1.39E-09
3511	456998.5	3768215	1.155E-08	5.92E-10	0.00E+00	1.21E-08	1.15E-08	5.92E-10	0.00E+00	1.21E-08	3.46E-09	1.06E-10	0.00E+00	3.56E-09	1.31E-09	3.44E-11	0.00E+00	1.34E-09
3512	456998.6	3768225	1.12E-08	5.74E-10	0.00E+00	1.18E-08	1.12E-08	5.74E-10	0.00E+00	1.18E-08	3.36E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.33E-11	0.00E+00	1.30E-09
3513	456998.7	3768235	1.087E-08	5.57E-10	0.00E+00	1.14E-08	1.09E-08	5.57E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.23E-09	3.23E-11	0.00E+00	1.27E-09
3514	456975.8	3768024	1.779E-08	9.12E-10	0.00E+00	1.87E-08	1.78E-08	9.12E-10	0.00E+00	1.87E-08	5.33E-09	1.64E-10	0.00E+00	5.49E-09	2.02E-09	5.29E-11	0.00E+00	2.07E-09
3515	456979.4	3768015	1.837E-08	9.42E-10	0.00E+00	1.93E-08	1.84E-08	9.42E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.67E-09	2.08E-09	5.47E-11	0.00E+00	2.14E-09
3516	456983	3768006	1.896E-08	9.72E-10	0.00E+00	1.99E-08	1.90E-08	9.72E-10	0.00E+00	1.99E-08	5.68E-09	1.75E-10	0.00E+00	5.85E-09	2.15E-09	5.64E-11	0.00E+00	2.21E-09
3517	456986.6	3767997	1.955E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.86E-09	1.80E-10	0.00E+00	6.04E-09	2.22E-09	5.82E-11	0.00E+00	2.28E-09
3518	456990.2	3767988	2.015E-08	1.03E-09	0.00E+00	2.12E-08	2.01E-08	1.03E-09	0.00E+00	2.12E-08	6.03E-09	1.86E-10	0.00E+00	6.22E-09	2.29E-09	5.99E-11	0.00E+00	2.35E-09
3519	456993.9	3767980	2.074E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.40E-09	2.35E-09	6.17E-11	0.00E+00	2.42E-09
3520	456997.5	3767971	2.134E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.39E-09	1.97E-10	0.00E+00	6.59E-09	2.42E-09	6.35E-11	0.00E+00	2.48E-09
3521	457001.1	3767962	2.194E-08	1.12E-09	0.00E+00	2.31E-08	2.19E-08	1.12E-09	0.00E+00	2.31E-08	6.57E-09	2.02E-10	0.00E+00	6.77E-09	2.49E-09	6.53E-11	0.00E+00	2.55E-09
3522	457004.7	3767953	2.253E-08	1.16E-09	0.00E+00	2.37E-08	2.25E-08	1.16E-09	0.00E+00	2.37E-08	6.75E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.70E-11	0.00E+00	2.62E-09
3523	457008.3	3767944	2.312E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.92E-09	2.13E-10	0.00E+00	7.14E-09	2.62E-09	6.88E-11	0.00E+00	2.69E-09
3524	457012	3767935	2.369E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.10E-09	2.18E-10	0.00E+00	7.31E-09	2.69E-09	7.05E-11	0.00E+00	2.76E-09
3525	457015.6	3767926	2.425E-08	1.24E-09	0.00E+00	2.55E-08	2.43E-08	1.24E-09	0.00E+00	2.55E-08	7.26E-09	2.24E-10	0.00E+00	7.49E-09	2.75E-09	7.22E-11	0.00E+00	2.82E-09
3526	457019.2	3767917	2.479E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.43E-09	2.29E-10	0.00E+00	7.65E-09	2.81E-09	7.38E-11	0.00E+00	2.89E-09
3527	457022.8	3767908	2.532E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.58E-09	2.33E-10	0.00E+00	7.82E-09	2.87E-09	7.54E-11	0.00E+00	2.95E-09
3528	457026.4	3767899	2.584E-08	1.32E-09	0.00E+00	2.72E-08	2.58E-08	1.32E-09	0.00E+00	2.72E-08	7.74E-09	2.38E-10	0.00E+00	7.98E-09	2.93E-09	7.69E-11	0.00E+00	3.01E-09
3529	457030.1	3767891	2.632E-08	1.35E-09	0.00E+00	2.77E-08	2.63E-08	1.35E-09	0.00E+00	2.77E-08	7.88E-09	2.43E-10	0.00E+00	8.13E-09	2.99E-09	7.83E-11	0.00E+00	3.06E-09
3530	457033.7	3767882	2.677E-08	1.37E-09	0.00E+00	2.81E-08	2.68E-08	1.37E-09	0.00E+00	2.81E-08	8.02E-09	2.47E-10	0.00E+00	8.27E-09	3.04E-09	7.97E-11	0.00E+00	3.12E-09
3531	457037.3	3767873	2.721E-08	1.39E-09	0.00E+00	2.86E-08	2.72E-08	1.39E-09	0.00E+00	2.86E-08	8.15E-09	2.51E-10	0.00E+00	8.40E-09	3.09E-09	8.10E-11	0.00E+00	3.17E-09
3532	457040.9	3767864	2.762E-08	1.42E-09	0.00E+00	2.90E-08	2.76E-08	1.42E-09	0.00E+00	2.90E-08	8.27E-09	2.55E-10	0.00E+00	8.53E-09	3.13E-09	8.22E-11	0.00E+00	3.22E-09
3533	457044.5	3767855	2.8E-08	1.44E-09	0.00E+00	2.94E-08	2.80E-08	1.44E-09	0.00E+00	2.94E-08	8.39E-09	2.58E-10	0.00E+00	8.64E-09	3.18E-09	8.33E-11	0.00E+00	3.26E-09
3534	457048.2	3767846	2.835E-08	1.45E-09	0.00E+00	2.98E-08	2.84E-08	1.45E-09	0.00E+00	2.98E-08	8.49E-09	2.61E-10	0.00E+00	8.75E-09	3.22E-09	8.44E-11	0.00E+00	3.30E-09
3535	457051.8	3767837	2.867E-08	1.47E-09	0.00E+00	3.01E-08	2.87E-08	1.47E-09	0.00E+00	3.01E-08	8.59E-09	2.64E-10	0.00E+00	8.85E-09	3.25E-09	8.53E-11	0.00E+00	3.34E-09
3536	457055.4	3767828	2.896E-08	1.48E-09	0.00E+00	3.04E-08	2.90E-08	1.48E-09	0.00E+00	3.04E-08	8.67E-09	2.67E-10	0.00E+00	8.94E-09	3.29E-09	8.62E-11	0.00E+00	3.37E-09
3537	457059	3767819	2.922E-08	1.50E-09	0.00E+00	3.07E-08	2.92E-08	1.50E-09	0.00E+00	3.07E-08	8.75E-09	2.69E-10	0.00E+00	9.02E-09	3.32E-09	8.70E-11	0.00E+00	3.40E-09
3538	457062.6	3767811	2.945E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.82E-09	2.71E-10	0.00E+00	9.09E-09	3.34E-09	8.76E-11	0.00E+00	3.43E-09
3539	457066.3	3767802	2.965E-08	1.52E-09	0.00E+00	3.12E-08	2.96E-08	1.52E-09	0.00E+00	3.12E-08	8.88E-09	2.73E-10	0.00E+00	9.15E-09	3.36E-09	8.82E-11	0.00E+00	3.45E-09
3540	457069.9	3767793	2.981E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.93E-09	2.75E-10	0.00E+00	9.20E-09	3.38E-09	8.87E-11	0.00E+00	3.47E-09
3541	457082.4	3767780	3.072E-08	1.58E-09	0.00E+00	3.23E-08	3.07E-08	1.58E-09	0.00E+00	3.23E-08	9.20E-09	2.83E-10	0.00E+00	9.48E-09	3.49E-09	9.14E-11	0.00E+00	3.58E-09
3542	457091.2	3767776	3.149E-08	1.61E-09	0.00E+00	3.31E-08	3.15E-08	1.61E-09	0.00E+00	3.31E-08	9.43E-09	2.90E-10	0.00E+00	9.72E-09	3.57E-09	9.37E-11	0.00E+00	3.67E-09
3543	457100.1	3767773	3.226E-08	1.65E-09	0.00E+00	3.39E-08	3.23E-08	1.65E-09	0.00E+00	3.39E-08	9.66E-09	2.97E-10	0.00E+00	9.96E-09	3.66E-09	9.60E-11	0.00E+00	3.76E-09
3544	457108.9	3767769	3.3E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.88E-09	3.04E-10	0.00E+00	1.02E-08	3.74E-09	9.82E-11	0.00E+00	3.84E-09
3545	457117.8	3767765	3.373E-08	1.73E-09	0.00E+00	3.55E-08	3.37E-08	1.73E-09	0.00E+00	3.55E-08	1.01E-08	3.11E-10	0.00E+00	1.04E-08	3.83E-09	1.00E-10	0.00E+00	3.93E-09
3546	457126.7	3767762	3.444E-08	1.77E-09	0.00E+00	3.62E-08	3.44E-08	1.77E-09	0.00E+00	3.62E-08	1.03E-08	3.18E-10	0.00E+00	1.06E-08	3.91E-09	1.02E-10	0.00E+00	4.01E-09
3547	457135.5	3767758	3.513E-08	1.80E-09	0.00E+00	3.69E-08	3.51E-08	1.80E-09	0.00E+00	3.69E-08	1.05E-08	3.24E-10	0.00E+00	1.08E-08	3.99E-09	1.05E-10	0.00E+00	4.09E-09
3548	457144.4	3767754	3.579E-08	1.83E-09	0.00E+00	3.76E-08	3.58E-08	1.83E-09	0.00E+00	3.76E-08	1.07E-08	3.30E-10	0.00E+00	1.10E-08	4.06E-09	1.06E-10	0.00E+00	4.17E-09
3549	457153.2	3767751	3.642E-08	1.87E-09	0.00E+00	3.83E-08	3.64E-08	1.87E-09	0.00E+00	3.83E-08	1.09E-08	3.36E-10	0.00E+00	1.12E-08	4.13E-09	1.08E-10	0.00E+00	4.24E-09
3550	457162.1	3767747	3.704E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
3551	457171	3767743	3.762E-08	1.93E-09	0.00E+00	3.95E-08	3.76E-08	1.93E-09	0.00E+00	3.95E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.38E-09
3552	457179.8	3767739	3.815E-08	1.96E-09	0.00E+00	4.01E-08	3.81E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.44E-09
3553	457188.7	3767736	3.862E-08	1.98E-09	0.00E+00	4.06E-08	3.86E-08	1.98E-09	0.00E+00	4.06E-08	1.16E-08	3.56E-10	0.00E+00	1.19E-08	4.38E-09	1.15E-10	0.00E+00	4.50E-09
3554	457197.5	3767732	3.904E-08	2.00E-09	0.00E+00	4.10E-08	3.90E-08	2.00E-09	0.00E+00	4.10E-08	1.17E-08	3.60E-10	0.00E+00	1.21E-08	4.43E-09	1.16E-10	0.00E+00	4.54E-09
3555	457206.4	3767728	3.941E-08	2.02E-09	0.00E+00	4.14E-08	3.94E-08	2.02E-09	0.00E+00	4.14E-08	1.18E-08	3.63E-10	0.00E+00	1.22E-08	4.47E-09	1.17E-10	0.00E+00	4.59E-09
3556	457215.3	3767725	3.972E-08	2.04E-09	0.00E+00	4.18E-08	3.97E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.66E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
3557	457224.1	3767721	3.999E-08	2.05E-09	0.00E+00	4.20E-08	4.00E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.69E-10	0.00E+00	1.23E-08	4.54E-09	1.19E-10	0.00E+00	4.66E-09
3558	457233	3767717	4.02E-08	2.06E-09	0.00E+00	4.23E-08	4.02E-08	2.06E-09	0.00E+00	4.23E-08	1.20E-08	3.71E-10	0.00E+00	1.24E-08	4.56E-09	1.20E-10	0.00E+00	4.68E-09
3559	457241.8	3767714	4.035E-08	2.07E-09	0.00E+00	4.24E-08	4.04E-08	2.07E-09	0.00E+00	4.24E-08	1.21E-08	3.72E-10	0.00E+00	1.25E-08	4.58E-09	1.20E-10	0.00E+00	4.70E-09
3560	457250.7	3767710	4.045E-08	2.07E-09	0.00E+00	4.25E-08	4.04E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
3561	457259.6	3767706	4.049E-08	2.08E-09	0.00E+00	4.26E-08	4.05E-08	2.08E-09	0.00E+00	4.26E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
3562	457268.4	3767702	4.047E-08	2.07E-09	0.00E+00	4.25E-08	4.05E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
3563	457277.3	3767699	4.04E-08	2.07E-09	0.00E+00	4.25E-08	4.04E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.72E-10	0.00E+00	1.25E-08	4.58E-09	1.20E-10	0.00E+00	4.70E-09
3564	457286.1	3767695	4.027E-08	2.06E-09	0.00E+00	4.23E-08	4.03E-08	2.06E-09	0.00E+00	4.23E-08	1.21E-08	3.71E-10	0.00E+00	1.24E-08	4.57E-09	1.20E-10	0.00E+00	4.69E-09
3565	456972.1	3768033	1.722E-08	8.83E-10	0.00E+00	1.81E-08	1.72E-08	8.83E-10	0.00E+00	1.81E-08	5.16E-09	1.59E-10	0.00E+00	5.32E-09	1.95E-09	5.12E-11	0.00E+00	2.01E-09
3566	456972.2	3768042	1.689E-08	8.66E-10	0.00E+00	1.78E-08	1.69E-08	8.66E-10	0.00E+00	1.78E-08	5.06E-09	1.56E-10	0.00E+00	5.21E-09	1.92E-09	5.03E-11	0.00E+00	1.97E-09
3567	456972.3	3768052	1.654E-08	8.48E-10	0.00E+00	1.74E-08	1.65E-08	8.48E-10	0.00E+00	1.74E-08	4.96E-09	1.53E-10	0.00E+00	5.11E-09	1.88E-09	4.92E-11	0.00E+00	1.93E-09
3568	456972.4	3768062	1.619E-08	8.30E-10	0.00E+00	1.70E-08	1.62E-08	8.30E-10	0.00E+00	1.70E-08	4.85E-09	1.49E-10	0.00E+00	5.00E-09	1.84E-09	4.82E-11	0.00E+00	1.89E-09
3569	456972.4	3768071	1.583E-08	8.12E-10	0.00E+00	1.66E-08	1.58E-08	8.12E-10	0.00E+00	1.66E-08	4.74E-09	1.46E-10	0.00E+00	4.89E-09	1.80E-09	4.71E-11	0.00E+00	1.84E-09
3570	456972.5	3768081	1.547E-08	7.93E-10	0.00E+00	1.63E-08	1.55E-08	7.93E-10	0.00E+00	1.63E-08	4.63E-09	1.43E-10	0.00E+00	4.78E-09	1.75E-09	4.60E-11	0.00E+00	1.80E-09
3571	456972.6	3768091	1.51E-08	7.74E-10	0.00E+00	1.59E-08	1.51E-08	7.74E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
3572	456972.7	3768100	1.474E-08	7.56E-10	0.00E+00	1.55E-08	1.47E-08	7.56E-10	0.00E+00	1.55E-08	4.41E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.39E-11	0.00E+00	1.72E-09
3573	456972.7	3768110	1.437E-08	7.37E-10	0.00E+00	1.51E-08	1.44E-08	7.37E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.44E-09	1.63E-09	4.28E-11	0.00E+00	1.67E-09
3574	456972.8	3768119	1.401E-08	7.18E-10	0.00E+00	1.47E-08	1.40E-08	7.18E-10	0.00E+00	1.47E-08	4.20E-09	1.29E-10	0.00E+00	4.33E-09	1.59E-09	4.17E-11	0.00E+00	1.63E-09
3575	456972.9	3768129	1.366E-08	7.00E-10	0.00E+00	1.44E-08	1.37E-08	7.00E-10	0.00E+00	1.44E-08	4.09E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09
3576	456973	3768139	1.33E-08	6.82E-10	0.00E+00	1.40E-08	1.33E-08	6.82E-10	0.00E+00	1.40E-08	3.98E-09	1.23E-10	0.00E+00	4.11E-09	1.51E-09	3.96E-11	0.00E+00	1.55E-09
3577	456973	3768148	1.294E-08	6.64E-10	0.00E+00	1.36E-08	1.29E-08	6.64E-10	0.00E+00	1.36E-08	3.88E-09	1.19E-10	0.00E+00	4.00E-09	1.47E-09	3.85E-11	0.00E+00	1.51E-09
3578	456973.1	3768158	1.259E-08	6.45E-10	0.00E+00	1.32E-08	1.26E-08	6.45E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.75E-11	0.00E+00	1.47E-09
3579	456973.2	3768168	1.224E-08	6.28E-10	0.00E+00	1.29E-08	1.22E-08	6.28E-10	0.00E+00	1.29E-08	3.67E-09	1.13E-10	0.00E+00	3.78E-09	1.39E-09	3.64E-11	0.00E+00	1.43E-09
3580	456973.3	3768177	1.19E-08	6.10E-10	0.00E+00	1.25E-08	1.19E-08	6.10E-10	0.00E+00	1.25E-08	3.57E-09	1.10E-10	0.00E+00	3.68E-09	1.35E-09	3.54E-11	0.00E+00	1.39E-09
3581	456973.3	3768187	1.157E-08	5.93E-10	0.00E+00	1.22E-08	1.16E-08	5.93E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09

3582	456973.4	3768196	1.125E-08	5.77E-10	0.00E+00	1.18E-08	1.12E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
3583	456973.5	3768206	1.093E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.27E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.25E-11	0.00E+00	1.27E-09
3584	456973.5	3768216	1.063E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.18E-09	9.80E-11	0.00E+00	3.28E-09	1.21E-09	3.16E-11	0.00E+00	1.24E-09
3585	456973.6	3768225	1.033E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.09E-09	9.52E-11	0.00E+00	3.19E-09	1.17E-09	3.07E-11	0.00E+00	1.20E-09
3586	456973.7	3768235	1.004E-08	5.15E-10	0.00E+00	1.06E-08	1.00E-08	5.15E-10	0.00E+00	1.06E-08	3.01E-09	9.25E-11	0.00E+00	3.10E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
3587	456950.8	3768024	1.608E-08	8.24E-10	0.00E+00	1.69E-08	1.61E-08	8.24E-10	0.00E+00	1.69E-08	4.82E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
3588	456954.4	3768015	1.659E-08	8.50E-10	0.00E+00	1.74E-08	1.66E-08	8.50E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.94E-11	0.00E+00	1.93E-09
3589	456958	3768006	1.71E-08	8.77E-10	0.00E+00	1.80E-08	1.71E-08	8.77E-10	0.00E+00	1.80E-08	5.12E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
3590	456961.6	3767997	1.763E-08	9.04E-10	0.00E+00	1.85E-08	1.76E-08	9.04E-10	0.00E+00	1.85E-08	5.28E-09	1.62E-10	0.00E+00	5.44E-09	2.00E-09	5.25E-11	0.00E+00	2.05E-09
3591	456965.2	3767989	1.815E-08	9.31E-10	0.00E+00	1.91E-08	1.82E-08	9.31E-10	0.00E+00	1.91E-08	5.44E-09	1.67E-10	0.00E+00	5.60E-09	2.06E-09	5.40E-11	0.00E+00	2.11E-09
3592	456968.9	3767980	1.868E-08	9.58E-10	0.00E+00	1.96E-08	1.87E-08	9.58E-10	0.00E+00	1.96E-08	5.60E-09	1.72E-10	0.00E+00	5.77E-09	2.12E-09	5.56E-11	0.00E+00	2.18E-09
3593	456972.5	3767971	1.922E-08	9.85E-10	0.00E+00	2.02E-08	1.92E-08	9.85E-10	0.00E+00	2.02E-08	5.76E-09	1.77E-10	0.00E+00	5.93E-09	2.18E-09	5.72E-11	0.00E+00	2.24E-09
3594	456976.1	3767962	1.975E-08	1.01E-09	0.00E+00	2.08E-08	1.97E-08	1.01E-09	0.00E+00	2.08E-08	5.91E-09	1.82E-10	0.00E+00	6.10E-09	2.24E-09	5.88E-11	0.00E+00	2.30E-09
3595	456979.7	3767953	2.027E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.07E-09	1.87E-10	0.00E+00	6.26E-09	2.30E-09	6.03E-11	0.00E+00	2.36E-09
3596	456983.3	3767944	2.079E-08	1.07E-09	0.00E+00	2.19E-08	2.08E-08	1.07E-09	0.00E+00	2.19E-08	6.23E-09	1.92E-10	0.00E+00	6.42E-09	2.36E-09	6.19E-11	0.00E+00	2.42E-09
3597	456987	3767935	2.131E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.38E-09	1.96E-10	0.00E+00	6.58E-09	2.42E-09	6.34E-11	0.00E+00	2.48E-09
3598	456990.6	3767926	2.182E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.54E-09	2.01E-10	0.00E+00	6.74E-09	2.48E-09	6.49E-11	0.00E+00	2.54E-09
3599	456994.2	3767917	2.232E-08	1.14E-09	0.00E+00	2.35E-08	2.23E-08	1.14E-09	0.00E+00	2.35E-08	6.68E-09	2.06E-10	0.00E+00	6.89E-09	2.53E-09	6.64E-11	0.00E+00	2.60E-09
3600	456997.8	3767909	2.28E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.83E-09	2.10E-10	0.00E+00	7.04E-09	2.59E-09	6.78E-11	0.00E+00	2.65E-09
3601	457001.4	3767900	2.327E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.14E-10	0.00E+00	7.18E-09	2.64E-09	6.92E-11	0.00E+00	2.71E-09
3602	457005.1	3767891	2.373E-08	1.22E-09	0.00E+00	2.49E-08	2.37E-08	1.22E-09	0.00E+00	2.49E-08	7.11E-09	2.19E-10	0.00E+00	7.32E-09	2.69E-09	7.06E-11	0.00E+00	2.76E-09
3603	457008.7	3767882	2.417E-08	1.24E-09	0.00E+00	2.54E-08	2.42E-08	1.24E-09	0.00E+00	2.54E-08	7.24E-09	2.23E-10	0.00E+00	7.46E-09	2.74E-09	7.19E-11	0.00E+00	2.81E-09
3604	457012.3	3767873	2.459E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.37E-09	2.27E-10	0.00E+00	7.59E-09	2.79E-09	7.32E-11	0.00E+00	2.86E-09
3605	457015.9	3767864	2.499E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.49E-09	2.30E-10	0.00E+00	7.72E-09	2.84E-09	7.44E-11	0.00E+00	2.91E-09
3606	457019.5	3767855	2.538E-08	1.30E-09	0.00E+00	2.67E-08	2.54E-08	1.30E-09	0.00E+00	2.67E-08	7.60E-09	2.34E-10	0.00E+00	7.84E-09	2.88E-09	7.55E-11	0.00E+00	2.95E-09
3607	457023.2	3767846	2.574E-08	1.32E-09	0.00E+00	2.71E-08	2.57E-08	1.32E-09	0.00E+00	2.71E-08	7.71E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.66E-11	0.00E+00	3.00E-09
3608	457026.8	3767837	2.608E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.76E-11	0.00E+00	3.04E-09
3609	457030.4	3767829	2.639E-08	1.35E-09	0.00E+00	2.77E-08	2.64E-08	1.35E-09	0.00E+00	2.77E-08	7.90E-09	2.43E-10	0.00E+00	8.15E-09	2.99E-09	7.85E-11	0.00E+00	3.07E-09
3610	457034	3767820	2.668E-08	1.37E-09	0.00E+00	2.80E-08	2.67E-08	1.37E-09	0.00E+00	2.80E-08	7.99E-09	2.46E-10	0.00E+00	8.24E-09	3.03E-09	7.94E-11	0.00E+00	3.11E-09
3611	457037.6	3767811	2.694E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.07E-09	2.48E-10	0.00E+00	8.32E-09	3.06E-09	8.02E-11	0.00E+00	3.14E-09
3612	457041.3	3767802	2.716E-08	1.39E-09	0.00E+00	2.86E-08	2.72E-08	1.39E-09	0.00E+00	2.86E-08	8.14E-09	2.50E-10	0.00E+00	8.39E-09	3.08E-09	8.08E-11	0.00E+00	3.16E-09
3613	457044.9	3767793	2.736E-08	1.40E-09	0.00E+00	2.88E-08	2.74E-08	1.40E-09	0.00E+00	2.88E-08	8.20E-09	2.52E-10	0.00E+00	8.45E-09	3.10E-09	8.14E-11	0.00E+00	3.19E-09
3614	457048.5	3767784	2.754E-08	1.41E-09	0.00E+00	2.89E-08	2.75E-08	1.41E-09	0.00E+00	2.89E-08	8.25E-09	2.54E-10	0.00E+00	8.50E-09	3.12E-09	8.19E-11	0.00E+00	3.21E-09
3615	457052.1	3767775	2.769E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.29E-09	2.55E-10	0.00E+00	8.55E-09	3.14E-09	8.24E-11	0.00E+00	3.22E-09
3616	457064.6	3767763	2.852E-08	1.46E-09	0.00E+00	3.00E-08	2.85E-08	1.46E-09	0.00E+00	3.00E-08	8.54E-09	2.63E-10	0.00E+00	8.80E-09	3.24E-09	8.49E-11	0.00E+00	3.32E-09
3617	457073.5	3767759	2.921E-08	1.50E-09	0.00E+00	3.07E-08	2.92E-08	1.50E-09	0.00E+00	3.07E-08	8.75E-09	2.69E-10	0.00E+00	9.02E-09	3.31E-09	8.69E-11	0.00E+00	3.40E-09
3618	457082.3	3767755	2.989E-08	1.53E-09	0.00E+00	3.14E-08	2.99E-08	1.53E-09	0.00E+00	3.14E-08	8.95E-09	2.76E-10	0.00E+00	9.23E-09	3.39E-09	8.90E-11	0.00E+00	3.48E-09
3619	457091.2	3767751	3.056E-08	1.57E-09	0.00E+00	3.21E-08	3.06E-08	1.57E-09	0.00E+00	3.21E-08	9.15E-09	2.82E-10	0.00E+00	9.44E-09	3.47E-09	9.10E-11	0.00E+00	3.56E-09
3620	457100	3767748	3.122E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.35E-09	2.88E-10	0.00E+00	9.64E-09	3.54E-09	9.29E-11	0.00E+00	3.64E-09
3621	457108.9	3767744	3.186E-08	1.63E-09	0.00E+00	3.35E-08	3.19E-08	1.63E-09	0.00E+00	3.35E-08	9.54E-09	2.94E-10	0.00E+00	9.84E-09	3.62E-09	9.48E-11	0.00E+00	3.71E-09
3622	457117.8	3767740	3.248E-08	1.66E-09	0.00E+00	3.41E-08	3.25E-08	1.66E-09	0.00E+00	3.41E-08	9.73E-09	2.99E-10	0.00E+00	1.00E-08	3.68E-09	9.66E-11	0.00E+00	3.78E-09
3623	457126.6	3767737	3.307E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.91E-09	3.05E-10	0.00E+00	1.02E-08	3.75E-09	9.84E-11	0.00E+00	3.85E-09
3624	457135.5	3767733	3.365E-08	1.73E-09	0.00E+00	3.54E-08	3.36E-08	1.73E-09	0.00E+00	3.54E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.82E-09	1.00E-10	0.00E+00	3.92E-09
3625	457144.3	3767729	3.42E-08	1.75E-09	0.00E+00	3.60E-08	3.42E-08	1.75E-09	0.00E+00	3.60E-08	1.02E-08	3.15E-10	0.00E+00	1.06E-08	3.88E-09	1.02E-10	0.00E+00	3.98E-09
3626	457153.2	3767726	3.473E-08	1.78E-09	0.00E+00	3.65E-08	3.47E-08	1.78E-09	0.00E+00	3.65E-08	1.04E-08	3.20E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.04E-09
3627	457162.1	3767722	3.524E-08	1.81E-09	0.00E+00	3.70E-08	3.52E-08	1.81E-09	0.00E+00	3.70E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
3628	457170.9	3767718	3.57E-08	1.83E-09	0.00E+00	3.75E-08	3.57E-08	1.83E-09	0.00E+00	3.75E-08	1.07E-08	3.29E-10	0.00E+00	1.10E-08	4.05E-09	1.06E-10	0.00E+00	4.16E-09
3629	457179.8	3767714	3.612E-08	1.85E-09	0.00E+00	3.80E-08	3.61E-08	1.85E-09	0.00E+00	3.80E-08	1.08E-08	3.33E-10	0.00E+00	1.12E-08	4.10E-09	1.07E-10	0.00E+00	4.21E-09
3630	457188.6	3767711	3.648E-08	1.87E-09	0.00E+00	3.84E-08	3.65E-08	1.87E-09	0.00E+00	3.84E-08	1.09E-08	3.36E-10	0.00E+00	1.13E-08	4.14E-09	1.09E-10	0.00E+00	4.25E-09
3631	457197.5	3767707	3.68E-08	1.89E-09	0.00E+00	3.87E-08	3.68E-08	1.89E-09	0.00E+00	3.87E-08	1.10E-08	3.39E-10	0.00E+00	1.14E-08	4.18E-09	1.10E-10	0.00E+00	4.28E-09
3632	457206.4	3767703	3.708E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
3633	457215.2	3767700	3.732E-08	1.91E-09	0.00E+00	3.92E-08	3.73E-08	1.91E-09	0.00E+00	3.92E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.23E-09	1.11E-10	0.00E+00	4.34E-09
3634	457224.1	3767696	3.75E-08	1.92E-09	0.00E+00	3.94E-08	3.75E-08	1.92E-09	0.00E+00	3.94E-08	1.12E-08	3.46E-10	0.00E+00	1.16E-08	4.25E-09	1.12E-10	0.00E+00	4.37E-09
3635	457232.9	3767692	3.763E-08	1.93E-09	0.00E+00	3.96E-08	3.76E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.38E-09
3636	457241.8	3767689	3.771E-08	1.93E-09	0.00E+00	3.96E-08	3.77E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.48E-10	0.00E+00	1.16E-08	4.28E-09	1.12E-10	0.00E+00	4.39E-09
3637	457250.7	3767685	3.775E-08	1.94E-09	0.00E+00	3.97E-08	3.77E-08	1.94E-09	0.00E+00	3.97E-08	1.13E-08	3.48E-10	0.00E+00	1.17E-08	4.28E-09	1.12E-10	0.00E+00	4.39E-09
3638	457259.5	3767681	3.773E-08	1.93E-09	0.00E+00	3.97E-08	3.77E-08	1.93E-09	0.00E+00	3.97E-08	1.13E-08	3.48E-10	0.00E+00	1.16E-08	4.28E-09	1.12E-10	0.00E+00	4.39E-09
3639	457268.4	3767677	3.767E-08	1.93E-09	0.00E+00	3.96E-08	3.77E-08	1.93E-09	0.00E+00	3.96E-08	1.13E-08	3.47E-10	0.00E+00	1.16E-08	4.27E-09	1.12E-10	0.00E+00	4.39E-09
3640	457277.2	3767674	3.755E-08	1.93E-09	0.00E+00	3.95E-08	3.76E-08	1.93E-09	0.00E+00	3.95E-08	1.12E-08	3.46E-10	0.00E+00	1.16E-08	4.26E-09	1.12E-10	0.00E+00	4.37E-09
3641	457286.1	3767670	3.739E-08	1.92E-09	0.00E+00	3.93E-08	3.74E-08	1.92E-09	0.00E+00	3.93E-08	1.12E-08	3.45E-10	0.00E+00	1.15E-08	4.24E-09	1.11E-10	0.00E+00	4.35E-09
3642	456947.1	3768033	1.558E-08	7.99E-10	0.00E+00	1.64E-08	1.56E-08	7.99E-10	0.00E+00	1.64E-08	4.67E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.64E-11	0.00E+00	1.81E-09
3643	456947.2	3768043	1.528E-08	7.83E-10	0.00E+00	1.61E-08	1.53E-08	7.83E-10	0.00E+00	1.61E-08	4.58E-09	1.41E-10	0.00E+00	4.72E-09	1.73E-09	4.55E-11	0.00E+00	1.78E-09
3644	456947.3	3768052	1.498E-08	7.68E-10	0.00E+00	1.57E-08	1.50E-08	7.68E-10	0.00E+00	1.57E-08	4.49E-09	1.38E-10	0.00E+00	4.62E-09	1.70E-09	4.46E-11	0.00E+00	1.74E-09
3645	456947.4	3768062	1.467E-08	7.52E-10	0.00E+00	1.54E-08	1.47E-08	7.52E-10	0.00E+00	1.54E-08	4.39E-09	1.35E-10	0.00E+00	4.53E-09	1.66E-09	4.37E-11	0.00E+00	1.71E-09
3646	456947.4	3768072	1.436E-08	7.36E-10	0.00E+00	1.51E-08	1.44E-08	7.36E-10	0.00E+00	1.51E-08	4.30E-09	1.32E-10	0.00E+00	4.43E-09	1.63E-09	4.27E-11	0.00E+00	1.67E-09
3647	456947.5	3768081	1.405E-08	7.20E-10	0.00E+00	1.48E-08	1.40E-08	7.20E-10	0.00E+00	1.48E-08	4.21E-09	1.29E-10	0.00E+00	4.34E-09	1.59E-09	4.18E-11	0.00E+00	1.64E-09
3648	456947.6	3768091	1.373E-08	7.04E-10	0.00E+00	1.44E-08	1.37E-08	7.04E-10	0.00E+00	1.44E-08	4.11E-09	1.27E-10	0.00E+00	4.24E-09	1.56E-09	4.08E-11	0.00E+00	1.60E-09
3649	456947.7	3768100	1.341E-08	6.87E-10	0.00E+00	1.41E-08	1.34E-08	6.87E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
3650	456947.7	3768110	1.309E-08	6.71E-10	0.00E+00	1.38E-08	1.31E-08	6.71E-10	0.00E+00	1.38E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
3651	456947.8	3768120	1.277E-08	6.55E-10	0.00E+00	1.34E-08	1.28E-08	6.55E-10	0.00E+00	1.34E-08	3.82E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
3652	456947.9	3768129	1.246E-08	6.39E-10	0.00E+00	1.31E-08	1.25E-08	6.39E-10	0.00E+00	1.31E-08	3.73E-09	1.15E-10	0.00E+00	3.85E-09	1.41E-09	3.71E-11	0.00E+00	1.45E-09
3653	456948	3768139	1.214E-08	6.23E-10	0.00E+00	1.28E-08	1.21E-08	6.23E-10	0.00E+00	1.28E-08	3.64E-09	1.12E-10	0.00E+00	3.75E-09	1.38E-09	3.61E-11	0.00E+00	1.41E-09
3654	456948	3768148	1.184E-08	6.07E-10	0.00E+00	1.24E-08	1.18E-08	6.07E-10	0.00E+00	1.24E-08	3.55E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
3655	456948.1	3768158	1.154E-08	5.91E-10	0.00E+00	1.21E-08	1.15E-08	5.91E-10	0.00E+00	1.21E-08	3.45E-09	1.06E-10	0.00E+00	3.56E-09	1.31E-09	3.43E-11	0.00E+00	1.34E-09
3656	456948.2	3768168	1.124E-08	5.76E-10	0.00E+00	1.18E-08	1.12E-08	5.76E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.27E-09	3.34E-11	0.00E+00	1.31E-09
3657	456948.3	3768177	1.094E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.27E-09
3658	456948.3	3768187	1.065E-08	5.46E-10	0.00E+00	1.12E-08	1.07E-08	5.46E-10	0.00E+00	1.12E-08	3.19E-09	9.82E-11	0.00E+00	3.29E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
3659	456948.4	3768197	1.037E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.11E-09	9.56E-11	0.00E+00	3.20E-09	1.18E-09	3.08E-11	0.00E+00	1.21E-09
3660	456948.5	3768206	1.009E-08	5.17E-10	0.00E+00	1.06E-08	1.01E-08	5.17E-10	0.00E+00	1.06E-08	3.02E-09	9.30E-11	0.00E+00	3.12E-09	1.14E-09	3.00E-11	0.00E+00	1.17E-09
3661	456948.5	3768216	9.821E-09	5.04E-10	0.00E+00	1.03E-08	9.82E-09	5.04E-10	0.00E+00	1.03E-08	2.94E-09	9.05E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
3662	456948.6	3768225	9.559E-09	4.90E-10	0.00E+00	1.00E-08	9.56E-09	4.90E-10	0.00E+00	1.00E-08	2.86E-09	8.81E-11	0.00E+00	2.95E-09	1.08E-09	2.84E-11	0.00E+00	1.11E-09
3663	456948.7	3768235	9.305E-09	4.77E-10	0.00E+00	9.78E-09	9.31E-09	4.77E-10	0.00E+00	9.78E-09	2.79E-09	8.58E-11	0.00E+00	2.87E-09	1.06E-09	2.77E-11	0.00E+00	1.08E-09
3664	456925.8	3768024	1.462E-08	7.49E-10	0.00E+00	1.54E-08	1.46E-08	7.49E-10	0.00E+00	1.54E-08	4.38E-09	1.35E-10	0.00E+00	4.51E-09	1.66E-09	4.35E-11	0.00E+00	1.70E-09
3665	456929.4	3768015	1.507E-08	7.72E-10	0.00E+00	1.58E-08	1.51E-08	7.72E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
3666	456933	3768007	1.552E-08	7.96E-10	0.00E+00	1.63E-08	1.55E-08	7.96E-10	0.00E+00	1.63E-08	4.65E-09	1.43E-10	0.00E+00	4.79E-09	1.76E-09	4.62E-11	0.00E+00	1.81E-09
3667	456936.6	3767998	1.598E-08	8.19E-10	0.00E+00	1.68E-08	1.60E-08	8.19E-10	0.00E+00	1.68E-08	4.79E-09	1.47E-10	0.00E+00	4.93E-09	1.81E-09	4.76E-11	0.00E+00	1.86E-09
3668	456940.2	3767989	1.645E-08	8.43E-10	0.00E+00	1.73E-08	1.65E-08	8.43E-10	0.00E+00	1.73E-08	4.93E-09	1.52E-10	0.00E+00	5.08E-09	1.87E-09	4.90E-11	0.00E+00	1.92E-09
3669	456943.9	3767980	1.692E-08	8.67E-10	0.00E+00	1.78E-08	1.69E-08	8.67E-10	0.00E+00	1.78E-08	5.07E-09	1.56E-10	0.00E+00	5.22E-09	1.92E-09	5.04E-11	0.00E+00	1.97E-09
3670	456947.5	3767971	1.739E-08	8.92E-10	0.00E+00	1.83E-08	1.74E-08	8.92E-10	0.00E+00	1.83E-08	5.21E-09	1.60E-10	0.00E+00	5.37E-09	1.97E-09	5.18E-11	0.00E+00	2.03E-09
3671	456951.1	3767962	1.787E-08	9.16E-10	0.00E+00	1.88E-08	1.79E-08	9.16E-10	0.00E+00	1.88E-08	5.35E-09	1.65E-10	0.00E+00	5.52E-09	2.03E-09	5.32E-11	0.00E+00	2.08E-09
3672	456954.7	3767953	1.834E-08	9.40E-10	0.00E+00	1.93E-08	1.83E-08	9.40E-10	0.00E+00	1.93E-08	5.49E-09	1.69E-10	0.00E+00	5.66E-09	2.08E-09	5.46E-11	0.00E+00	2.13E-09
3673	456958.3	3767944	1.88E-08	9.64E-10	0.00E+00	1.98E-08	1.88E-08	9.64E-10	0.00E+00	1.98E-08	5.63E-09	1.73E-10	0.00E+00	5.80E-09	2.13E-09	5.59E-11	0.00E+00	2.19E-09
3674	456962	3767935	1.926E-08	9.87E-10	0.00E+00	2.02E-08	1.93E-08	9.87E-10	0.00E+00	2.02E-08	5.77E-09	1.78E-10	0.00E+00	5.94E-09	2.18E-09	5.73E-11	0.00E+00	2.24E-09
3675	456965.6	3767927	1.971E-08	1.01E-09	0.00E+00	2.07E-08	1.97E-08	1.01E-09	0.00E+00	2.07E-08	5.90E-09	1.82E-10	0.00E+00	6.08E-09	2.24E-09	5.86E-11	0.00E+00	2.29E-09
3676	456969.2	3767918	2.017E-08	1.03E-09	0.00E+00	2.12E-08	2.02E-08	1.03E-09	0.00E+00	2.12E-08	6.04E-09	1.86E-10	0.00E+00	6.23E-09	2.29E-09	6.00E-11	0.00E+00	2.35E-09
3677	456972.8	3767909	2.062E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.18E-09	1.90E-10	0.00E+00	6.37E-09	2.34E-09	6.14E-11	0.00E+00	2.40E-09
3678	456976.4	3767900	2.106E-08	1.08E-09	0.00E+00	2.21E-08	2.11E-08	1.08E-09	0.00E+00	2.21E-08	6.31E-09	1.94E-10	0.00E+00	6.50E-09	2.39E-09	6.27E-11	0.00E+00	2.45E-09
3679	456980.1	3767891	2.149E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
3680	456983.7	3767882	2.19E-08	1.12E-09	0.00E+00	2.30E-08	2.19E-08	1.12E-09	0.00E+00	2.30E-08	6.56E-09	2.02E-10	0.00E+00	6.76E-09	2.49E-09	6.52E-11	0.00E+00	2.55E-09
3681	456987.3	3767873	2.231E-08	1.14E-09	0.00E+00	2.35E-08	2.23E-08	1.14E-09	0.00E+00	2.35E-08	6.68E-09	2.06E-10	0.00E+00	6.89E-09	2.53E-09	6.64E-11	0.00E+00	2.60E-09
3682	456990.9	3767864	2.27E-08	1.16E-09	0.00E+00	2.39E-08	2.27E-08	1.16E-09	0.00E+00	2.39E-08	6.80E-09	2.09E-10	0.00E+00	7.01E-09	2.58E-09	6.75E-11	0.00E+00	2.64E-09
3683	456994.5	3767855	2.307E-08	1.18E-09	0.00E+00	2.43E-08	2.31E-08	1.18E-09	0.00E+00	2.43E-08	6.91E-09	2.13E-10	0.00E+00	7.12E-09	2.62E-09	6.87E-11	0.00E+00	2.69E-09
3684	456998.2	3767846	2.343E-08	1.20E-09	0.00E+00	2.46E-08	2.34E-08	1.20E-09	0.00E+00	2.46E-08	7.02E-09	2.16E-10	0.00E+00	7.23E-09	2.66E-09	6.97E-11	0.00E+00	2.73E-09
3685	457001.8	3767838	2.377E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.12E-09	2.19E-10	0.00E+00	7.34E-09	2.70E-09	7.07E-11	0.00E+00	2.77E-09
3686	457005.4	3767829	2.407E-08	1.23E-09	0.00E+00	2.53E-08	2.41E-08	1.23E-09	0.00E+00	2.53E-08	7.21E-09	2.22E-10	0.00E+00	7.43E-09	2.73E-09	7.16E-11	0.00E+00	2.80E-09
3687	457009	3767820	2.436E-08	1.25E-09	0.00E+00	2.56E-08	2.44E-08	1.25E-09	0.00E+00	2.56E-08	7.30E-09	2.25E-10	0.00E+00	7.52E-09	2.76E-09	7.25E-11	0.00E+00	2.84E-09
3688	457012.6	3767811	2.463E-08	1.26E-09	0.00E+00	2.59E-08	2.46E-08	1.26E-09	0.00E+00	2.59E-08	7.38E-09	2.27E-10	0.00E+00	7.60E-09	2.79E-09	7.33E-11	0.00E+00	2.87E-09
3689	457016.3	3767802	2.488E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.45E-09	2.29E-10	0.00E+00	7.68E-09	2.82E-09	7.40E-11	0.00E+00	2.90E-09
3690	457019.9	3767793	2.511E-08	1.29E-09	0.00E+00	2.64E-08	2.51E-08	1.29E-09	0.00E+00	2.64E-08	7.52E-09	2.31E-10	0.00E+00	7.75E-09	2.85E-09	7.47E-11	0.00E+00	2.92E-09
3691	457023.5	3767784	2.531E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.58E-09	2.33E-10	0.00E+00	7.81E-09	2.87E-09	7.53E-11	0.00E+00	2.95E-09
3692	457027.1	3767775	2.548E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.63E-09	2.35E-10	0.00E+00	7.87E-09	2.89E-09	7.58E-11	0.00E+00	2.97E-09
3693	457030.7	3767766	2.564E-08	1.31E-09	0.00E+00	2.70E-08	2.56E-08	1.31E-09	0.00E+00	2.70E-08	7.68E-09	2.36E-10	0.00E+00	7.92E-09	2.91E-09	7.63E-11	0.00E+00	2.99E-09

3694	457034.4	3767758	2.578E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.72E-09	2.38E-10	0.00E+00	7.96E-09	2.93E-09	7.67E-11	0.00E+00	3.00E-09
3695	457046.8	3767745	2.654E-08	1.36E-09	0.00E+00	2.79E-08	2.65E-08	1.36E-09	0.00E+00	2.79E-08	7.95E-09	2.45E-10	0.00E+00	8.19E-09	3.01E-09	7.90E-11	0.00E+00	3.09E-09
3696	457055.7	3767741	2.717E-08	1.39E-09	0.00E+00	2.86E-08	2.72E-08	1.39E-09	0.00E+00	2.86E-08	8.14E-09	2.50E-10	0.00E+00	8.39E-09	3.08E-09	8.09E-11	0.00E+00	3.16E-09
3697	457064.6	3767738	2.779E-08	1.42E-09	0.00E+00	2.92E-08	2.78E-08	1.42E-09	0.00E+00	2.92E-08	8.32E-09	2.56E-10	0.00E+00	8.58E-09	3.15E-09	8.27E-11	0.00E+00	3.24E-09
3698	457073.4	3767734	2.839E-08	1.46E-09	0.00E+00	2.98E-08	2.84E-08	1.46E-09	0.00E+00	2.98E-08	8.50E-09	2.62E-10	0.00E+00	8.77E-09	3.22E-09	8.45E-11	0.00E+00	3.31E-09
3699	457082.3	3767730	2.899E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.68E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.63E-11	0.00E+00	3.38E-09
3700	457091.1	3767726	2.958E-08	1.52E-09	0.00E+00	3.11E-08	2.96E-08	1.52E-09	0.00E+00	3.11E-08	8.86E-09	2.73E-10	0.00E+00	9.13E-09	3.36E-09	8.80E-11	0.00E+00	3.44E-09
3701	457100	3767723	3.014E-08	1.54E-09	0.00E+00	3.17E-08	3.01E-08	1.54E-09	0.00E+00	3.17E-08	9.03E-09	2.78E-10	0.00E+00	9.30E-09	3.42E-09	8.97E-11	0.00E+00	3.51E-09
3702	457108.9	3767719	3.066E-08	1.57E-09	0.00E+00	3.22E-08	3.07E-08	1.57E-09	0.00E+00	3.22E-08	9.18E-09	2.83E-10	0.00E+00	9.47E-09	3.48E-09	9.12E-11	0.00E+00	3.57E-09
3703	457117.7	3767715	3.117E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.33E-09	2.87E-10	0.00E+00	9.62E-09	3.54E-09	9.27E-11	0.00E+00	3.63E-09
3704	457126.6	3767712	3.168E-08	1.62E-09	0.00E+00	3.33E-08	3.17E-08	1.62E-09	0.00E+00	3.33E-08	9.49E-09	2.92E-10	0.00E+00	9.78E-09	3.59E-09	9.43E-11	0.00E+00	3.69E-09
3705	457135.4	3767708	3.218E-08	1.65E-09	0.00E+00	3.38E-08	3.22E-08	1.65E-09	0.00E+00	3.38E-08	9.64E-09	2.97E-10	0.00E+00	9.93E-09	3.65E-09	9.58E-11	0.00E+00	3.75E-09
3706	457144.3	3767704	3.265E-08	1.67E-09	0.00E+00	3.43E-08	3.26E-08	1.67E-09	0.00E+00	3.43E-08	9.78E-09	3.01E-10	0.00E+00	1.01E-08	3.70E-09	9.72E-11	0.00E+00	3.80E-09
3707	457153.2	3767701	3.309E-08	1.70E-09	0.00E+00	3.48E-08	3.31E-08	1.70E-09	0.00E+00	3.48E-08	9.91E-09	3.05E-10	0.00E+00	1.02E-08	3.75E-09	9.84E-11	0.00E+00	3.85E-09
3708	457162	3767697	3.348E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.96E-11	0.00E+00	3.90E-09
3709	457170.9	3767693	3.383E-08	1.73E-09	0.00E+00	3.56E-08	3.38E-08	1.73E-09	0.00E+00	3.56E-08	1.01E-08	3.12E-10	0.00E+00	1.04E-08	3.84E-09	1.01E-10	0.00E+00	3.94E-09
3710	457179.8	3767689	3.415E-08	1.75E-09	0.00E+00	3.59E-08	3.41E-08	1.75E-09	0.00E+00	3.59E-08	1.02E-08	3.15E-10	0.00E+00	1.05E-08	3.87E-09	1.02E-10	0.00E+00	3.98E-09
3711	457188.6	3767686	3.444E-08	1.77E-09	0.00E+00	3.62E-08	3.44E-08	1.77E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.91E-09	1.02E-10	0.00E+00	4.01E-09
3712	457197.5	3767682	3.47E-08	1.78E-09	0.00E+00	3.65E-08	3.47E-08	1.78E-09	0.00E+00	3.65E-08	1.04E-08	3.20E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.04E-09
3713	457206.3	3767678	3.491E-08	1.79E-09	0.00E+00	3.67E-08	3.49E-08	1.79E-09	0.00E+00	3.67E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.96E-09	1.04E-10	0.00E+00	4.06E-09
3714	457215.2	3767675	3.508E-08	1.80E-09	0.00E+00	3.69E-08	3.51E-08	1.80E-09	0.00E+00	3.69E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.98E-09	1.04E-10	0.00E+00	4.08E-09
3715	457224.1	3767671	3.519E-08	1.80E-09	0.00E+00	3.70E-08	3.52E-08	1.80E-09	0.00E+00	3.70E-08	1.05E-08	3.24E-10	0.00E+00	1.09E-08	3.99E-09	1.05E-10	0.00E+00	4.10E-09
3716	457232.9	3767667	3.526E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.11E-09
3717	457241.8	3767664	3.529E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.11E-09
3718	457250.6	3767660	3.527E-08	1.81E-09	0.00E+00	3.71E-08	3.53E-08	1.81E-09	0.00E+00	3.71E-08	1.06E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.11E-09
3719	457259.5	3767656	3.521E-08	1.81E-09	0.00E+00	3.70E-08	3.52E-08	1.81E-09	0.00E+00	3.70E-08	1.05E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
3720	457268.4	3767652	3.511E-08	1.80E-09	0.00E+00	3.69E-08	3.51E-08	1.80E-09	0.00E+00	3.69E-08	1.05E-08	3.24E-10	0.00E+00	1.08E-08	3.98E-09	1.04E-10	0.00E+00	4.09E-09
3721	457277.2	3767649	3.497E-08	1.79E-09	0.00E+00	3.68E-08	3.50E-08	1.79E-09	0.00E+00	3.68E-08	1.05E-08	3.22E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.07E-09
3722	457286.1	3767645	3.479E-08	1.78E-09	0.00E+00	3.66E-08	3.48E-08	1.78E-09	0.00E+00	3.66E-08	1.04E-08	3.21E-10	0.00E+00	1.07E-08	3.95E-09	1.04E-10	0.00E+00	4.05E-09
3723	456922.1	3768033	1.418E-08	7.27E-10	0.00E+00	1.49E-08	1.42E-08	7.27E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.38E-09	1.61E-09	4.22E-11	0.00E+00	1.65E-09
3724	456922.2	3768043	1.391E-08	7.13E-10	0.00E+00	1.46E-08	1.39E-08	7.13E-10	0.00E+00	1.46E-08	4.17E-09	1.28E-10	0.00E+00	4.29E-09	1.58E-09	4.14E-11	0.00E+00	1.62E-09
3725	456922.3	3768053	1.364E-08	6.99E-10	0.00E+00	1.43E-08	1.36E-08	6.99E-10	0.00E+00	1.43E-08	4.09E-09	1.26E-10	0.00E+00	4.21E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09
3726	456922.4	3768062	1.337E-08	6.86E-10	0.00E+00	1.41E-08	1.34E-08	6.86E-10	0.00E+00	1.41E-08	4.01E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
3727	456922.4	3768072	1.31E-08	6.72E-10	0.00E+00	1.38E-08	1.31E-08	6.72E-10	0.00E+00	1.38E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.49E-09	3.90E-11	0.00E+00	1.53E-09
3728	456922.5	3768081	1.282E-08	6.57E-10	0.00E+00	1.35E-08	1.28E-08	6.57E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.45E-09	3.82E-11	0.00E+00	1.49E-09
3729	456922.6	3768091	1.254E-08	6.43E-10	0.00E+00	1.32E-08	1.25E-08	6.43E-10	0.00E+00	1.32E-08	3.76E-09	1.16E-10	0.00E+00	3.87E-09	1.42E-09	3.73E-11	0.00E+00	1.46E-09
3730	456922.7	3768101	1.226E-08	6.29E-10	0.00E+00	1.29E-08	1.23E-08	6.29E-10	0.00E+00	1.29E-08	3.67E-09	1.13E-10	0.00E+00	3.79E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
3731	456922.7	3768110	1.198E-08	6.14E-10	0.00E+00	1.26E-08	1.20E-08	6.14E-10	0.00E+00	1.26E-08	3.59E-09	1.10E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.39E-09
3732	456922.8	3768120	1.17E-08	6.00E-10	0.00E+00	1.23E-08	1.17E-08	6.00E-10	0.00E+00	1.23E-08	3.50E-09	1.08E-10	0.00E+00	3.61E-09	1.33E-09	3.48E-11	0.00E+00	1.36E-09
3733	456922.9	3768129	1.143E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
3734	456923	3768139	1.115E-08	5.72E-10	0.00E+00	1.17E-08	1.12E-08	5.72E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.44E-09	1.27E-09	3.32E-11	0.00E+00	1.30E-09
3735	456923	3768149	1.088E-08	5.58E-10	0.00E+00	1.14E-08	1.09E-08	5.58E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.23E-09	3.24E-11	0.00E+00	1.27E-09
3736	456923.1	3768158	1.062E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.79E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
3737	456923.2	3768168	1.035E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.54E-11	0.00E+00	3.20E-09	1.17E-09	3.08E-11	0.00E+00	1.21E-09
3738	456923.3	3768178	1.01E-08	5.18E-10	0.00E+00	1.06E-08	1.01E-08	5.18E-10	0.00E+00	1.06E-08	3.02E-09	9.31E-11	0.00E+00	3.12E-09	1.15E-09	3.00E-11	0.00E+00	1.18E-09
3739	456923.3	3768187	9.844E-09	5.05E-10	0.00E+00	1.03E-08	9.84E-09	5.05E-10	0.00E+00	1.03E-08	2.95E-09	9.07E-11	0.00E+00	3.04E-09	1.12E-09	2.93E-11	0.00E+00	1.15E-09
3740	456923.4	3768197	9.596E-09	4.92E-10	0.00E+00	1.01E-08	9.60E-09	4.92E-10	0.00E+00	1.01E-08	2.87E-09	8.85E-11	0.00E+00	2.96E-09	1.09E-09	2.86E-11	0.00E+00	1.12E-09
3741	456923.5	3768206	9.352E-09	4.79E-10	0.00E+00	9.83E-09	9.35E-09	4.79E-10	0.00E+00	9.83E-09	2.80E-09	8.62E-11	0.00E+00	2.89E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09
3742	456923.5	3768216	9.113E-09	4.67E-10	0.00E+00	9.58E-09	9.11E-09	4.67E-10	0.00E+00	9.58E-09	2.73E-09	8.40E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
3743	456923.6	3768226	8.881E-09	4.55E-10	0.00E+00	9.34E-09	8.88E-09	4.55E-10	0.00E+00	9.34E-09	2.66E-09	8.19E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
3744	456923.7	3768235	8.656E-09	4.44E-10	0.00E+00	9.10E-09	8.66E-09	4.44E-10	0.00E+00	9.10E-09	2.59E-09	7.98E-11	0.00E+00	2.67E-09	9.82E-10	2.58E-11	0.00E+00	1.01E-09
3745	456885.7	3768025	1.268E-08	6.50E-10	0.00E+00	1.33E-08	1.27E-08	6.50E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.91E-09	1.44E-09	3.77E-11	0.00E+00	1.48E-09
3746	456889.2	3768016	1.304E-08	6.68E-10	0.00E+00	1.37E-08	1.30E-08	6.68E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.88E-11	0.00E+00	1.52E-09
3747	456892.8	3768007	1.34E-08	6.87E-10	0.00E+00	1.41E-08	1.34E-08	6.87E-10	0.00E+00	1.41E-08	4.01E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
3748	456924.6	3767929	1.683E-08	8.63E-10	0.00E+00	1.77E-08	1.68E-08	8.63E-10	0.00E+00	1.77E-08	5.04E-09	1.55E-10	0.00E+00	5.20E-09	1.91E-09	5.01E-11	0.00E+00	1.96E-09
3749	456928.2	3767921	1.722E-08	8.83E-10	0.00E+00	1.81E-08	1.72E-08	8.83E-10	0.00E+00	1.81E-08	5.16E-09	1.59E-10	0.00E+00	5.31E-09	1.95E-09	5.12E-11	0.00E+00	2.00E-09
3750	456931.7	3767912	1.76E-08	9.02E-10	0.00E+00	1.85E-08	1.76E-08	9.02E-10	0.00E+00	1.85E-08	5.27E-09	1.62E-10	0.00E+00	5.43E-09	2.00E-09	5.24E-11	0.00E+00	2.05E-09
3751	456935.2	3767903	1.798E-08	9.22E-10	0.00E+00	1.89E-08	1.80E-08	9.22E-10	0.00E+00	1.89E-08	5.38E-09	1.66E-10	0.00E+00	5.55E-09	2.04E-09	5.35E-11	0.00E+00	2.09E-09
3752	456938.8	3767894	1.835E-08	9.41E-10	0.00E+00	1.93E-08	1.83E-08	9.41E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.66E-09	2.08E-09	5.46E-11	0.00E+00	2.14E-09
3753	456942.3	3767886	1.872E-08	9.59E-10	0.00E+00	1.97E-08	1.87E-08	9.59E-10	0.00E+00	1.97E-08	5.61E-09	1.73E-10	0.00E+00	5.78E-09	2.12E-09	5.57E-11	0.00E+00	2.18E-09
3754	456945.9	3767877	1.908E-08	9.78E-10	0.00E+00	2.01E-08	1.91E-08	9.78E-10	0.00E+00	2.01E-08	5.71E-09	1.76E-10	0.00E+00	5.89E-09	2.16E-09	5.68E-11	0.00E+00	2.22E-09
3755	456949.4	3767868	1.943E-08	9.96E-10	0.00E+00	2.04E-08	1.94E-08	9.96E-10	0.00E+00	2.04E-08	5.82E-09	1.79E-10	0.00E+00	6.00E-09	2.20E-09	5.78E-11	0.00E+00	2.26E-09
3756	456952.9	3767860	1.976E-08	1.01E-09	0.00E+00	2.08E-08	1.98E-08	1.01E-09	0.00E+00	2.08E-08	5.92E-09	1.82E-10	0.00E+00	6.10E-09	2.24E-09	5.88E-11	0.00E+00	2.30E-09
3757	456956.5	3767851	2.009E-08	1.03E-09	0.00E+00	2.11E-08	2.01E-08	1.03E-09	0.00E+00	2.11E-08	6.02E-09	1.85E-10	0.00E+00	6.20E-09	2.28E-09	5.98E-11	0.00E+00	2.34E-09
3758	456960	3767842	2.041E-08	1.05E-09	0.00E+00	2.15E-08	2.04E-08	1.05E-09	0.00E+00	2.15E-08	6.11E-09	1.88E-10	0.00E+00	6.30E-09	2.32E-09	6.07E-11	0.00E+00	2.38E-09
3759	456963.6	3767834	2.072E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.40E-09	2.35E-09	6.16E-11	0.00E+00	2.41E-09
3760	456967.1	3767825	2.101E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.29E-09	1.94E-10	0.00E+00	6.49E-09	2.38E-09	6.25E-11	0.00E+00	2.45E-09
3761	456970.6	3767816	2.128E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.37E-09	1.96E-10	0.00E+00	6.57E-09	2.41E-09	6.33E-11	0.00E+00	2.48E-09
3762	456974.2	3767807	2.153E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.45E-09	1.98E-10	0.00E+00	6.65E-09	2.44E-09	6.41E-11	0.00E+00	2.51E-09
3763	456977.7	3767799	2.178E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.52E-09	2.01E-10	0.00E+00	6.72E-09	2.47E-09	6.48E-11	0.00E+00	2.54E-09
3764	456981.3	3767790	2.202E-08	1.13E-09	0.00E+00	2.31E-08	2.20E-08	1.13E-09	0.00E+00	2.31E-08	6.59E-09	2.03E-10	0.00E+00	6.80E-09	2.50E-09	6.55E-11	0.00E+00	2.56E-09
3765	456984.8	3767781	2.224E-08	1.14E-09	0.00E+00	2.34E-08	2.22E-08	1.14E-09	0.00E+00	2.34E-08	6.66E-09	2.05E-10	0.00E+00	6.87E-09	2.52E-09	6.62E-11	0.00E+00	2.59E-09
3766	456988.3	3767773	2.244E-08	1.15E-09	0.00E+00	2.36E-08	2.24E-08	1.15E-09	0.00E+00	2.36E-08	6.72E-09	2.07E-10	0.00E+00	6.93E-09	2.55E-09	6.68E-11	0.00E+00	2.61E-09
3767	456991.9	3767764	2.263E-08	1.16E-09	0.00E+00	2.38E-08	2.26E-08	1.16E-09	0.00E+00	2.38E-08	6.78E-09	2.09E-10	0.00E+00	6.99E-09	2.57E-09	6.73E-11	0.00E+00	2.63E-09
3768	456995.4	3767755	2.279E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.83E-09	2.10E-10	0.00E+00	7.04E-09	2.59E-09	6.78E-11	0.00E+00	2.65E-09
3769	456999	3767747	2.294E-08	1.18E-09	0.00E+00	2.41E-08	2.29E-08	1.18E-09	0.00E+00	2.41E-08	6.87E-09	2.11E-10	0.00E+00	7.08E-09	2.60E-09	6.83E-11	0.00E+00	2.67E-09
3770	457002.5	3767738	2.308E-08	1.18E-09	0.00E+00	2.43E-08	2.31E-08	1.18E-09	0.00E+00	2.43E-08	6.91E-09	2.13E-10	0.00E+00	7.12E-09	2.62E-09	6.87E-11	0.00E+00	2.69E-09
3771	457006	3767729	2.319E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.95E-09	2.14E-10	0.00E+00	7.16E-09	2.63E-09	6.90E-11	0.00E+00	2.70E-09
3772	457018.2	3767717	2.381E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.19E-10	0.00E+00	7.35E-09	2.70E-09	7.08E-11	0.00E+00	2.77E-09
3773	457026.9	3767713	2.432E-08	1.25E-09	0.00E+00	2.56E-08	2.43E-08	1.25E-09	0.00E+00	2.56E-08	7.28E-09	2.24E-10	0.00E+00	7.51E-09	2.76E-09	7.24E-11	0.00E+00	2.83E-09
3774	457035.6	3767710	2.483E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.44E-09	2.29E-10	0.00E+00	7.67E-09	2.82E-09	7.39E-11	0.00E+00	2.89E-09
3775	457044.2	3767706	2.534E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.59E-09	2.34E-10	0.00E+00	7.82E-09	2.87E-09	7.54E-11	0.00E+00	2.95E-09
3776	457052.9	3767702	2.584E-08	1.32E-09	0.00E+00	2.72E-08	2.58E-08	1.32E-09	0.00E+00	2.72E-08	7.74E-09	2.38E-10	0.00E+00	7.98E-09	2.93E-09	7.69E-11	0.00E+00	3.01E-09
3777	457061.6	3767699	2.633E-08	1.35E-09	0.00E+00	2.77E-08	2.63E-08	1.35E-09	0.00E+00	2.77E-08	7.89E-09	2.43E-10	0.00E+00	8.13E-09	2.99E-09	7.83E-11	0.00E+00	3.07E-09
3778	457070.2	3767695	2.681E-08	1.37E-09	0.00E+00	2.82E-08	2.68E-08	1.37E-09	0.00E+00	2.82E-08	8.03E-09	2.47E-10	0.00E+00	8.28E-09	3.04E-09	7.98E-11	0.00E+00	3.12E-09
3779	457078.9	3767692	2.728E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.17E-09	2.51E-10	0.00E+00	8.42E-09	3.09E-09	8.12E-11	0.00E+00	3.18E-09
3780	457087.5	3767688	2.773E-08	1.42E-09	0.00E+00	2.91E-08	2.77E-08	1.42E-09	0.00E+00	2.91E-08	8.30E-09	2.56E-10	0.00E+00	8.56E-09	3.15E-09	8.25E-11	0.00E+00	3.23E-09
3781	457096.2	3767684	2.816E-08	1.44E-09	0.00E+00	2.96E-08	2.82E-08	1.44E-09	0.00E+00	2.96E-08	8.43E-09	2.60E-10	0.00E+00	8.69E-09	3.20E-09	8.38E-11	0.00E+00	3.28E-09
3782	457104.9	3767681	2.858E-08	1.47E-09	0.00E+00	3.00E-08	2.86E-08	1.47E-09	0.00E+00	3.00E-08	8.56E-09	2.63E-10	0.00E+00	8.82E-09	3.24E-09	8.51E-11	0.00E+00	3.33E-09
3783	457113.5	3767677	2.898E-08	1.49E-09	0.00E+00	3.05E-08	2.90E-08	1.49E-09	0.00E+00	3.05E-08	8.68E-09	2.67E-10	0.00E+00	8.95E-09	3.29E-09	8.62E-11	0.00E+00	3.37E-09
3784	457122.2	3767673	2.937E-08	1.51E-09	0.00E+00	3.09E-08	2.94E-08	1.51E-09	0.00E+00	3.09E-08	8.80E-09	2.71E-10	0.00E+00	9.07E-09	3.33E-09	8.74E-11	0.00E+00	3.42E-09
3785	457130.9	3767670	2.974E-08	1.52E-09	0.00E+00	3.13E-08	2.97E-08	1.52E-09	0.00E+00	3.13E-08	8.91E-09	2.74E-10	0.00E+00	9.18E-09	3.37E-09	8.85E-11	0.00E+00	3.46E-09
3786	457139.5	3767666	3.009E-08	1.54E-09	0.00E+00	3.16E-08	3.01E-08	1.54E-09	0.00E+00	3.16E-08	9.01E-09	2.77E-10	0.00E+00	9.29E-09	3.41E-09	8.95E-11	0.00E+00	3.50E-09
3787	457148.2	3767663	3.041E-08	1.56E-09	0.00E+00	3.20E-08	3.04E-08	1.56E-09	0.00E+00	3.20E-08	9.11E-09	2.80E-10	0.00E+00	9.39E-09	3.45E-09	9.05E-11	0.00E+00	3.54E-09
3788	457156.8	3767659	3.069E-08	1.57E-09	0.00E+00	3.23E-08	3.07E-08	1.57E-09	0.00E+00	3.23E-08	9.19E-09	2.83E-10	0.00E+00	9.47E-09	3.48E-09	9.13E-11	0.00E+00	3.57E-09
3789	457165.5	3767655	3.094E-08	1.59E-09	0.00E+00	3.25E-08	3.09E-08	1.59E-09	0.00E+00	3.25E-08	9.27E-09	2.85E-10	0.00E+00	9.55E-09	3.51E-09	9.21E-11	0.00E+00	3.60E-09
3790	457174.2	3767652	3.116E-08	1.60E-09	0.00E+00	3.28E-08	3.12E-08	1.60E-09	0.00E+00	3.28E-08	9.33E-09	2.87E-10	0.00E+00	9.62E-09	3.54E-09	9.27E-11	0.00E+00	3.63E-09
3791	457182.8	3767648	3.135E-08	1.61E-09	0.00E+00	3.30E-08	3.14E-08	1.61E-09	0.00E+00	3.30E-08	9.39E-09	2.89E-10	0.00E+00	9.68E-09	3.56E-09	9.33E-11	0.00E+00	3.65E-09
3792	457191.5	3767644	3.152E-08	1.62E-09	0.00E+00	3.31E-08	3.15E-08	1.62E-09	0.00E+00	3.31E-08	9.44E-09	2.91E-10	0.00E+00	9.73E-09	3.58E-09	9.38E-11	0.00E+00	3.67E-09
3793	457200.2	3767641	3.165E-08	1.62E-09	0.00E+00	3.33E-08	3.16E-08	1.62E-09	0.00E+00	3.33E-08	9.48E-09	2.92E-10	0.00E+00	9.77E-09	3.59E-09	9.42E-11	0.00E+00	3.68E-09
3794	457208.8	3767637	3.174E-08	1.63E-09	0.00E+00	3.34E-08	3.17E-08	1.63E-09	0.00E+00	3.34E-08	9.51E-09	2.93E-10	0.00E+00	9.80E-09	3.60E-09	9.45E-11	0.00E+00	3.70E-09
3795	457217.5	3767634	3.18E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.53E-09	2.93E-10	0.00E+00	9.82E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
3796	457226.2	3767630	3.184E-08	1.63E-09	0.00E+00	3.35E-08	3.18E-08	1.63E-09	0.00E+00	3.35E-08	9.54E-09	2.93E-10	0.00E+00	9.83E-09	3.61E-09	9.47E-11	0.00E+00	3.71E-09
3797	457234.8	3767626	3.184E-08	1.63E-09	0.00E+00	3.35E-08	3.18E-08	1.63E-09	0.00E+00	3.35E-08	9.54E-09	2.94E-10	0.00E+00	9.83E-09	3.61E-09	9.47E-11	0.00E+00	3.71E-09
3798	457243.5	3767623	3.181E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.53E-09	2.93E-10	0.00E+00	9.82E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
3799	457252.1	3767619	3.173E-08	1.63E-09	0.00E+00	3.34E-08	3.17E-08	1.63E-09	0.00E+00	3.34E-08	9.50E-09	2.92E-10	0.00E+00	9.80E-09	3.60E-09	9.44E-11	0.00E+00	3.69E-09
3800	457260.8	3767616	3.162E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.47E-09	2.91E-10	0.00E+00	9.76E-09	3.59E-09	9.41E-11	0.00E+00	3.68E-09
3801	456882.1	3768034	1.232E-08	6.32E-10	0.00E+00	1.30E-08	1.23E-08	6.32E-10	0.00E+00	1.30E-08	3.69E-09	1.14E-10	0.00E+00	3.80E-09	1.40E-09	3.67E-11	0.00E+00	1.43E-09
3802	456882.2	3768043	1.21E-08	6.20E-10	0.00E+00	1.27E-08	1.21E-08	6.20E-10	0.00E+00	1.27E-08	3.62E-09	1.12E-10	0.00E+00	3.74E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
3803	456882.3	3768053	1.187E-08	6.09E-10	0.00E+00	1.25E-08	1.19E-08	6.09E-10	0.00E+00	1.25E-08	3.56E-09	1.09E-10	0.00E+00	3.66E-09	1.35E-09	3.53E-11	0.00E+00	1.38E-09
3804	456882.4	3768062	1.164E-08	5.97E-10	0.00E+00	1.22E-08	1.16E-08	5.97E-10	0.00E+00	1.22E-08	3.49E-09	1.07E-10	0.00E+00	3.59E-09	1.32E-09	3.46E-11	0.00E+00	1.36E-09
3805	456882.4	3768072	1.141E-08	5.85E-10	0.00E+00	1.20E-08	1.14E-08	5.85E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.52E-09	1.29E-09	3.40E-11	0.00E+00	1.33E-09

3806	456882.5	3768082	1.119E-08	5.73E-10	0.00E+00	1.18E-08	1.12E-08	5.73E-10	0.00E+00	1.18E-08	3.35E-09	1.03E-10	0.00E+00	3.45E-09	1.27E-09	3.33E-11	0.00E+00	1.30E-09
3807	456882.6	3768091	1.096E-08	5.62E-10	0.00E+00	1.15E-08	1.10E-08	5.62E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.28E-09
3808	456882.7	3768101	1.073E-08	5.50E-10	0.00E+00	1.13E-08	1.07E-08	5.50E-10	0.00E+00	1.13E-08	3.21E-09	9.89E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
3809	456882.7	3768111	1.05E-08	5.38E-10	0.00E+00	1.10E-08	1.05E-08	5.38E-10	0.00E+00	1.10E-08	3.15E-09	9.68E-11	0.00E+00	3.24E-09	1.19E-09	3.13E-11	0.00E+00	1.22E-09
3810	456882.8	3768120	1.028E-08	5.27E-10	0.00E+00	1.08E-08	1.03E-08	5.27E-10	0.00E+00	1.08E-08	3.08E-09	9.47E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
3811	456882.9	3768130	1.005E-08	5.15E-10	0.00E+00	1.06E-08	1.00E-08	5.15E-10	0.00E+00	1.06E-08	3.01E-09	9.26E-11	0.00E+00	3.10E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
3812	456883	3768139	9.822E-09	5.04E-10	0.00E+00	1.03E-08	9.82E-09	5.04E-10	0.00E+00	1.03E-08	2.94E-09	9.05E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
3813	456883	3768149	9.6E-09	4.92E-10	0.00E+00	1.01E-08	9.60E-09	4.92E-10	0.00E+00	1.01E-08	2.88E-09	8.85E-11	0.00E+00	2.96E-09	1.09E-09	2.86E-11	0.00E+00	1.12E-09
3814	456883.1	3768159	9.38E-09	4.81E-10	0.00E+00	9.86E-09	9.38E-09	4.81E-10	0.00E+00	9.86E-09	2.81E-09	8.65E-11	0.00E+00	2.90E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
3815	456883.2	3768168	9.164E-09	4.70E-10	0.00E+00	9.63E-09	9.16E-09	4.70E-10	0.00E+00	9.63E-09	2.74E-09	8.45E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
3816	456883.3	3768178	8.951E-09	4.59E-10	0.00E+00	9.41E-09	8.95E-09	4.59E-10	0.00E+00	9.41E-09	2.68E-09	8.25E-11	0.00E+00	2.76E-09	1.02E-09	2.66E-11	0.00E+00	1.04E-09
3817	456883.3	3768187	8.741E-09	4.48E-10	0.00E+00	9.19E-09	8.74E-09	4.48E-10	0.00E+00	9.19E-09	2.62E-09	8.06E-11	0.00E+00	2.70E-09	9.92E-10	2.60E-11	0.00E+00	1.02E-09
3818	456883.4	3768197	8.537E-09	4.38E-10	0.00E+00	8.97E-09	8.54E-09	4.38E-10	0.00E+00	8.97E-09	2.56E-09	7.87E-11	0.00E+00	2.64E-09	9.69E-10	2.54E-11	0.00E+00	9.94E-10
3819	456883.5	3768207	8.338E-09	4.27E-10	0.00E+00	8.77E-09	8.34E-09	4.27E-10	0.00E+00	8.77E-09	2.50E-09	7.69E-11	0.00E+00	2.57E-09	9.46E-10	2.48E-11	0.00E+00	9.71E-10
3820	456883.6	3768216	8.143E-09	4.17E-10	0.00E+00	8.56E-09	8.14E-09	4.17E-10	0.00E+00	8.56E-09	2.44E-09	7.51E-11	0.00E+00	2.51E-09	9.24E-10	2.42E-11	0.00E+00	9.48E-10
3821	456883.6	3768226	7.952E-09	4.08E-10	0.00E+00	8.36E-09	7.95E-09	4.08E-10	0.00E+00	8.36E-09	2.38E-09	7.33E-11	0.00E+00	2.46E-09	9.02E-10	2.37E-11	0.00E+00	9.26E-10
3822	456883.7	3768236	7.764E-09	3.98E-10	0.00E+00	8.16E-09	7.76E-09	3.98E-10	0.00E+00	8.16E-09	2.33E-09	7.16E-11	0.00E+00	2.40E-09	8.81E-10	2.31E-11	0.00E+00	9.04E-10
3823	456845.7	3768025	1.112E-08	5.70E-10	0.00E+00	1.17E-08	1.11E-08	5.70E-10	0.00E+00	1.17E-08	3.33E-09	1.03E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.29E-09
3824	456849.3	3768016	1.142E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
3825	456852.8	3768008	1.173E-08	6.01E-10	0.00E+00	1.23E-08	1.17E-08	6.01E-10	0.00E+00	1.23E-08	3.51E-09	1.08E-10	0.00E+00	3.62E-09	1.33E-09	3.49E-11	0.00E+00	1.37E-09
3826	456856.4	3767999	1.204E-08	6.17E-10	0.00E+00	1.27E-08	1.20E-08	6.17E-10	0.00E+00	1.27E-08	3.60E-09	1.11E-10	0.00E+00	3.72E-09	1.37E-09	3.58E-11	0.00E+00	1.40E-09
3827	456860	3767990	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.23E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
3828	456863.5	3767981	1.266E-08	6.49E-10	0.00E+00	1.33E-08	1.27E-08	6.49E-10	0.00E+00	1.33E-08	3.79E-09	1.17E-10	0.00E+00	3.91E-09	1.44E-09	3.77E-11	0.00E+00	1.47E-09
3829	456867.1	3767973	1.299E-08	6.66E-10	0.00E+00	1.37E-08	1.30E-08	6.66E-10	0.00E+00	1.37E-08	3.89E-09	1.20E-10	0.00E+00	4.01E-09	1.47E-09	3.86E-11	0.00E+00	1.51E-09
3830	456870.7	3767964	1.332E-08	6.83E-10	0.00E+00	1.40E-08	1.33E-08	6.83E-10	0.00E+00	1.40E-08	3.99E-09	1.23E-10	0.00E+00	4.11E-09	1.51E-09	3.96E-11	0.00E+00	1.55E-09
3831	456874.2	3767955	1.364E-08	6.99E-10	0.00E+00	1.43E-08	1.36E-08	6.99E-10	0.00E+00	1.43E-08	4.09E-09	1.26E-10	0.00E+00	4.21E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09
3832	456877.8	3767946	1.398E-08	7.16E-10	0.00E+00	1.47E-08	1.40E-08	7.16E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.31E-09	1.59E-09	4.16E-11	0.00E+00	1.63E-09
3833	456881.4	3767938	1.431E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
3834	456884.9	3767929	1.464E-08	7.51E-10	0.00E+00	1.54E-08	1.46E-08	7.51E-10	0.00E+00	1.54E-08	4.38E-09	1.35E-10	0.00E+00	4.52E-09	1.66E-09	4.36E-11	0.00E+00	1.70E-09
3835	456888.5	3767920	1.497E-08	7.68E-10	0.00E+00	1.57E-08	1.50E-08	7.68E-10	0.00E+00	1.57E-08	4.48E-09	1.38E-10	0.00E+00	4.62E-09	1.70E-09	4.46E-11	0.00E+00	1.74E-09
3836	456892.1	3767911	1.53E-08	7.85E-10	0.00E+00	1.61E-08	1.53E-08	7.85E-10	0.00E+00	1.61E-08	4.58E-09	1.41E-10	0.00E+00	4.72E-09	1.74E-09	4.55E-11	0.00E+00	1.78E-09
3837	456924.1	3767832	1.808E-08	9.27E-10	0.00E+00	1.90E-08	1.81E-08	9.27E-10	0.00E+00	1.90E-08	5.41E-09	1.67E-10	0.00E+00	5.58E-09	2.05E-09	5.38E-11	0.00E+00	2.10E-09
3838	456927.7	3767824	1.836E-08	9.41E-10	0.00E+00	1.93E-08	1.84E-08	9.41E-10	0.00E+00	1.93E-08	5.50E-09	1.69E-10	0.00E+00	5.67E-09	2.08E-09	5.46E-11	0.00E+00	2.14E-09
3839	456931.3	3767815	1.862E-08	9.55E-10	0.00E+00	1.96E-08	1.86E-08	9.55E-10	0.00E+00	1.96E-08	5.58E-09	1.72E-10	0.00E+00	5.75E-09	2.11E-09	5.54E-11	0.00E+00	2.17E-09
3840	456934.8	3767806	1.888E-08	9.68E-10	0.00E+00	1.99E-08	1.89E-08	9.68E-10	0.00E+00	1.99E-08	5.66E-09	1.74E-10	0.00E+00	5.83E-09	2.14E-09	5.62E-11	0.00E+00	2.20E-09
3841	456938.4	3767797	1.913E-08	9.81E-10	0.00E+00	2.01E-08	1.91E-08	9.81E-10	0.00E+00	2.01E-08	5.73E-09	1.76E-10	0.00E+00	5.91E-09	2.17E-09	5.69E-11	0.00E+00	2.23E-09
3842	456942	3767789	1.937E-08	9.93E-10	0.00E+00	2.04E-08	1.94E-08	9.93E-10	0.00E+00	2.04E-08	5.80E-09	1.79E-10	0.00E+00	5.98E-09	2.20E-09	5.76E-11	0.00E+00	2.25E-09
3843	456945.5	3767780	1.959E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.87E-09	1.81E-10	0.00E+00	6.05E-09	2.22E-09	5.83E-11	0.00E+00	2.28E-09
3844	456949.1	3767771	1.98E-08	1.02E-09	0.00E+00	2.08E-08	1.98E-08	1.02E-09	0.00E+00	2.08E-08	5.93E-09	1.83E-10	0.00E+00	6.11E-09	2.25E-09	5.89E-11	0.00E+00	2.31E-09
3845	456952.6	3767762	2E-08	1.03E-09	0.00E+00	2.10E-08	2.00E-08	1.03E-09	0.00E+00	2.10E-08	5.99E-09	1.84E-10	0.00E+00	6.17E-09	2.27E-09	5.95E-11	0.00E+00	2.33E-09
3846	456956.2	3767754	2.019E-08	1.03E-09	0.00E+00	2.12E-08	2.02E-08	1.03E-09	0.00E+00	2.12E-08	6.05E-09	1.86E-10	0.00E+00	6.23E-09	2.29E-09	6.01E-11	0.00E+00	2.35E-09
3847	456959.8	3767745	2.036E-08	1.04E-09	0.00E+00	2.14E-08	2.04E-08	1.04E-09	0.00E+00	2.14E-08	6.10E-09	1.88E-10	0.00E+00	6.28E-09	2.31E-09	6.06E-11	0.00E+00	2.37E-09
3848	456963.3	3767736	2.05E-08	1.05E-09	0.00E+00	2.16E-08	2.05E-08	1.05E-09	0.00E+00	2.16E-08	6.14E-09	1.89E-10	0.00E+00	6.33E-09	2.33E-09	6.10E-11	0.00E+00	2.39E-09
3849	456966.9	3767727	2.064E-08	1.06E-09	0.00E+00	2.17E-08	2.06E-08	1.06E-09	0.00E+00	2.17E-08	6.18E-09	1.90E-10	0.00E+00	6.37E-09	2.34E-09	6.14E-11	0.00E+00	2.40E-09
3850	456970.5	3767719	2.075E-08	1.06E-09	0.00E+00	2.18E-08	2.08E-08	1.06E-09	0.00E+00	2.18E-08	6.22E-09	1.91E-10	0.00E+00	6.41E-09	2.35E-09	6.18E-11	0.00E+00	2.42E-09
3851	456974	3767710	2.087E-08	1.07E-09	0.00E+00	2.19E-08	2.09E-08	1.07E-09	0.00E+00	2.19E-08	6.25E-09	1.92E-10	0.00E+00	6.44E-09	2.37E-09	6.21E-11	0.00E+00	2.43E-09
3852	456977.6	3767701	2.097E-08	1.08E-09	0.00E+00	2.20E-08	2.10E-08	1.08E-09	0.00E+00	2.20E-08	6.28E-09	1.93E-10	0.00E+00	6.47E-09	2.38E-09	6.24E-11	0.00E+00	2.44E-09
3853	456989.9	3767689	2.15E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.64E-09	2.44E-09	6.40E-11	0.00E+00	2.50E-09
3854	456998.6	3767685	2.194E-08	1.12E-09	0.00E+00	2.31E-08	2.19E-08	1.12E-09	0.00E+00	2.31E-08	6.57E-09	2.02E-10	0.00E+00	6.77E-09	2.49E-09	6.53E-11	0.00E+00	2.55E-09
3855	457007.3	3767681	2.239E-08	1.15E-09	0.00E+00	2.35E-08	2.24E-08	1.15E-09	0.00E+00	2.35E-08	6.71E-09	2.06E-10	0.00E+00	6.91E-09	2.54E-09	6.66E-11	0.00E+00	2.61E-09
3856	457016.1	3767678	2.284E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.84E-09	2.11E-10	0.00E+00	7.05E-09	2.59E-09	6.80E-11	0.00E+00	2.66E-09
3857	457024.8	3767674	2.327E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.15E-10	0.00E+00	7.19E-09	2.64E-09	6.93E-11	0.00E+00	2.71E-09
3858	457033.5	3767670	2.37E-08	1.22E-09	0.00E+00	2.49E-08	2.37E-08	1.22E-09	0.00E+00	2.49E-08	7.10E-09	2.18E-10	0.00E+00	7.32E-09	2.69E-09	7.05E-11	0.00E+00	2.76E-09
3859	457042.2	3767667	2.412E-08	1.24E-09	0.00E+00	2.54E-08	2.41E-08	1.24E-09	0.00E+00	2.54E-08	7.23E-09	2.22E-10	0.00E+00	7.45E-09	2.74E-09	7.18E-11	0.00E+00	2.81E-09
3860	457051	3767663	2.454E-08	1.26E-09	0.00E+00	2.58E-08	2.45E-08	1.26E-09	0.00E+00	2.58E-08	7.35E-09	2.26E-10	0.00E+00	7.58E-09	2.78E-09	7.30E-11	0.00E+00	2.86E-09
3861	457059.7	3767660	2.495E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.47E-09	2.30E-10	0.00E+00	7.70E-09	2.83E-09	7.42E-11	0.00E+00	2.90E-09
3862	457068.4	3767656	2.534E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.59E-09	2.34E-10	0.00E+00	7.82E-09	2.87E-09	7.54E-11	0.00E+00	2.95E-09
3863	457077.1	3767652	2.571E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.70E-09	2.37E-10	0.00E+00	7.94E-09	2.92E-09	7.65E-11	0.00E+00	2.99E-09
3864	457085.8	3767649	2.607E-08	1.34E-09	0.00E+00	2.74E-08	2.61E-08	1.34E-09	0.00E+00	2.74E-08	7.81E-09	2.40E-10	0.00E+00	8.05E-09	2.96E-09	7.76E-11	0.00E+00	3.03E-09
3865	457094.6	3767645	2.641E-08	1.35E-09	0.00E+00	2.78E-08	2.64E-08	1.35E-09	0.00E+00	2.78E-08	7.91E-09	2.43E-10	0.00E+00	8.15E-09	3.00E-09	7.86E-11	0.00E+00	3.07E-09
3866	457103.3	3767641	2.673E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.01E-09	2.46E-10	0.00E+00	8.25E-09	3.03E-09	7.96E-11	0.00E+00	3.11E-09
3867	457112	3767638	2.704E-08	1.39E-09	0.00E+00	2.84E-08	2.70E-08	1.39E-09	0.00E+00	2.84E-08	8.10E-09	2.49E-10	0.00E+00	8.35E-09	3.07E-09	8.05E-11	0.00E+00	3.15E-09
3868	457120.7	3767634	2.733E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.18E-09	2.52E-10	0.00E+00	8.44E-09	3.10E-09	8.13E-11	0.00E+00	3.18E-09
3869	457129.5	3767630	2.76E-08	1.42E-09	0.00E+00	2.90E-08	2.76E-08	1.42E-09	0.00E+00	2.90E-08	8.27E-09	2.54E-10	0.00E+00	8.52E-09	3.13E-09	8.21E-11	0.00E+00	3.21E-09
3870	457138.2	3767627	2.786E-08	1.43E-09	0.00E+00	2.93E-08	2.79E-08	1.43E-09	0.00E+00	2.93E-08	8.34E-09	2.57E-10	0.00E+00	8.60E-09	3.16E-09	8.29E-11	0.00E+00	3.24E-09
3871	457146.9	3767623	2.809E-08	1.44E-09	0.00E+00	2.95E-08	2.81E-08	1.44E-09	0.00E+00	2.95E-08	8.41E-09	2.59E-10	0.00E+00	8.67E-09	3.19E-09	8.36E-11	0.00E+00	3.27E-09
3872	457155.6	3767619	2.829E-08	1.45E-09	0.00E+00	2.97E-08	2.83E-08	1.45E-09	0.00E+00	2.97E-08	8.47E-09	2.61E-10	0.00E+00	8.73E-09	3.21E-09	8.42E-11	0.00E+00	3.29E-09
3873	457164.4	3767616	2.846E-08	1.46E-09	0.00E+00	2.99E-08	2.85E-08	1.46E-09	0.00E+00	2.99E-08	8.52E-09	2.62E-10	0.00E+00	8.79E-09	3.23E-09	8.47E-11	0.00E+00	3.31E-09
3874	456842.1	3768034	1.082E-08	5.55E-10	0.00E+00	1.14E-08	1.08E-08	5.55E-10	0.00E+00	1.14E-08	3.24E-09	9.98E-11	0.00E+00	3.34E-09	1.23E-09	3.22E-11	0.00E+00	1.26E-09
3875	456842.2	3768043	1.064E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.19E-09	9.80E-11	0.00E+00	3.28E-09	1.21E-09	3.16E-11	0.00E+00	1.24E-09
3876	456842.3	3768053	1.045E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.13E-09	9.63E-11	0.00E+00	3.22E-09	1.19E-09	3.11E-11	0.00E+00	1.22E-09
3877	456842.4	3768063	1.025E-08	5.26E-10	0.00E+00	1.08E-08	1.03E-08	5.26E-10	0.00E+00	1.08E-08	3.07E-09	9.45E-11	0.00E+00	3.17E-09	1.16E-09	3.05E-11	0.00E+00	1.19E-09
3878	456842.4	3768072	1.006E-08	5.16E-10	0.00E+00	1.06E-08	1.01E-08	5.16E-10	0.00E+00	1.06E-08	3.01E-09	9.27E-11	0.00E+00	3.11E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
3879	456842.5	3768082	9.868E-09	5.06E-10	0.00E+00	1.04E-08	9.87E-09	5.06E-10	0.00E+00	1.04E-08	2.96E-09	9.10E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
3880	456842.6	3768092	9.675E-09	4.96E-10	0.00E+00	1.02E-08	9.68E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.92E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
3881	456842.7	3768101	9.483E-09	4.86E-10	0.00E+00	9.97E-09	9.48E-09	4.86E-10	0.00E+00	9.97E-09	2.84E-09	8.74E-11	0.00E+00	2.93E-09	1.08E-09	2.82E-11	0.00E+00	1.10E-09
3882	456842.7	3768111	9.293E-09	4.76E-10	0.00E+00	9.77E-09	9.29E-09	4.76E-10	0.00E+00	9.77E-09	2.78E-09	8.57E-11	0.00E+00	2.87E-09	1.05E-09	2.77E-11	0.00E+00	1.08E-09
3883	456842.8	3768120	9.105E-09	4.67E-10	0.00E+00	9.57E-09	9.11E-09	4.67E-10	0.00E+00	9.57E-09	2.73E-09	8.39E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
3884	456842.9	3768130	8.919E-09	4.57E-10	0.00E+00	9.38E-09	8.92E-09	4.57E-10	0.00E+00	9.38E-09	2.67E-09	8.22E-11	0.00E+00	2.75E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
3885	456843	3768140	8.734E-09	4.48E-10	0.00E+00	9.18E-09	8.73E-09	4.48E-10	0.00E+00	9.18E-09	2.62E-09	8.05E-11	0.00E+00	2.70E-09	9.91E-10	2.60E-11	0.00E+00	1.02E-09
3886	456843	3768149	8.55E-09	4.38E-10	0.00E+00	8.99E-09	8.55E-09	4.38E-10	0.00E+00	8.99E-09	2.56E-09	7.88E-11	0.00E+00	2.64E-09	9.70E-10	2.54E-11	0.00E+00	9.95E-10
3887	456843.1	3768159	8.367E-09	4.29E-10	0.00E+00	8.80E-09	8.37E-09	4.29E-10	0.00E+00	8.80E-09	2.51E-09	7.71E-11	0.00E+00	2.58E-09	9.49E-10	2.49E-11	0.00E+00	9.74E-10
3888	456843.2	3768169	8.187E-09	4.20E-10	0.00E+00	8.61E-09	8.19E-09	4.20E-10	0.00E+00	8.61E-09	2.45E-09	7.55E-11	0.00E+00	2.53E-09	9.29E-10	2.44E-11	0.00E+00	9.53E-10
3889	456843.3	3768178	8.01E-09	4.11E-10	0.00E+00	8.42E-09	8.01E-09	4.11E-10	0.00E+00	8.42E-09	2.40E-09	7.38E-11	0.00E+00	2.47E-09	9.09E-10	2.38E-11	0.00E+00	9.33E-10
3890	456843.3	3768188	7.835E-09	4.02E-10	0.00E+00	8.24E-09	7.83E-09	4.02E-10	0.00E+00	8.24E-09	2.35E-09	7.22E-11	0.00E+00	2.42E-09	8.89E-10	2.33E-11	0.00E+00	9.12E-10
3891	456843.4	3768197	7.663E-09	3.93E-10	0.00E+00	8.06E-09	7.66E-09	3.93E-10	0.00E+00	8.06E-09	2.30E-09	7.06E-11	0.00E+00	2.37E-09	8.69E-10	2.28E-11	0.00E+00	8.92E-10
3892	456843.5	3768207	7.496E-09	3.84E-10	0.00E+00	7.88E-09	7.50E-09	3.84E-10	0.00E+00	7.88E-09	2.25E-09	6.91E-11	0.00E+00	2.31E-09	8.50E-10	2.23E-11	0.00E+00	8.73E-10
3893	456843.6	3768217	7.332E-09	3.76E-10	0.00E+00	7.71E-09	7.33E-09	3.76E-10	0.00E+00	7.71E-09	2.20E-09	6.76E-11	0.00E+00	2.26E-09	8.32E-10	2.18E-11	0.00E+00	8.54E-10
3894	456843.6	3768226	7.172E-09	3.68E-10	0.00E+00	7.54E-09	7.17E-09	3.68E-10	0.00E+00	7.54E-09	2.15E-09	6.61E-11	0.00E+00	2.21E-09	8.14E-10	2.13E-11	0.00E+00	8.35E-10
3895	456843.7	3768236	7.014E-09	3.60E-10	0.00E+00	7.37E-09	7.01E-09	3.60E-10	0.00E+00	7.37E-09	2.10E-09	6.47E-11	0.00E+00	2.17E-09	7.96E-10	2.09E-11	0.00E+00	8.17E-10
3896	456805.7	3768025	9.84E-09	5.04E-10	0.00E+00	1.03E-08	9.84E-09	5.04E-10	0.00E+00	1.03E-08	2.95E-09	9.07E-11	0.00E+00	3.04E-09	1.12E-09	2.93E-11	0.00E+00	1.15E-09
3897	456809.3	3768017	1.009E-08	5.17E-10	0.00E+00	1.06E-08	1.01E-08	5.17E-10	0.00E+00	1.06E-08	3.02E-09	9.30E-11	0.00E+00	3.12E-09	1.15E-09	3.00E-11	0.00E+00	1.18E-09
3898	456812.9	3768008	1.035E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.54E-11	0.00E+00	3.20E-09	1.17E-09	3.08E-11	0.00E+00	1.21E-09
3899	456816.5	3767999	1.062E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.79E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
3900	456820.1	3767990	1.089E-08	5.58E-10	0.00E+00	1.14E-08	1.09E-08	5.58E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.24E-09	3.24E-11	0.00E+00	1.27E-09
3901	456823.7	3767981	1.116E-08	5.72E-10	0.00E+00	1.17E-08	1.12E-08	5.72E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.44E-09	1.27E-09	3.32E-11	0.00E+00	1.30E-09
3902	456827.2	3767973	1.143E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
3903	456830.8	3767964	1.171E-08	6.00E-10	0.00E+00	1.23E-08	1.17E-08	6.00E-10	0.00E+00	1.23E-08	3.51E-09	1.08E-10	0.00E+00	3.62E-09	1.33E-09	3.49E-11	0.00E+00	1.36E-09
3904	456834.4	3767955	1.199E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.59E-09	1.11E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
3905	456838	3767946	1.228E-08	6.29E-10	0.00E+00	1.29E-08	1.23E-08	6.29E-10	0.00E+00	1.29E-08	3.68E-09	1.13E-10	0.00E+00	3.79E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
3906	456841.6	3767937	1.256E-08	6.44E-10	0.00E+00	1.32E-08	1.26E-08	6.44E-10	0.00E+00	1.32E-08	3.76E-09	1.16E-10	0.00E+00	3.88E-09	1.42E-09	3.74E-11	0.00E+00	1.46E-09
3907	456845.2	3767928	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.28E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
3908	456848.8	3767920	1.313E-08	6.73E-10	0.00E+00	1.38E-08	1.31E-08	6.73E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.05E-09	1.49E-09	3.91E-11	0.00E+00	1.53E-09
3909	456852.3	3767911	1.341E-08	6.88E-10	0.00E+00	1.41E-08	1.34E-08	6.88E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
3910	456855.9	3767902	1.37E-08	7.02E-10	0.00E+00	1.44E-08	1.37E-08	7.02E-10	0.00E+00	1.44E-08	4.10E-09	1.26E-10	0.00E+00	4.23E-09	1.55E-09	4.08E-11	0.00E+00	1.59E-09
3911	456859.5	3767893	1.398E-08	7.17E-10	0.00E+00	1.47E-08	1.40E-08	7.17E-10	0.00E+00	1.47E-08	4.19E-09	1.29E-10	0.00E+00	4.32E-09	1.59E-09	4.16E-11	0.00E+00	1.63E-09
3912	456863.1	3767884	1.426E-08	7.31E-10	0.00E+00	1.50E-08	1.43E-08	7.31E-10	0.00E+00	1.50E-08	4.27E-09	1.31E-10	0.00E+00	4.40E-09	1.62E-09	4.24E-11	0.00E+00	1.66E-09
3913	456866.7	3767876	1.454E-08	7.46E-10	0.00E+00	1.53E-08	1.45E-08	7.46E-10	0.00E+00	1.53E-08	4.36E-09	1.34E-10	0.00E+00	4.49E-09	1.65E-09	4.33E-11	0.00E+00	1.69E-09
3914	456870.3	3767867	1.482E-08	7.60E-10	0.00E+00	1.56E-08	1.48E-08	7.60E-10	0.00E+00	1.56E-08	4.44E-09	1.37E-10	0.00E+00	4.58E-09	1.68E-09	4.41E-11	0.00E+00	1.73E-09
3915	456873.9	3767858	1.509E-08	7.74E-10	0.00E+00	1.59E-08	1.51E-08	7.74E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
3916	456877.4	3767849	1.537E-08	7.88E-10	0.00E+00	1.62E-08	1.54E-08	7.88E-10	0.00E+00	1.62E-08	4.60E-09	1.42E-10	0.00E+00	4.74E-09	1.74E-09	4.57E-11	0.00E+00	1.79E-09
3917	456881	3767840	1.563E-08	8.01E-10	0.00E+00	1.64E-08	1.56E-08	8.01E-10	0.00E+00	1.64E-08	4.68E-09	1.44E-10	0.00E+00	4.83E-09	1.77E-09	4.65E-11	0.00E+00	1.82E-09

3918	456884.6	3767832	1.589E-08	8.15E-10	0.00E+00	1.67E-08	1.59E-08	8.15E-10	0.00E+00	1.67E-08	4.76E-09	1.47E-10	0.00E+00	4.91E-09	1.80E-09	4.73E-11	0.00E+00	1.85E-09
3919	456888.2	3767823	1.615E-08	8.28E-10	0.00E+00	1.70E-08	1.62E-08	8.28E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
3920	456891.8	3767814	1.64E-08	8.41E-10	0.00E+00	1.72E-08	1.64E-08	8.41E-10	0.00E+00	1.72E-08	4.91E-09	1.51E-10	0.00E+00	5.06E-09	1.86E-09	4.88E-11	0.00E+00	1.91E-09
3921	456920.5	3767743	1.808E-08	9.27E-10	0.00E+00	1.90E-08	1.81E-08	9.27E-10	0.00E+00	1.90E-08	5.42E-09	1.67E-10	0.00E+00	5.58E-09	2.05E-09	5.38E-11	0.00E+00	2.11E-09
3922	456924.1	3767735	1.825E-08	9.36E-10	0.00E+00	1.92E-08	1.82E-08	9.36E-10	0.00E+00	1.92E-08	5.47E-09	1.68E-10	0.00E+00	5.63E-09	2.07E-09	5.43E-11	0.00E+00	2.12E-09
3923	456927.6	3767726	1.84E-08	9.43E-10	0.00E+00	1.93E-08	1.84E-08	9.43E-10	0.00E+00	1.93E-08	5.51E-09	1.70E-10	0.00E+00	5.68E-09	2.09E-09	5.48E-11	0.00E+00	2.14E-09
3924	456931.2	3767717	1.854E-08	9.51E-10	0.00E+00	1.95E-08	1.85E-08	9.51E-10	0.00E+00	1.95E-08	5.55E-09	1.71E-10	0.00E+00	5.73E-09	2.10E-09	5.52E-11	0.00E+00	2.16E-09
3925	456934.8	3767708	1.868E-08	9.58E-10	0.00E+00	1.96E-08	1.87E-08	9.58E-10	0.00E+00	1.96E-08	5.59E-09	1.72E-10	0.00E+00	5.77E-09	2.12E-09	5.56E-11	0.00E+00	2.17E-09
3926	456938.4	3767699	1.88E-08	9.64E-10	0.00E+00	1.98E-08	1.88E-08	9.64E-10	0.00E+00	1.98E-08	5.63E-09	1.73E-10	0.00E+00	5.80E-09	2.13E-09	5.59E-11	0.00E+00	2.19E-09
3927	456942	3767691	1.891E-08	9.70E-10	0.00E+00	1.99E-08	1.89E-08	9.70E-10	0.00E+00	1.99E-08	5.67E-09	1.74E-10	0.00E+00	5.84E-09	2.15E-09	5.63E-11	0.00E+00	2.20E-09
3928	456945.6	3767682	1.901E-08	9.75E-10	0.00E+00	2.00E-08	1.90E-08	9.75E-10	0.00E+00	2.00E-08	5.69E-09	1.75E-10	0.00E+00	5.87E-09	2.16E-09	5.66E-11	0.00E+00	2.21E-09
3929	456949.2	3767673	1.909E-08	9.79E-10	0.00E+00	2.01E-08	1.91E-08	9.79E-10	0.00E+00	2.01E-08	5.72E-09	1.76E-10	0.00E+00	5.89E-09	2.17E-09	5.68E-11	0.00E+00	2.22E-09
3930	456961.5	3767661	1.956E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.86E-09	1.80E-10	0.00E+00	6.04E-09	2.22E-09	5.82E-11	0.00E+00	2.28E-09
3931	456970.3	3767657	1.995E-08	1.02E-09	0.00E+00	2.10E-08	2.00E-08	1.02E-09	0.00E+00	2.10E-08	5.98E-09	1.84E-10	0.00E+00	6.16E-09	2.26E-09	5.94E-11	0.00E+00	2.32E-09
3932	456979.1	3767653	2.034E-08	1.04E-09	0.00E+00	2.14E-08	2.03E-08	1.04E-09	0.00E+00	2.14E-08	6.09E-09	1.87E-10	0.00E+00	6.28E-09	2.31E-09	6.05E-11	0.00E+00	2.37E-09
3933	456987.8	3767650	2.072E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.20E-09	1.91E-10	0.00E+00	6.40E-09	2.35E-09	6.16E-11	0.00E+00	2.41E-09
3934	456996.6	3767646	2.11E-08	1.08E-09	0.00E+00	2.22E-08	2.11E-08	1.08E-09	0.00E+00	2.22E-08	6.32E-09	1.94E-10	0.00E+00	6.51E-09	2.39E-09	6.28E-11	0.00E+00	2.46E-09
3935	457005.4	3767642	2.147E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.43E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
3936	457014.2	3767639	2.184E-08	1.12E-09	0.00E+00	2.30E-08	2.18E-08	1.12E-09	0.00E+00	2.30E-08	6.54E-09	2.01E-10	0.00E+00	6.74E-09	2.48E-09	6.50E-11	0.00E+00	2.54E-09
3937	457023	3767635	2.22E-08	1.14E-09	0.00E+00	2.33E-08	2.22E-08	1.14E-09	0.00E+00	2.33E-08	6.65E-09	2.05E-10	0.00E+00	6.85E-09	2.52E-09	6.61E-11	0.00E+00	2.58E-09
3938	457031.7	3767631	2.255E-08	1.16E-09	0.00E+00	2.37E-08	2.25E-08	1.16E-09	0.00E+00	2.37E-08	6.75E-09	2.08E-10	0.00E+00	6.96E-09	2.56E-09	6.71E-11	0.00E+00	2.63E-09
3939	457040.5	3767628	2.289E-08	1.17E-09	0.00E+00	2.41E-08	2.29E-08	1.17E-09	0.00E+00	2.41E-08	6.86E-09	2.11E-10	0.00E+00	7.07E-09	2.60E-09	6.81E-11	0.00E+00	2.67E-09
3940	457049.3	3767624	2.322E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.96E-09	2.14E-10	0.00E+00	7.17E-09	2.63E-09	6.91E-11	0.00E+00	2.70E-09
3941	457058.1	3767620	2.354E-08	1.21E-09	0.00E+00	2.48E-08	2.35E-08	1.21E-09	0.00E+00	2.48E-08	7.05E-09	2.17E-10	0.00E+00	7.27E-09	2.67E-09	7.01E-11	0.00E+00	2.74E-09
3942	457066.8	3767617	2.386E-08	1.22E-09	0.00E+00	2.51E-08	2.39E-08	1.22E-09	0.00E+00	2.51E-08	7.15E-09	2.20E-10	0.00E+00	7.37E-09	2.71E-09	7.10E-11	0.00E+00	2.78E-09
3943	456802.2	3768034	9.591E-09	4.92E-10	0.00E+00	1.01E-08	9.59E-09	4.92E-10	0.00E+00	1.01E-08	2.87E-09	8.84E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
3944	456802.2	3768044	9.431E-09	4.83E-10	0.00E+00	9.91E-09	9.43E-09	4.83E-10	0.00E+00	9.91E-09	2.82E-09	8.69E-11	0.00E+00	2.91E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
3945	456802.3	3768053	9.271E-09	4.75E-10	0.00E+00	9.75E-09	9.27E-09	4.75E-10	0.00E+00	9.75E-09	2.78E-09	8.55E-11	0.00E+00	2.86E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
3946	456802.4	3768063	9.111E-09	4.67E-10	0.00E+00	9.58E-09	9.11E-09	4.67E-10	0.00E+00	9.58E-09	2.73E-09	8.40E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
3947	456802.4	3768073	8.95E-09	4.59E-10	0.00E+00	9.41E-09	8.95E-09	4.59E-10	0.00E+00	9.41E-09	2.68E-09	8.25E-11	0.00E+00	2.76E-09	1.02E-09	2.66E-11	0.00E+00	1.04E-09
3948	456802.5	3768082	8.788E-09	4.51E-10	0.00E+00	9.24E-09	8.79E-09	4.51E-10	0.00E+00	9.24E-09	2.63E-09	8.10E-11	0.00E+00	2.71E-09	9.97E-10	2.61E-11	0.00E+00	1.02E-09
3949	456802.6	3768092	8.625E-09	4.42E-10	0.00E+00	9.07E-09	8.63E-09	4.42E-10	0.00E+00	9.07E-09	2.58E-09	7.95E-11	0.00E+00	2.66E-09	9.79E-10	2.57E-11	0.00E+00	1.00E-09
3950	456802.7	3768102	8.463E-09	4.34E-10	0.00E+00	8.90E-09	8.46E-09	4.34E-10	0.00E+00	8.90E-09	2.53E-09	7.80E-11	0.00E+00	2.61E-09	9.60E-10	2.52E-11	0.00E+00	9.85E-10
3951	456802.7	3768111	8.302E-09	4.26E-10	0.00E+00	8.73E-09	8.30E-09	4.26E-10	0.00E+00	8.73E-09	2.49E-09	7.65E-11	0.00E+00	2.56E-09	9.42E-10	2.47E-11	0.00E+00	9.67E-10
3952	456802.8	3768121	8.142E-09	4.17E-10	0.00E+00	8.56E-09	8.14E-09	4.17E-10	0.00E+00	8.56E-09	2.44E-09	7.51E-11	0.00E+00	2.51E-09	9.24E-10	2.42E-11	0.00E+00	9.48E-10
3953	456802.9	3768130	7.983E-09	4.09E-10	0.00E+00	8.39E-09	7.98E-09	4.09E-10	0.00E+00	8.39E-09	2.39E-09	7.36E-11	0.00E+00	2.46E-09	9.06E-10	2.38E-11	0.00E+00	9.29E-10
3954	456803	3768140	7.826E-09	4.01E-10	0.00E+00	8.23E-09	7.83E-09	4.01E-10	0.00E+00	8.23E-09	2.34E-09	7.21E-11	0.00E+00	2.42E-09	8.88E-10	2.33E-11	0.00E+00	9.11E-10
3955	456803	3768150	7.673E-09	3.93E-10	0.00E+00	8.07E-09	7.67E-09	3.93E-10	0.00E+00	8.07E-09	2.30E-09	7.07E-11	0.00E+00	2.37E-09	8.71E-10	2.28E-11	0.00E+00	8.93E-10
3956	456803.1	3768159	7.522E-09	3.86E-10	0.00E+00	7.91E-09	7.52E-09	3.86E-10	0.00E+00	7.91E-09	2.25E-09	6.93E-11	0.00E+00	2.32E-09	8.53E-10	2.24E-11	0.00E+00	8.76E-10
3957	456803.2	3768169	7.371E-09	3.78E-10	0.00E+00	7.75E-09	7.37E-09	3.78E-10	0.00E+00	7.75E-09	2.21E-09	6.79E-11	0.00E+00	2.28E-09	8.36E-10	2.19E-11	0.00E+00	8.58E-10
3958	456803.3	3768178	7.221E-09	3.70E-10	0.00E+00	7.59E-09	7.22E-09	3.70E-10	0.00E+00	7.59E-09	2.16E-09	6.66E-11	0.00E+00	2.23E-09	8.19E-10	2.15E-11	0.00E+00	8.41E-10
3959	456803.3	3768188	7.073E-09	3.63E-10	0.00E+00	7.44E-09	7.07E-09	3.63E-10	0.00E+00	7.44E-09	2.12E-09	6.52E-11	0.00E+00	2.18E-09	8.02E-10	2.10E-11	0.00E+00	8.24E-10
3960	456803.4	3768198	6.928E-09	3.55E-10	0.00E+00	7.28E-09	6.93E-09	3.55E-10	0.00E+00	7.28E-09	2.07E-09	6.39E-11	0.00E+00	2.14E-09	7.86E-10	2.06E-11	0.00E+00	8.07E-10
3961	456803.5	3768207	6.784E-09	3.48E-10	0.00E+00	7.13E-09	6.78E-09	3.48E-10	0.00E+00	7.13E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.70E-10	2.02E-11	0.00E+00	7.90E-10
3962	456803.6	3768217	6.644E-09	3.41E-10	0.00E+00	6.98E-09	6.64E-09	3.41E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.54E-10	1.98E-11	0.00E+00	7.74E-10
3963	456803.6	3768227	6.506E-09	3.34E-10	0.00E+00	6.84E-09	6.51E-09	3.34E-10	0.00E+00	6.84E-09	1.95E-09	6.00E-11	0.00E+00	2.01E-09	7.38E-10	1.94E-11	0.00E+00	7.58E-10
3964	456803.7	3768236	6.372E-09	3.27E-10	0.00E+00	6.70E-09	6.37E-09	3.27E-10	0.00E+00	6.70E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.23E-10	1.90E-11	0.00E+00	7.42E-10
3965	456765.8	3768026	8.785E-09	4.50E-10	0.00E+00	9.24E-09	8.79E-09	4.50E-10	0.00E+00	9.24E-09	2.63E-09	8.10E-11	0.00E+00	2.71E-09	9.97E-10	2.61E-11	0.00E+00	1.02E-09
3966	456769.4	3768017	9.003E-09	4.62E-10	0.00E+00	9.46E-09	9.00E-09	4.62E-10	0.00E+00	9.46E-09	2.70E-09	8.30E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
3967	456773	3768008	9.224E-09	4.73E-10	0.00E+00	9.70E-09	9.22E-09	4.73E-10	0.00E+00	9.70E-09	2.76E-09	8.50E-11	0.00E+00	2.85E-09	1.05E-09	2.74E-11	0.00E+00	1.07E-09
3968	456776.6	3767999	9.448E-09	4.84E-10	0.00E+00	9.93E-09	9.45E-09	4.84E-10	0.00E+00	9.93E-09	2.83E-09	8.71E-11	0.00E+00	2.92E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
3969	456780.2	3767990	9.678E-09	4.96E-10	0.00E+00	1.02E-08	9.68E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.92E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
3970	456783.8	3767981	9.91E-09	5.08E-10	0.00E+00	1.04E-08	9.91E-09	5.08E-10	0.00E+00	1.04E-08	2.97E-09	9.13E-11	0.00E+00	3.06E-09	1.12E-09	2.95E-11	0.00E+00	1.15E-09
3971	456787.4	3767973	1.014E-08	5.20E-10	0.00E+00	1.07E-08	1.01E-08	5.20E-10	0.00E+00	1.07E-08	3.04E-09	9.35E-11	0.00E+00	3.13E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
3972	456791	3767964	1.038E-08	5.32E-10	0.00E+00	1.09E-08	1.04E-08	5.32E-10	0.00E+00	1.09E-08	3.11E-09	9.57E-11	0.00E+00	3.20E-09	1.18E-09	3.09E-11	0.00E+00	1.21E-09
3973	456794.6	3767955	1.062E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.79E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
3974	456798.2	3767946	1.086E-08	5.57E-10	0.00E+00	1.14E-08	1.09E-08	5.57E-10	0.00E+00	1.14E-08	3.25E-09	1.00E-10	0.00E+00	3.35E-09	1.23E-09	3.23E-11	0.00E+00	1.26E-09
3975	456801.8	3767937	1.111E-08	5.69E-10	0.00E+00	1.17E-08	1.11E-08	5.69E-10	0.00E+00	1.17E-08	3.33E-09	1.02E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.29E-09
3976	456805.4	3767928	1.135E-08	5.82E-10	0.00E+00	1.19E-08	1.14E-08	5.82E-10	0.00E+00	1.19E-08	3.40E-09	1.05E-10	0.00E+00	3.51E-09	1.29E-09	3.38E-11	0.00E+00	1.32E-09
3977	456809	3767919	1.16E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.58E-09	1.32E-09	3.45E-11	0.00E+00	1.35E-09
3978	456812.6	3767911	1.185E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.34E-09	3.53E-11	0.00E+00	1.38E-09
3979	456816.2	3767902	1.21E-08	6.20E-10	0.00E+00	1.27E-08	1.21E-08	6.20E-10	0.00E+00	1.27E-08	3.62E-09	1.12E-10	0.00E+00	3.74E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
3980	456819.8	3767893	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.23E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
3981	456823.4	3767884	1.26E-08	6.46E-10	0.00E+00	1.32E-08	1.26E-08	6.46E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.75E-11	0.00E+00	1.47E-09
3982	456827	3767875	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.28E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
3983	456830.6	3767866	1.309E-08	6.71E-10	0.00E+00	1.38E-08	1.31E-08	6.71E-10	0.00E+00	1.38E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.49E-09	3.90E-11	0.00E+00	1.52E-09
3984	456834.2	3767857	1.334E-08	6.84E-10	0.00E+00	1.40E-08	1.33E-08	6.84E-10	0.00E+00	1.40E-08	3.99E-09	1.23E-10	0.00E+00	4.12E-09	1.51E-09	3.97E-11	0.00E+00	1.55E-09
3985	456837.8	3767849	1.358E-08	6.96E-10	0.00E+00	1.43E-08	1.36E-08	6.96E-10	0.00E+00	1.43E-08	4.07E-09	1.25E-10	0.00E+00	4.19E-09	1.54E-09	4.04E-11	0.00E+00	1.58E-09
3986	456841.4	3767840	1.382E-08	7.08E-10	0.00E+00	1.45E-08	1.38E-08	7.08E-10	0.00E+00	1.45E-08	4.14E-09	1.27E-10	0.00E+00	4.27E-09	1.57E-09	4.11E-11	0.00E+00	1.61E-09
3987	456845	3767831	1.405E-08	7.20E-10	0.00E+00	1.48E-08	1.41E-08	7.20E-10	0.00E+00	1.48E-08	4.21E-09	1.30E-10	0.00E+00	4.34E-09	1.59E-09	4.18E-11	0.00E+00	1.64E-09
3988	456848.6	3767822	1.428E-08	7.32E-10	0.00E+00	1.50E-08	1.43E-08	7.32E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.41E-09	1.62E-09	4.25E-11	0.00E+00	1.66E-09
3989	456852.3	3767813	1.451E-08	7.44E-10	0.00E+00	1.52E-08	1.45E-08	7.44E-10	0.00E+00	1.52E-08	4.34E-09	1.34E-10	0.00E+00	4.48E-09	1.65E-09	4.32E-11	0.00E+00	1.69E-09
3990	456855.9	3767804	1.473E-08	7.55E-10	0.00E+00	1.55E-08	1.47E-08	7.55E-10	0.00E+00	1.55E-08	4.41E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.38E-11	0.00E+00	1.71E-09
3991	456859.5	3767795	1.494E-08	7.66E-10	0.00E+00	1.57E-08	1.49E-08	7.66E-10	0.00E+00	1.57E-08	4.48E-09	1.38E-10	0.00E+00	4.61E-09	1.70E-09	4.45E-11	0.00E+00	1.74E-09
3992	456863.1	3767787	1.516E-08	7.77E-10	0.00E+00	1.59E-08	1.52E-08	7.77E-10	0.00E+00	1.59E-08	4.54E-09	1.40E-10	0.00E+00	4.68E-09	1.72E-09	4.51E-11	0.00E+00	1.76E-09
3993	456866.7	3767778	1.536E-08	7.87E-10	0.00E+00	1.61E-08	1.54E-08	7.87E-10	0.00E+00	1.61E-08	4.60E-09	1.42E-10	0.00E+00	4.74E-09	1.74E-09	4.57E-11	0.00E+00	1.79E-09
3994	456870.3	3767769	1.556E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.43E-10	0.00E+00	4.80E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
3995	456873.9	3767760	1.575E-08	8.08E-10	0.00E+00	1.66E-08	1.58E-08	8.08E-10	0.00E+00	1.66E-08	4.72E-09	1.45E-10	0.00E+00	4.86E-09	1.79E-09	4.69E-11	0.00E+00	1.83E-09
3996	456877.5	3767751	1.594E-08	8.17E-10	0.00E+00	1.68E-08	1.59E-08	8.17E-10	0.00E+00	1.68E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.86E-09
3997	456881.1	3767742	1.612E-08	8.26E-10	0.00E+00	1.69E-08	1.61E-08	8.26E-10	0.00E+00	1.69E-08	4.83E-09	1.49E-10	0.00E+00	4.98E-09	1.83E-09	4.80E-11	0.00E+00	1.88E-09
3998	456884.7	3767733	1.629E-08	8.35E-10	0.00E+00	1.71E-08	1.63E-08	8.35E-10	0.00E+00	1.71E-08	4.88E-09	1.50E-10	0.00E+00	5.03E-09	1.85E-09	4.85E-11	0.00E+00	1.90E-09
3999	456888.3	3767725	1.645E-08	8.43E-10	0.00E+00	1.73E-08	1.64E-08	8.43E-10	0.00E+00	1.73E-08	4.93E-09	1.52E-10	0.00E+00	5.08E-09	1.87E-09	4.89E-11	0.00E+00	1.92E-09
4000	456920.7	3767645	1.747E-08	8.95E-10	0.00E+00	1.84E-08	1.75E-08	8.95E-10	0.00E+00	1.84E-08	5.23E-09	1.61E-10	0.00E+00	5.39E-09	1.98E-09	5.20E-11	0.00E+00	2.03E-09
4001	456933.2	3767632	1.787E-08	9.16E-10	0.00E+00	1.88E-08	1.79E-08	9.16E-10	0.00E+00	1.88E-08	5.35E-09	1.65E-10	0.00E+00	5.52E-09	2.03E-09	5.32E-11	0.00E+00	2.08E-09
4002	456942	3767629	1.821E-08	9.34E-10	0.00E+00	1.91E-08	1.82E-08	9.34E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.07E-09	5.42E-11	0.00E+00	2.12E-09
4003	456950.8	3767625	1.855E-08	9.51E-10	0.00E+00	1.95E-08	1.85E-08	9.51E-10	0.00E+00	1.95E-08	5.56E-09	1.71E-10	0.00E+00	5.73E-09	2.10E-09	5.52E-11	0.00E+00	2.16E-09
4004	456959.6	3767621	1.888E-08	9.68E-10	0.00E+00	1.98E-08	1.89E-08	9.68E-10	0.00E+00	1.98E-08	5.66E-09	1.74E-10	0.00E+00	5.83E-09	2.14E-09	5.62E-11	0.00E+00	2.20E-09
4005	456968.4	3767618	1.921E-08	9.85E-10	0.00E+00	2.02E-08	1.92E-08	9.85E-10	0.00E+00	2.02E-08	5.75E-09	1.77E-10	0.00E+00	5.93E-09	2.18E-09	5.72E-11	0.00E+00	2.24E-09
4006	456977.3	3767614	1.955E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.85E-09	1.80E-10	0.00E+00	6.03E-09	2.22E-09	5.82E-11	0.00E+00	2.28E-09
4007	456762.2	3768034	8.572E-09	4.39E-10	0.00E+00	9.01E-09	8.57E-09	4.39E-10	0.00E+00	9.01E-09	2.57E-09	7.90E-11	0.00E+00	2.65E-09	9.72E-10	2.55E-11	0.00E+00	9.98E-10
4008	456762.2	3768044	8.433E-09	4.32E-10	0.00E+00	8.87E-09	8.43E-09	4.32E-10	0.00E+00	8.87E-09	2.53E-09	7.77E-11	0.00E+00	2.60E-09	9.57E-10	2.51E-11	0.00E+00	9.82E-10
4009	456762.3	3768054	8.295E-09	4.25E-10	0.00E+00	8.72E-09	8.29E-09	4.25E-10	0.00E+00	8.72E-09	2.48E-09	7.65E-11	0.00E+00	2.56E-09	9.41E-10	2.47E-11	0.00E+00	9.66E-10
4010	456762.4	3768063	8.156E-09	4.18E-10	0.00E+00	8.57E-09	8.16E-09	4.18E-10	0.00E+00	8.57E-09	2.44E-09	7.52E-11	0.00E+00	2.52E-09	9.25E-10	2.43E-11	0.00E+00	9.50E-10
4011	456762.4	3768073	8.018E-09	4.11E-10	0.00E+00	8.43E-09	8.02E-09	4.11E-10	0.00E+00	8.43E-09	2.40E-09	7.39E-11	0.00E+00	2.48E-09	9.10E-10	2.39E-11	0.00E+00	9.33E-10
4012	456762.5	3768083	7.881E-09	4.04E-10	0.00E+00	8.28E-09	7.88E-09	4.04E-10	0.00E+00	8.28E-09	2.36E-09	7.26E-11	0.00E+00	2.43E-09	8.94E-10	2.35E-11	0.00E+00	9.18E-10
4013	456762.6	3768092	7.745E-09	3.97E-10	0.00E+00	8.14E-09	7.75E-09	3.97E-10	0.00E+00	8.14E-09	2.32E-09	7.14E-11	0.00E+00	2.39E-09	8.79E-10	2.30E-11	0.00E+00	9.02E-10
4014	456762.7	3768102	7.61E-09	3.90E-10	0.00E+00	8.00E-09	7.61E-09	3.90E-10	0.00E+00	8.00E-09	2.28E-09	7.01E-11	0.00E+00	2.35E-09	8.63E-10	2.26E-11	0.00E+00	8.86E-10
4015	456762.7	3768111	7.474E-09	3.83E-10	0.00E+00	7.86E-09	7.47E-09	3.83E-10	0.00E+00	7.86E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.22E-11	0.00E+00	8.70E-10
4016	456762.8	3768121	7.337E-09	3.76E-10	0.00E+00	7.71E-09	7.34E-09	3.76E-10	0.00E+00	7.71E-09	2.20E-09	6.76E-11	0.00E+00	2.27E-09	8.32E-10	2.18E-11	0.00E+00	8.54E-10
4017	456762.9	3768131	7.202E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.64E-11	0.00E+00	2.22E-09	8.17E-10	2.14E-11	0.00E+00	8.39E-10
4018	456763	3768140	7.068E-09	3.62E-10	0.00E+00	7.43E-09	7.07E-09	3.62E-10	0.00E+00	7.43E-09	2.12E-09	6.52E-11	0.00E+00	2.18E-09	8.02E-10	2.10E-11	0.00E+00	8.23E-10
4019	456763	3768150	6.936E-09	3.56E-10	0.00E+00	7.29E-09	6.94E-09	3.56E-10	0.00E+00	7.29E-09	2.08E-09	6.39E-11	0.00E+00	2.14E-09	7.87E-10	2.06E-11	0.00E+00	8.08E-10
4020	456763.1	3768160	6.805E-09	3.49E-10	0.00E+00	7.15E-09	6.80E-09	3.49E-10	0.00E+00	7.15E-09	2.04E-09	6.27E-11	0.00E+00	2.10E-09	7.72E-10	2.02E-11	0.00E+00	7.92E-10
4021	456763.2	3768169	6.676E-09	3.42E-10	0.00E+00	7.02E-09	6.68E-09	3.42E-10	0.00E+00	7.02E-09	2.00E-09	6.15E-11	0.00E+00	2.06E-09	7.57E-10	1.99E-11	0.00E+00	7.77E-10
4022	456763.3	3768179	6.549E-09	3.36E-10	0.00E+00	6.89E-09	6.55E-09	3.36E-10	0.00E+00	6.89E-09	1.96E-09	6.04E-11	0.00E+00	2.02E-09	7.43E-10	1.95E-11	0.00E+00	7.63E-10
4023	456763.3	3768188	6.425E-09	3.29E-10	0.00E+00	6.75E-09	6.42E-09	3.29E-10	0.00E+00	6.75E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
4024	456763.4	3768198	6.302E-09	3.23E-10	0.00E+00	6.62E-09	6.30E-09	3.23E-10	0.00E+00	6.62E-09	1.89E-09	5.81E-11	0.00E+00	1.95E-09	7.15E-10	1.88E-11	0.00E+00	7.34E-10
4025	456763.5	3768208	6.18E-09	3.17E-10	0.00E+00	6.50E-09	6.18E-09	3.17E-10	0.00E+00	6.50E-09	1.85E-09	5.70E-11	0.00E+00	1.91E-09	7.01E-10	1.84E-11	0.00E+00	7.19E-10
4026	456763.6	3768217	6.059E-09	3.11E-10	0.00E+00	6.37E-09	6.06E-09	3.11E-10	0.00E+00	6.37E-09	1.81E-09	5.59E-11	0.00E+00	1.87E-09	6.87E-10	1.80E-11	0.00E+00	7.05E-10
4027	456763.6	3768227	5.941E-09	3.05E-10	0.00E+00	6.25E-09	5.94E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.83E-09	6.74E-10	1.77E-11	0.00E+00	6.92E-10
4028	456763.7	3768236	5.825E-09	2.99E-10	0.00E+00	6.12E-09	5.82E-09	2.99E-10	0.00E+00	6.12E-09	1.74E-09	5.37E-11	0.00E+00	1.80E-09	6.61E-10	1.73E-11	0.00E+00	6.78E-10
4029	456725.8	3768026	7.902E-09	4.05E-10	0.00E+00	8.31E-09	7.90E-09	4.05E-10	0.00E+00	8.31E-09	2.37E-09	7.28E-11	0.00E+00	2.44E-09	8.97E-10	2.35E-11	0.00E+00	9.20E-10

4030	456729.4	3768017	8.09E-09	4.15E-10	0.00E+00	8.50E-09	8.09E-09	4.15E-10	0.00E+00	8.50E-09	2.42E-09	7.46E-11	0.00E+00	2.50E-09	9.18E-10	2.41E-11	0.00E+00	9.42E-10
4031	456733	3768008	8.278E-09	4.24E-10	0.00E+00	8.70E-09	8.28E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.56E-09	9.39E-10	2.46E-11	0.00E+00	9.64E-10
4032	456736.6	3767999	8.469E-09	4.34E-10	0.00E+00	8.90E-09	8.47E-09	4.34E-10	0.00E+00	8.90E-09	2.54E-09	7.81E-11	0.00E+00	2.61E-09	9.61E-10	2.52E-11	0.00E+00	9.86E-10
4033	456740.3	3767990	8.664E-09	4.44E-10	0.00E+00	9.11E-09	8.66E-09	4.44E-10	0.00E+00	9.11E-09	2.59E-09	7.99E-11	0.00E+00	2.67E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
4034	456743.9	3767981	8.863E-09	4.54E-10	0.00E+00	9.32E-09	8.86E-09	4.54E-10	0.00E+00	9.32E-09	2.65E-09	8.17E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
4035	456747.5	3767973	9.066E-09	4.65E-10	0.00E+00	9.53E-09	9.07E-09	4.65E-10	0.00E+00	9.53E-09	2.72E-09	8.36E-11	0.00E+00	2.80E-09	1.03E-09	2.70E-11	0.00E+00	1.06E-09
4036	456751.1	3767964	9.272E-09	4.75E-10	0.00E+00	9.75E-09	9.27E-09	4.75E-10	0.00E+00	9.75E-09	2.78E-09	8.55E-11	0.00E+00	2.86E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
4037	456754.7	3767955	9.481E-09	4.86E-10	0.00E+00	9.97E-09	9.48E-09	4.86E-10	0.00E+00	9.97E-09	2.84E-09	8.74E-11	0.00E+00	2.93E-09	1.08E-09	2.82E-11	0.00E+00	1.10E-09
4038	456758.4	3767946	9.692E-09	4.97E-10	0.00E+00	1.02E-08	9.69E-09	4.97E-10	0.00E+00	1.02E-08	2.90E-09	8.93E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
4039	456762	3767937	9.905E-09	5.08E-10	0.00E+00	1.04E-08	9.90E-09	5.08E-10	0.00E+00	1.04E-08	2.97E-09	9.13E-11	0.00E+00	3.06E-09	1.12E-09	2.95E-11	0.00E+00	1.15E-09
4040	456765.6	3767928	1.012E-08	5.19E-10	0.00E+00	1.06E-08	1.01E-08	5.19E-10	0.00E+00	1.06E-08	3.03E-09	9.33E-11	0.00E+00	3.12E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
4041	456769.2	3767919	1.034E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.10E-09	9.53E-11	0.00E+00	3.19E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
4042	456772.8	3767910	1.055E-08	5.41E-10	0.00E+00	1.11E-08	1.06E-08	5.41E-10	0.00E+00	1.11E-08	3.16E-09	9.73E-11	0.00E+00	3.26E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
4043	456776.5	3767901	1.077E-08	5.52E-10	0.00E+00	1.13E-08	1.08E-08	5.52E-10	0.00E+00	1.13E-08	3.23E-09	9.93E-11	0.00E+00	3.33E-09	1.22E-09	3.21E-11	0.00E+00	1.25E-09
4044	456780.1	3767892	1.099E-08	5.63E-10	0.00E+00	1.16E-08	1.10E-08	5.63E-10	0.00E+00	1.16E-08	3.29E-09	1.01E-10	0.00E+00	3.39E-09	1.25E-09	3.27E-11	0.00E+00	1.28E-09
4045	456783.7	3767884	1.121E-08	5.75E-10	0.00E+00	1.18E-08	1.12E-08	5.75E-10	0.00E+00	1.18E-08	3.36E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.34E-11	0.00E+00	1.30E-09
4046	456787.3	3767875	1.143E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
4047	456790.9	3767866	1.165E-08	5.97E-10	0.00E+00	1.22E-08	1.16E-08	5.97E-10	0.00E+00	1.22E-08	3.49E-09	1.07E-10	0.00E+00	3.60E-09	1.32E-09	3.47E-11	0.00E+00	1.36E-09
4048	456794.6	3767857	1.186E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.35E-09	3.53E-11	0.00E+00	1.38E-09
4049	456798.2	3767848	1.207E-08	6.19E-10	0.00E+00	1.27E-08	1.21E-08	6.19E-10	0.00E+00	1.27E-08	3.62E-09	1.11E-10	0.00E+00	3.73E-09	1.37E-09	3.59E-11	0.00E+00	1.41E-09
4050	456801.8	3767839	1.228E-08	6.29E-10	0.00E+00	1.29E-08	1.23E-08	6.29E-10	0.00E+00	1.29E-08	3.68E-09	1.13E-10	0.00E+00	3.79E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
4051	456805.4	3767830	1.249E-08	6.40E-10	0.00E+00	1.31E-08	1.25E-08	6.40E-10	0.00E+00	1.31E-08	3.74E-09	1.15E-10	0.00E+00	3.86E-09	1.42E-09	3.72E-11	0.00E+00	1.45E-09
4052	456809	3767821	1.27E-08	6.51E-10	0.00E+00	1.34E-08	1.27E-08	6.51E-10	0.00E+00	1.34E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
4053	456812.7	3767812	1.291E-08	6.62E-10	0.00E+00	1.36E-08	1.29E-08	6.62E-10	0.00E+00	1.36E-08	3.87E-09	1.19E-10	0.00E+00	3.98E-09	1.46E-09	3.84E-11	0.00E+00	1.50E-09
4054	456816.3	3767804	1.311E-08	6.72E-10	0.00E+00	1.38E-08	1.31E-08	6.72E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.05E-09	1.49E-09	3.90E-11	0.00E+00	1.53E-09
4055	456819.9	3767795	1.331E-08	6.82E-10	0.00E+00	1.40E-08	1.33E-08	6.82E-10	0.00E+00	1.40E-08	3.99E-09	1.23E-10	0.00E+00	4.11E-09	1.51E-09	3.96E-11	0.00E+00	1.55E-09
4056	456823.5	3767786	1.351E-08	6.93E-10	0.00E+00	1.42E-08	1.35E-08	6.93E-10	0.00E+00	1.42E-08	4.05E-09	1.25E-10	0.00E+00	4.17E-09	1.53E-09	4.02E-11	0.00E+00	1.57E-09
4057	456827.1	3767777	1.37E-08	7.02E-10	0.00E+00	1.44E-08	1.37E-08	7.02E-10	0.00E+00	1.44E-08	4.10E-09	1.26E-10	0.00E+00	4.23E-09	1.55E-09	4.08E-11	0.00E+00	1.60E-09
4058	456830.8	3767768	1.389E-08	7.12E-10	0.00E+00	1.46E-08	1.39E-08	7.12E-10	0.00E+00	1.46E-08	4.16E-09	1.28E-10	0.00E+00	4.29E-09	1.58E-09	4.13E-11	0.00E+00	1.62E-09
4059	456834.4	3767759	1.407E-08	7.22E-10	0.00E+00	1.48E-08	1.41E-08	7.22E-10	0.00E+00	1.48E-08	4.22E-09	1.30E-10	0.00E+00	4.35E-09	1.60E-09	4.19E-11	0.00E+00	1.64E-09
4060	456838	3767750	1.425E-08	7.31E-10	0.00E+00	1.50E-08	1.43E-08	7.31E-10	0.00E+00	1.50E-08	4.27E-09	1.31E-10	0.00E+00	4.40E-09	1.62E-09	4.24E-11	0.00E+00	1.66E-09
4061	456841.6	3767741	1.442E-08	7.39E-10	0.00E+00	1.52E-08	1.44E-08	7.39E-10	0.00E+00	1.52E-08	4.32E-09	1.33E-10	0.00E+00	4.45E-09	1.64E-09	4.29E-11	0.00E+00	1.68E-09
4062	456845.2	3767732	1.459E-08	7.48E-10	0.00E+00	1.53E-08	1.46E-08	7.48E-10	0.00E+00	1.53E-08	4.37E-09	1.34E-10	0.00E+00	4.50E-09	1.66E-09	4.34E-11	0.00E+00	1.70E-09
4063	456848.9	3767724	1.475E-08	7.56E-10	0.00E+00	1.55E-08	1.47E-08	7.56E-10	0.00E+00	1.55E-08	4.42E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.39E-11	0.00E+00	1.72E-09
4064	456852.5	3767715	1.49E-08	7.64E-10	0.00E+00	1.57E-08	1.49E-08	7.64E-10	0.00E+00	1.57E-08	4.46E-09	1.37E-10	0.00E+00	4.60E-09	1.69E-09	4.43E-11	0.00E+00	1.73E-09
4065	456856.1	3767706	1.504E-08	7.71E-10	0.00E+00	1.58E-08	1.50E-08	7.71E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.64E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
4066	456859.7	3767697	1.517E-08	7.78E-10	0.00E+00	1.60E-08	1.52E-08	7.78E-10	0.00E+00	1.60E-08	4.54E-09	1.40E-10	0.00E+00	4.68E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
4067	456863.3	3767688	1.53E-08	7.84E-10	0.00E+00	1.61E-08	1.53E-08	7.84E-10	0.00E+00	1.61E-08	4.58E-09	1.41E-10	0.00E+00	4.72E-09	1.74E-09	4.55E-11	0.00E+00	1.78E-09
4068	456867	3767679	1.542E-08	7.91E-10	0.00E+00	1.62E-08	1.54E-08	7.91E-10	0.00E+00	1.62E-08	4.62E-09	1.42E-10	0.00E+00	4.76E-09	1.75E-09	4.59E-11	0.00E+00	1.80E-09
4069	456870.6	3767670	1.554E-08	7.97E-10	0.00E+00	1.63E-08	1.55E-08	7.97E-10	0.00E+00	1.63E-08	4.65E-09	1.43E-10	0.00E+00	4.80E-09	1.76E-09	4.62E-11	0.00E+00	1.81E-09
4070	456874.2	3767661	1.565E-08	8.02E-10	0.00E+00	1.64E-08	1.56E-08	8.02E-10	0.00E+00	1.64E-08	4.69E-09	1.44E-10	0.00E+00	4.83E-09	1.78E-09	4.66E-11	0.00E+00	1.82E-09
4071	456877.8	3767652	1.575E-08	8.07E-10	0.00E+00	1.66E-08	1.57E-08	8.07E-10	0.00E+00	1.66E-08	4.72E-09	1.45E-10	0.00E+00	4.86E-09	1.79E-09	4.69E-11	0.00E+00	1.83E-09
4072	456881.4	3767643	1.584E-08	8.12E-10	0.00E+00	1.67E-08	1.58E-08	8.12E-10	0.00E+00	1.67E-08	4.74E-09	1.46E-10	0.00E+00	4.89E-09	1.80E-09	4.71E-11	0.00E+00	1.84E-09
4073	456885.1	3767635	1.593E-08	8.17E-10	0.00E+00	1.67E-08	1.59E-08	8.17E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
4074	456888.7	3767626	1.6E-08	8.20E-10	0.00E+00	1.68E-08	1.60E-08	8.20E-10	0.00E+00	1.68E-08	4.79E-09	1.48E-10	0.00E+00	4.94E-09	1.82E-09	4.76E-11	0.00E+00	1.86E-09
4075	456722.2	3768035	7.718E-09	3.96E-10	0.00E+00	8.11E-09	7.72E-09	3.96E-10	0.00E+00	8.11E-09	2.31E-09	7.11E-11	0.00E+00	2.38E-09	8.76E-10	2.30E-11	0.00E+00	8.99E-10
4076	456722.2	3768044	7.598E-09	3.90E-10	0.00E+00	7.99E-09	7.60E-09	3.90E-10	0.00E+00	7.99E-09	2.28E-09	7.00E-11	0.00E+00	2.35E-09	8.62E-10	2.26E-11	0.00E+00	8.85E-10
4077	456722.3	3768054	7.479E-09	3.83E-10	0.00E+00	7.86E-09	7.48E-09	3.83E-10	0.00E+00	7.86E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.23E-11	0.00E+00	8.71E-10
4078	456722.4	3768064	7.359E-09	3.77E-10	0.00E+00	7.74E-09	7.36E-09	3.77E-10	0.00E+00	7.74E-09	2.20E-09	6.78E-11	0.00E+00	2.27E-09	8.35E-10	2.19E-11	0.00E+00	8.57E-10
4079	456722.4	3768073	7.239E-09	3.71E-10	0.00E+00	7.61E-09	7.24E-09	3.71E-10	0.00E+00	7.61E-09	2.17E-09	6.67E-11	0.00E+00	2.23E-09	8.21E-10	2.15E-11	0.00E+00	8.43E-10
4080	456722.5	3768083	7.122E-09	3.65E-10	0.00E+00	7.49E-09	7.12E-09	3.65E-10	0.00E+00	7.49E-09	2.13E-09	6.56E-11	0.00E+00	2.20E-09	8.08E-10	2.12E-11	0.00E+00	8.29E-10
4081	456722.6	3768093	7.004E-09	3.59E-10	0.00E+00	7.36E-09	7.00E-09	3.59E-10	0.00E+00	7.36E-09	2.10E-09	6.46E-11	0.00E+00	2.16E-09	7.95E-10	2.08E-11	0.00E+00	8.16E-10
4082	456722.7	3768102	6.888E-09	3.53E-10	0.00E+00	7.24E-09	6.89E-09	3.53E-10	0.00E+00	7.24E-09	2.06E-09	6.35E-11	0.00E+00	2.13E-09	7.81E-10	2.05E-11	0.00E+00	8.02E-10
4083	456722.7	3768112	6.771E-09	3.47E-10	0.00E+00	7.12E-09	6.77E-09	3.47E-10	0.00E+00	7.12E-09	2.03E-09	6.24E-11	0.00E+00	2.09E-09	7.68E-10	2.01E-11	0.00E+00	7.88E-10
4084	456722.8	3768121	6.654E-09	3.41E-10	0.00E+00	7.00E-09	6.65E-09	3.41E-10	0.00E+00	7.00E-09	1.99E-09	6.13E-11	0.00E+00	2.05E-09	7.55E-10	1.98E-11	0.00E+00	7.75E-10
4085	456722.9	3768131	6.539E-09	3.35E-10	0.00E+00	6.87E-09	6.54E-09	3.35E-10	0.00E+00	6.87E-09	1.96E-09	6.03E-11	0.00E+00	2.02E-09	7.42E-10	1.95E-11	0.00E+00	7.61E-10
4086	456723	3768141	6.424E-09	3.29E-10	0.00E+00	6.75E-09	6.42E-09	3.29E-10	0.00E+00	6.75E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
4087	456723	3768150	6.309E-09	3.23E-10	0.00E+00	6.63E-09	6.31E-09	3.23E-10	0.00E+00	6.63E-09	1.89E-09	5.82E-11	0.00E+00	1.95E-09	7.16E-10	1.88E-11	0.00E+00	7.35E-10
4088	456723.1	3768160	6.197E-09	3.18E-10	0.00E+00	6.51E-09	6.20E-09	3.18E-10	0.00E+00	6.51E-09	1.86E-09	5.71E-11	0.00E+00	1.91E-09	7.03E-10	1.84E-11	0.00E+00	7.21E-10
4089	456723.2	3768169	6.085E-09	3.12E-10	0.00E+00	6.40E-09	6.09E-09	3.12E-10	0.00E+00	6.40E-09	1.82E-09	5.61E-11	0.00E+00	1.88E-09	6.90E-10	1.81E-11	0.00E+00	7.09E-10
4090	456723.3	3768179	5.976E-09	3.06E-10	0.00E+00	6.28E-09	5.98E-09	3.06E-10	0.00E+00	6.28E-09	1.79E-09	5.51E-11	0.00E+00	1.85E-09	6.78E-10	1.78E-11	0.00E+00	6.96E-10
4091	456723.3	3768189	5.869E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.83E-10
4092	456723.4	3768198	5.763E-09	2.95E-10	0.00E+00	6.06E-09	5.76E-09	2.95E-10	0.00E+00	6.06E-09	1.73E-09	5.31E-11	0.00E+00	1.78E-09	6.54E-10	1.71E-11	0.00E+00	6.71E-10
4093	456723.5	3768208	5.657E-09	2.90E-10	0.00E+00	5.95E-09	5.66E-09	2.90E-10	0.00E+00	5.95E-09	1.69E-09	5.22E-11	0.00E+00	1.75E-09	6.42E-10	1.68E-11	0.00E+00	6.59E-10
4094	456723.6	3768218	5.554E-09	2.85E-10	0.00E+00	5.84E-09	5.55E-09	2.85E-10	0.00E+00	5.84E-09	1.66E-09	5.12E-11	0.00E+00	1.71E-09	6.30E-10	1.65E-11	0.00E+00	6.47E-10
4095	456723.6	3768227	5.451E-09	2.79E-10	0.00E+00	5.73E-09	5.45E-09	2.79E-10	0.00E+00	5.73E-09	1.63E-09	5.03E-11	0.00E+00	1.68E-09	6.18E-10	1.62E-11	0.00E+00	6.35E-10
4096	456723.7	3768237	5.351E-09	2.74E-10	0.00E+00	5.63E-09	5.35E-09	2.74E-10	0.00E+00	5.63E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.07E-10	1.59E-11	0.00E+00	6.23E-10
4097	456685.7	3768026	7.147E-09	3.66E-10	0.00E+00	7.51E-09	7.15E-09	3.66E-10	0.00E+00	7.51E-09	2.14E-09	6.59E-11	0.00E+00	2.21E-09	8.11E-10	2.13E-11	0.00E+00	8.32E-10
4098	456689.3	3768018	7.306E-09	3.75E-10	0.00E+00	7.68E-09	7.31E-09	3.75E-10	0.00E+00	7.68E-09	2.19E-09	6.74E-11	0.00E+00	2.26E-09	8.29E-10	2.17E-11	0.00E+00	8.51E-10
4099	456692.8	3768009	7.468E-09	3.83E-10	0.00E+00	7.85E-09	7.47E-09	3.83E-10	0.00E+00	7.85E-09	2.24E-09	6.88E-11	0.00E+00	2.31E-09	8.47E-10	2.22E-11	0.00E+00	8.70E-10
4100	456696.4	3768000	7.632E-09	3.91E-10	0.00E+00	8.02E-09	7.63E-09	3.91E-10	0.00E+00	8.02E-09	2.29E-09	7.04E-11	0.00E+00	2.36E-09	8.66E-10	2.27E-11	0.00E+00	8.89E-10
4101	456700	3767991	7.797E-09	4.00E-10	0.00E+00	8.20E-09	7.80E-09	4.00E-10	0.00E+00	8.20E-09	2.34E-09	7.19E-11	0.00E+00	2.41E-09	8.85E-10	2.32E-11	0.00E+00	9.08E-10
4102	456703.5	3767983	7.966E-09	4.08E-10	0.00E+00	8.37E-09	7.97E-09	4.08E-10	0.00E+00	8.37E-09	2.39E-09	7.34E-11	0.00E+00	2.46E-09	9.04E-10	2.37E-11	0.00E+00	9.27E-10
4103	456707.1	3767974	8.139E-09	4.17E-10	0.00E+00	8.56E-09	8.14E-09	4.17E-10	0.00E+00	8.56E-09	2.44E-09	7.50E-11	0.00E+00	2.51E-09	9.23E-10	2.42E-11	0.00E+00	9.48E-10
4104	456710.7	3767965	8.314E-09	4.26E-10	0.00E+00	8.74E-09	8.31E-09	4.26E-10	0.00E+00	8.74E-09	2.49E-09	7.66E-11	0.00E+00	2.57E-09	9.43E-10	2.47E-11	0.00E+00	9.68E-10
4105	456714.2	3767956	8.492E-09	4.35E-10	0.00E+00	8.93E-09	8.49E-09	4.35E-10	0.00E+00	8.93E-09	2.54E-09	7.83E-11	0.00E+00	2.62E-09	9.63E-10	2.53E-11	0.00E+00	9.89E-10
4106	456717.8	3767948	8.67E-09	4.44E-10	0.00E+00	9.11E-09	8.67E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.84E-10	2.58E-11	0.00E+00	1.01E-09
4107	456721.4	3767939	8.851E-09	4.54E-10	0.00E+00	9.30E-09	8.85E-09	4.54E-10	0.00E+00	9.30E-09	2.65E-09	8.16E-11	0.00E+00	2.73E-09	1.00E-09	2.63E-11	0.00E+00	1.03E-09
4108	456724.9	3767930	9.035E-09	4.63E-10	0.00E+00	9.50E-09	9.03E-09	4.63E-10	0.00E+00	9.50E-09	2.71E-09	8.33E-11	0.00E+00	2.79E-09	1.03E-09	2.69E-11	0.00E+00	1.05E-09
4109	456728.5	3767921	9.219E-09	4.73E-10	0.00E+00	9.69E-09	9.22E-09	4.73E-10	0.00E+00	9.69E-09	2.76E-09	8.50E-11	0.00E+00	2.85E-09	1.05E-09	2.74E-11	0.00E+00	1.07E-09
4110	456732.1	3767913	9.402E-09	4.82E-10	0.00E+00	9.88E-09	9.40E-09	4.82E-10	0.00E+00	9.88E-09	2.82E-09	8.67E-11	0.00E+00	2.90E-09	1.07E-09	2.80E-11	0.00E+00	1.09E-09
4111	456735.6	3767904	9.587E-09	4.91E-10	0.00E+00	1.01E-08	9.59E-09	4.91E-10	0.00E+00	1.01E-08	2.87E-09	8.84E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
4112	456739.2	3767895	9.774E-09	5.01E-10	0.00E+00	1.03E-08	9.77E-09	5.01E-10	0.00E+00	1.03E-08	2.93E-09	9.01E-11	0.00E+00	3.02E-09	1.11E-09	2.91E-11	0.00E+00	1.14E-09
4113	456742.7	3767886	9.963E-09	5.11E-10	0.00E+00	1.05E-08	9.96E-09	5.11E-10	0.00E+00	1.05E-08	2.98E-09	9.18E-11	0.00E+00	3.08E-09	1.13E-09	2.96E-11	0.00E+00	1.16E-09
4114	456746.3	3767877	1.015E-08	5.20E-10	0.00E+00	1.07E-08	1.02E-08	5.20E-10	0.00E+00	1.07E-08	3.04E-09	9.36E-11	0.00E+00	3.13E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
4115	456749.9	3767869	1.034E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.10E-09	9.53E-11	0.00E+00	3.19E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
4116	456753.4	3767860	1.053E-08	5.40E-10	0.00E+00	1.11E-08	1.05E-08	5.40E-10	0.00E+00	1.11E-08	3.15E-09	9.70E-11	0.00E+00	3.25E-09	1.19E-09	3.13E-11	0.00E+00	1.23E-09
4117	456757	3767851	1.072E-08	5.49E-10	0.00E+00	1.13E-08	1.07E-08	5.49E-10	0.00E+00	1.13E-08	3.21E-09	9.88E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
4118	456760.6	3767842	1.09E-08	5.59E-10	0.00E+00	1.15E-08	1.09E-08	5.59E-10	0.00E+00	1.15E-08	3.27E-09	1.01E-10	0.00E+00	3.37E-09	1.24E-09	3.24E-11	0.00E+00	1.27E-09
4119	456764.1	3767834	1.109E-08	5.69E-10	0.00E+00	1.17E-08	1.11E-08	5.69E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
4120	456767.7	3767825	1.128E-08	5.78E-10	0.00E+00	1.19E-08	1.13E-08	5.78E-10	0.00E+00	1.19E-08	3.38E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.36E-11	0.00E+00	1.31E-09
4121	456771.3	3767816	1.146E-08	5.88E-10	0.00E+00	1.21E-08	1.15E-08	5.88E-10	0.00E+00	1.21E-08	3.43E-09	1.06E-10	0.00E+00	3.54E-09	1.30E-09	3.41E-11	0.00E+00	1.33E-09
4122	456774.8	3767807	1.165E-08	5.97E-10	0.00E+00	1.22E-08	1.16E-08	5.97E-10	0.00E+00	1.22E-08	3.49E-09	1.07E-10	0.00E+00	3.60E-09	1.32E-09	3.47E-11	0.00E+00	1.36E-09
4123	456778.4	3767799	1.183E-08	6.06E-10	0.00E+00	1.24E-08	1.18E-08	6.06E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
4124	456782	3767790	1.201E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
4125	456785.5	3767781	1.218E-08	6.24E-10	0.00E+00	1.28E-08	1.22E-08	6.24E-10	0.00E+00	1.28E-08	3.65E-09	1.12E-10	0.00E+00	3.76E-09	1.38E-09	3.62E-11	0.00E+00	1.42E-09
4126	456789.1	3767772	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.24E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
4127	456792.6	3767764	1.252E-08	6.42E-10	0.00E+00	1.32E-08	1.25E-08	6.42E-10	0.00E+00	1.32E-08	3.75E-09	1.15E-10	0.00E+00	3.87E-09	1.42E-09	3.73E-11	0.00E+00	1.46E-09
4128	456796.2	3767755	1.269E-08	6.51E-10	0.00E+00	1.33E-08	1.27E-08	6.51E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
4129	456799.8	3767746	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.29E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
4130	456803.3	3767737	1.301E-08	6.67E-10	0.00E+00	1.37E-08	1.30E-08	6.67E-10	0.00E+00	1.37E-08	3.90E-09	1.20E-10	0.00E+00	4.02E-09	1.48E-09	3.87E-11	0.00E+00	1.51E-09
4131	456806.9	3767729	1.315E-08	6.74E-10	0.00E+00	1.38E-08	1.32E-08	6.74E-10	0.00E+00	1.38E-08	3.94E-09	1.21E-10	0.00E+00	4.06E-09	1.49E-09	3.91E-11	0.00E+00	1.53E-09
4132	456810.5	3767720	1.33E-08	6.82E-10	0.00E+00	1.40E-08	1.33E-08	6.82E-10	0.00E+00	1.40E-08	3.98E-09	1.23E-10	0.00E+00	4.10E-09	1.51E-09	3.96E-11	0.00E+00	1.55E-09
4133	456814	3767711	1.344E-08	6.89E-10	0.00E+00	1.41E-08	1.34E-08	6.89E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.15E-09	1.52E-09	4.00E-11	0.00E+00	1.56E-09
4134	456817.6	3767702	1.358E-08	6.96E-10	0.00E+00	1.43E-08	1.36E-08	6.96E-10	0.00E+00	1.43E-08	4.07E-09	1.25E-10	0.00E+00	4.19E-09	1.54E-09	4.04E-11	0.00E+00	1.58E-09
4135	456821.2	3767694	1.371E-08	7.03E-10	0.00E+00	1.44E-08	1.37E-08	7.03E-10	0.00E+00	1.44E-08	4.11E-09	1.26E-10	0.00E+00	4.23E-09	1.56E-09	4.08E-11	0.00E+00	1.60E-09
4136	456824.7	3767685	1.384E-08	7.10E-10	0.00E+00	1.45E-08	1.38E-08	7.10E-10	0.00E+00	1.45E-08	4.15E-09	1.28E-10	0.00E+00	4.27E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
4137	456828.3	3767676	1.396E-08	7.16E-10	0.00E+00	1.47E-08	1.40E-08	7.16E-10	0.00E+00	1.47E-08	4.18E-09	1.29E-10	0.00E+00	4.31E-09	1.58E-09	4.16E-11	0.00E+00	1.63E-09
4138	456831.9	3767667	1.408E-08	7.22E-10	0.00E+00	1.48E-08	1.41E-08	7.22E-10	0.00E+00	1.48E-08	4.22E-09	1.30E-10	0.00E+00	4.35E-09	1.60E-09	4.19E-11	0.00E+00	1.64E-09
4139	456835.4	3767659	1.419E-08	7.28E-10	0.00E+00	1.49E-08	1.42E-08	7.28E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.38E-09	1.61E-09	4.22E-11	0.00E+00	1.65E-09
4140	456839	3767650	1.43E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.41E-09	1.62E-09	4.25E-11	0.00E+00	1.66E-09
4141	456842.6	3767641	1.439E-08	7.38E-10	0.00E+00	1.51E-08	1.44E-08	7.38E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.44E-09	1.63E-09	4.28E-11	0.00E+00	1.68E-09

4142	456846.1	3767632	1.449E-08	7.43E-10	0.00E+00	1.52E-08	1.45E-08	7.43E-10	0.00E+00	1.52E-08	4.34E-09	1.34E-10	0.00E+00	4.47E-09	1.64E-09	4.31E-11	0.00E+00	1.69E-09
4143	456849.7	3767624	1.457E-08	7.47E-10	0.00E+00	1.53E-08	1.46E-08	7.47E-10	0.00E+00	1.53E-08	4.36E-09	1.34E-10	0.00E+00	4.50E-09	1.65E-09	4.34E-11	0.00E+00	1.70E-09
4144	456853.2	3767615	1.465E-08	7.51E-10	0.00E+00	1.54E-08	1.46E-08	7.51E-10	0.00E+00	1.54E-08	4.39E-09	1.35E-10	0.00E+00	4.52E-09	1.66E-09	4.36E-11	0.00E+00	1.71E-09
4145	456682.2	3768035	6.991E-09	3.58E-10	0.00E+00	7.35E-09	6.99E-09	3.58E-10	0.00E+00	7.35E-09	2.09E-09	6.44E-11	0.00E+00	2.16E-09	7.93E-10	2.08E-11	0.00E+00	8.14E-10
4146	456682.2	3768045	6.889E-09	3.53E-10	0.00E+00	7.24E-09	6.89E-09	3.53E-10	0.00E+00	7.24E-09	2.06E-09	6.35E-11	0.00E+00	2.13E-09	7.82E-10	2.05E-11	0.00E+00	8.02E-10
4147	456682.3	3768054	6.785E-09	3.48E-10	0.00E+00	7.13E-09	6.79E-09	3.48E-10	0.00E+00	7.13E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.70E-10	2.02E-11	0.00E+00	7.90E-10
4148	456682.4	3768064	6.681E-09	3.43E-10	0.00E+00	7.02E-09	6.68E-09	3.43E-10	0.00E+00	7.02E-09	2.00E-09	6.16E-11	0.00E+00	2.06E-09	7.58E-10	1.99E-11	0.00E+00	7.78E-10
4149	456682.4	3768074	6.577E-09	3.37E-10	0.00E+00	6.91E-09	6.58E-09	3.37E-10	0.00E+00	6.91E-09	1.97E-09	6.06E-11	0.00E+00	2.03E-09	7.46E-10	1.96E-11	0.00E+00	7.66E-10
4150	456682.5	3768083	6.474E-09	3.32E-10	0.00E+00	6.81E-09	6.47E-09	3.32E-10	0.00E+00	6.81E-09	1.94E-09	5.97E-11	0.00E+00	2.00E-09	7.34E-10	1.93E-11	0.00E+00	7.54E-10
4151	456682.6	3768093	6.371E-09	3.27E-10	0.00E+00	6.70E-09	6.37E-09	3.27E-10	0.00E+00	6.70E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.23E-10	1.90E-11	0.00E+00	7.42E-10
4152	456682.7	3768102	6.268E-09	3.21E-10	0.00E+00	6.59E-09	6.27E-09	3.21E-10	0.00E+00	6.59E-09	1.88E-09	5.78E-11	0.00E+00	1.94E-09	7.11E-10	1.87E-11	0.00E+00	7.30E-10
4153	456682.7	3768112	6.167E-09	3.16E-10	0.00E+00	6.48E-09	6.17E-09	3.16E-10	0.00E+00	6.48E-09	1.85E-09	5.69E-11	0.00E+00	1.90E-09	7.00E-10	1.84E-11	0.00E+00	7.18E-10
4154	456682.8	3768122	6.068E-09	3.11E-10	0.00E+00	6.38E-09	6.07E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.59E-11	0.00E+00	1.87E-09	6.88E-10	1.81E-11	0.00E+00	7.06E-10
4155	456682.9	3768131	5.969E-09	3.06E-10	0.00E+00	6.28E-09	5.97E-09	3.06E-10	0.00E+00	6.28E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.78E-11	0.00E+00	6.95E-10
4156	456683	3768141	5.87E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.83E-10
4157	456683	3768151	5.771E-09	2.96E-10	0.00E+00	6.07E-09	5.77E-09	2.96E-10	0.00E+00	6.07E-09	1.73E-09	5.32E-11	0.00E+00	1.78E-09	6.55E-10	1.72E-11	0.00E+00	6.72E-10
4158	456683.1	3768160	5.673E-09	2.91E-10	0.00E+00	5.96E-09	5.67E-09	2.91E-10	0.00E+00	5.96E-09	1.70E-09	5.23E-11	0.00E+00	1.75E-09	6.44E-10	1.69E-11	0.00E+00	6.61E-10
4159	456683.2	3768170	5.576E-09	2.86E-10	0.00E+00	5.86E-09	5.58E-09	2.86E-10	0.00E+00	5.86E-09	1.67E-09	5.14E-11	0.00E+00	1.72E-09	6.33E-10	1.66E-11	0.00E+00	6.49E-10
4160	456683.3	3768179	5.481E-09	2.81E-10	0.00E+00	5.76E-09	5.48E-09	2.81E-10	0.00E+00	5.76E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.22E-10	1.63E-11	0.00E+00	6.38E-10
4161	456683.3	3768189	5.386E-09	2.76E-10	0.00E+00	5.66E-09	5.39E-09	2.76E-10	0.00E+00	5.66E-09	1.61E-09	4.96E-11	0.00E+00	1.66E-09	6.11E-10	1.60E-11	0.00E+00	6.27E-10
4162	456683.4	3768199	5.293E-09	2.71E-10	0.00E+00	5.56E-09	5.29E-09	2.71E-10	0.00E+00	5.56E-09	1.59E-09	4.88E-11	0.00E+00	1.63E-09	6.01E-10	1.58E-11	0.00E+00	6.16E-10
4163	456683.5	3768208	5.202E-09	2.67E-10	0.00E+00	5.47E-09	5.20E-09	2.67E-10	0.00E+00	5.47E-09	1.56E-09	4.80E-11	0.00E+00	1.61E-09	5.90E-10	1.55E-11	0.00E+00	6.06E-10
4164	456683.6	3768218	5.113E-09	2.62E-10	0.00E+00	5.38E-09	5.11E-09	2.62E-10	0.00E+00	5.38E-09	1.53E-09	4.71E-11	0.00E+00	1.58E-09	5.80E-10	1.52E-11	0.00E+00	5.95E-10
4165	456683.6	3768227	5.025E-09	2.58E-10	0.00E+00	5.28E-09	5.02E-09	2.58E-10	0.00E+00	5.28E-09	1.51E-09	4.63E-11	0.00E+00	1.55E-09	5.70E-10	1.50E-11	0.00E+00	5.85E-10
4166	456683.7	3768237	4.937E-09	2.53E-10	0.00E+00	5.19E-09	4.94E-09	2.53E-10	0.00E+00	5.19E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.75E-10
4167	456645.7	3768027	6.502E-09	3.33E-10	0.00E+00	6.84E-09	6.50E-09	3.33E-10	0.00E+00	6.84E-09	1.95E-09	5.99E-11	0.00E+00	2.01E-09	7.38E-10	1.93E-11	0.00E+00	7.57E-10
4168	456649.3	3768018	6.641E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.98E-11	0.00E+00	7.73E-10
4169	456652.9	3768009	6.782E-09	3.48E-10	0.00E+00	7.13E-09	6.78E-09	3.48E-10	0.00E+00	7.13E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.69E-10	2.02E-11	0.00E+00	7.90E-10
4170	456656.5	3768000	6.927E-09	3.55E-10	0.00E+00	7.28E-09	6.93E-09	3.55E-10	0.00E+00	7.28E-09	2.07E-09	6.38E-11	0.00E+00	2.14E-09	7.86E-10	2.06E-11	0.00E+00	8.06E-10
4171	456660.1	3767991	7.073E-09	3.63E-10	0.00E+00	7.44E-09	7.07E-09	3.63E-10	0.00E+00	7.44E-09	2.12E-09	6.52E-11	0.00E+00	2.18E-09	8.02E-10	2.10E-11	0.00E+00	8.24E-10
4172	456663.6	3767983	7.221E-09	3.70E-10	0.00E+00	7.59E-09	7.22E-09	3.70E-10	0.00E+00	7.59E-09	2.16E-09	6.66E-11	0.00E+00	2.23E-09	8.19E-10	2.15E-11	0.00E+00	8.41E-10
4173	456667.2	3767974	7.369E-09	3.78E-10	0.00E+00	7.75E-09	7.37E-09	3.78E-10	0.00E+00	7.75E-09	2.21E-09	6.79E-11	0.00E+00	2.28E-09	8.36E-10	2.19E-11	0.00E+00	8.58E-10
4174	456670.8	3767965	7.52E-09	3.86E-10	0.00E+00	7.91E-09	7.52E-09	3.86E-10	0.00E+00	7.91E-09	2.25E-09	6.93E-11	0.00E+00	2.32E-09	8.53E-10	2.24E-11	0.00E+00	8.76E-10
4175	456674.4	3767956	7.674E-09	3.93E-10	0.00E+00	8.07E-09	7.67E-09	3.93E-10	0.00E+00	8.07E-09	2.30E-09	7.07E-11	0.00E+00	2.37E-09	8.71E-10	2.28E-11	0.00E+00	8.93E-10
4176	456678	3767947	7.832E-09	4.02E-10	0.00E+00	8.23E-09	7.83E-09	4.02E-10	0.00E+00	8.23E-09	2.35E-09	7.22E-11	0.00E+00	2.42E-09	8.89E-10	2.33E-11	0.00E+00	9.12E-10
4177	456681.5	3767939	7.99E-09	4.10E-10	0.00E+00	8.40E-09	7.99E-09	4.10E-10	0.00E+00	8.40E-09	2.39E-09	7.37E-11	0.00E+00	2.47E-09	9.07E-10	2.38E-11	0.00E+00	9.30E-10
4178	456685.1	3767930	8.15E-09	4.18E-10	0.00E+00	8.57E-09	8.15E-09	4.18E-10	0.00E+00	8.57E-09	2.44E-09	7.51E-11	0.00E+00	2.52E-09	9.25E-10	2.43E-11	0.00E+00	9.49E-10
4179	456688.7	3767921	8.311E-09	4.26E-10	0.00E+00	8.74E-09	8.31E-09	4.26E-10	0.00E+00	8.74E-09	2.49E-09	7.66E-11	0.00E+00	2.57E-09	9.43E-10	2.47E-11	0.00E+00	9.68E-10
4180	456692.3	3767912	8.475E-09	4.34E-10	0.00E+00	8.91E-09	8.48E-09	4.34E-10	0.00E+00	8.91E-09	2.54E-09	7.81E-11	0.00E+00	2.62E-09	9.62E-10	2.52E-11	0.00E+00	9.87E-10
4181	456695.9	3767903	8.64E-09	4.43E-10	0.00E+00	9.08E-09	8.64E-09	4.43E-10	0.00E+00	9.08E-09	2.59E-09	7.96E-11	0.00E+00	2.67E-09	9.80E-10	2.57E-11	0.00E+00	1.01E-09
4182	456699.4	3767895	8.806E-09	4.51E-10	0.00E+00	9.26E-09	8.81E-09	4.51E-10	0.00E+00	9.26E-09	2.64E-09	8.12E-11	0.00E+00	2.72E-09	9.99E-10	2.62E-11	0.00E+00	1.03E-09
4183	456703	3767886	8.973E-09	4.60E-10	0.00E+00	9.43E-09	8.97E-09	4.60E-10	0.00E+00	9.43E-09	2.69E-09	8.27E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
4184	456706.6	3767877	9.14E-09	4.69E-10	0.00E+00	9.61E-09	9.14E-09	4.69E-10	0.00E+00	9.61E-09	2.74E-09	8.43E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
4185	456710.2	3767868	9.308E-09	4.77E-10	0.00E+00	9.79E-09	9.31E-09	4.77E-10	0.00E+00	9.79E-09	2.79E-09	8.58E-11	0.00E+00	2.87E-09	1.06E-09	2.77E-11	0.00E+00	1.08E-09
4186	456713.8	3767859	9.477E-09	4.86E-10	0.00E+00	9.96E-09	9.48E-09	4.86E-10	0.00E+00	9.96E-09	2.84E-09	8.74E-11	0.00E+00	2.93E-09	1.08E-09	2.82E-11	0.00E+00	1.10E-09
4187	456717.3	3767851	9.645E-09	4.94E-10	0.00E+00	1.01E-08	9.64E-09	4.94E-10	0.00E+00	1.01E-08	2.89E-09	8.89E-11	0.00E+00	2.98E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
4188	456720.9	3767842	9.813E-09	5.03E-10	0.00E+00	1.03E-08	9.81E-09	5.03E-10	0.00E+00	1.03E-08	2.94E-09	9.05E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
4189	456724.5	3767833	9.981E-09	5.12E-10	0.00E+00	1.05E-08	9.98E-09	5.12E-10	0.00E+00	1.05E-08	2.99E-09	9.20E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
4190	456728.1	3767824	1.015E-08	5.20E-10	0.00E+00	1.07E-08	1.01E-08	5.20E-10	0.00E+00	1.07E-08	3.04E-09	9.35E-11	0.00E+00	3.13E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
4191	456731.7	3767815	1.032E-08	5.29E-10	0.00E+00	1.08E-08	1.03E-08	5.29E-10	0.00E+00	1.08E-08	3.09E-09	9.51E-11	0.00E+00	3.18E-09	1.17E-09	3.07E-11	0.00E+00	1.20E-09
4192	456735.3	3767807	1.048E-08	5.37E-10	0.00E+00	1.10E-08	1.05E-08	5.37E-10	0.00E+00	1.10E-08	3.14E-09	9.66E-11	0.00E+00	3.24E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
4193	456738.8	3767798	1.064E-08	5.46E-10	0.00E+00	1.12E-08	1.06E-08	5.46E-10	0.00E+00	1.12E-08	3.19E-09	9.81E-11	0.00E+00	3.29E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
4194	456742.4	3767789	1.08E-08	5.54E-10	0.00E+00	1.14E-08	1.08E-08	5.54E-10	0.00E+00	1.14E-08	3.24E-09	9.96E-11	0.00E+00	3.33E-09	1.23E-09	3.21E-11	0.00E+00	1.26E-09
4195	456746	3767780	1.096E-08	5.62E-10	0.00E+00	1.15E-08	1.10E-08	5.62E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.28E-09
4196	456749.6	3767772	1.112E-08	5.70E-10	0.00E+00	1.17E-08	1.11E-08	5.70E-10	0.00E+00	1.17E-08	3.33E-09	1.03E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.29E-09
4197	456753.2	3767763	1.127E-08	5.78E-10	0.00E+00	1.19E-08	1.13E-08	5.78E-10	0.00E+00	1.19E-08	3.38E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.36E-11	0.00E+00	1.31E-09
4198	456756.7	3767754	1.143E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
4199	456760.3	3767745	1.157E-08	5.93E-10	0.00E+00	1.22E-08	1.16E-08	5.93E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09
4200	456763.9	3767736	1.172E-08	6.01E-10	0.00E+00	1.23E-08	1.17E-08	6.01E-10	0.00E+00	1.23E-08	3.51E-09	1.08E-10	0.00E+00	3.62E-09	1.33E-09	3.49E-11	0.00E+00	1.36E-09
4201	456767.5	3767728	1.187E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.35E-09	3.53E-11	0.00E+00	1.38E-09
4202	456771.1	3767719	1.201E-08	6.16E-10	0.00E+00	1.26E-08	1.20E-08	6.16E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
4203	456774.6	3767710	1.215E-08	6.23E-10	0.00E+00	1.28E-08	1.21E-08	6.23E-10	0.00E+00	1.28E-08	3.64E-09	1.12E-10	0.00E+00	3.75E-09	1.38E-09	3.61E-11	0.00E+00	1.41E-09
4204	456778.2	3767701	1.228E-08	6.30E-10	0.00E+00	1.29E-08	1.23E-08	6.30E-10	0.00E+00	1.29E-08	3.68E-09	1.13E-10	0.00E+00	3.79E-09	1.39E-09	3.65E-11	0.00E+00	1.43E-09
4205	456781.8	3767692	1.241E-08	6.36E-10	0.00E+00	1.30E-08	1.24E-08	6.36E-10	0.00E+00	1.30E-08	3.72E-09	1.14E-10	0.00E+00	3.83E-09	1.41E-09	3.69E-11	0.00E+00	1.44E-09
4206	456785.4	3767684	1.254E-08	6.43E-10	0.00E+00	1.32E-08	1.25E-08	6.43E-10	0.00E+00	1.32E-08	3.75E-09	1.16E-10	0.00E+00	3.87E-09	1.42E-09	3.73E-11	0.00E+00	1.46E-09
4207	456789	3767675	1.266E-08	6.49E-10	0.00E+00	1.33E-08	1.27E-08	6.49E-10	0.00E+00	1.33E-08	3.79E-09	1.17E-10	0.00E+00	3.91E-09	1.44E-09	3.77E-11	0.00E+00	1.47E-09
4208	456792.5	3767666	1.277E-08	6.55E-10	0.00E+00	1.34E-08	1.28E-08	6.55E-10	0.00E+00	1.34E-08	3.83E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.80E-11	0.00E+00	1.49E-09
4209	456796.1	3767657	1.289E-08	6.61E-10	0.00E+00	1.35E-08	1.29E-08	6.61E-10	0.00E+00	1.35E-08	3.86E-09	1.19E-10	0.00E+00	3.98E-09	1.46E-09	3.83E-11	0.00E+00	1.50E-09
4210	456799.7	3767648	1.299E-08	6.66E-10	0.00E+00	1.37E-08	1.30E-08	6.66E-10	0.00E+00	1.37E-08	3.89E-09	1.20E-10	0.00E+00	4.01E-09	1.47E-09	3.86E-11	0.00E+00	1.51E-09
4211	456803.3	3767640	1.309E-08	6.71E-10	0.00E+00	1.38E-08	1.31E-08	6.71E-10	0.00E+00	1.38E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
4212	456806.9	3767631	1.318E-08	6.75E-10	0.00E+00	1.39E-08	1.32E-08	6.75E-10	0.00E+00	1.39E-08	3.95E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
4213	456810.4	3767622	1.326E-08	6.80E-10	0.00E+00	1.39E-08	1.33E-08	6.80E-10	0.00E+00	1.39E-08	3.97E-09	1.22E-10	0.00E+00	4.10E-09	1.50E-09	3.95E-11	0.00E+00	1.54E-09
4214	456814	3767613	1.335E-08	6.84E-10	0.00E+00	1.40E-08	1.34E-08	6.84E-10	0.00E+00	1.40E-08	4.00E-09	1.23E-10	0.00E+00	4.12E-09	1.51E-09	3.97E-11	0.00E+00	1.55E-09
4215	456642.2	3768035	6.365E-09	3.26E-10	0.00E+00	6.69E-09	6.37E-09	3.26E-10	0.00E+00	6.69E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.22E-10	1.89E-11	0.00E+00	7.41E-10
4216	456642.2	3768045	6.274E-09	3.22E-10	0.00E+00	6.60E-09	6.27E-09	3.22E-10	0.00E+00	6.60E-09	1.88E-09	5.78E-11	0.00E+00	1.94E-09	7.12E-10	1.87E-11	0.00E+00	7.31E-10
4217	456642.3	3768055	6.185E-09	3.17E-10	0.00E+00	6.50E-09	6.19E-09	3.17E-10	0.00E+00	6.50E-09	1.85E-09	5.70E-11	0.00E+00	1.91E-09	7.02E-10	1.84E-11	0.00E+00	7.20E-10
4218	456642.4	3768064	6.096E-09	3.13E-10	0.00E+00	6.41E-09	6.10E-09	3.13E-10	0.00E+00	6.41E-09	1.83E-09	5.62E-11	0.00E+00	1.88E-09	6.92E-10	1.81E-11	0.00E+00	7.10E-10
4219	456642.5	3768074	6.008E-09	3.08E-10	0.00E+00	6.32E-09	6.01E-09	3.08E-10	0.00E+00	6.32E-09	1.80E-09	5.54E-11	0.00E+00	1.85E-09	6.82E-10	1.79E-11	0.00E+00	6.99E-10
4220	456642.5	3768084	5.918E-09	3.03E-10	0.00E+00	6.22E-09	5.92E-09	3.03E-10	0.00E+00	6.22E-09	1.77E-09	5.46E-11	0.00E+00	1.83E-09	6.71E-10	1.76E-11	0.00E+00	6.89E-10
4221	456642.6	3768093	5.828E-09	2.99E-10	0.00E+00	6.13E-09	5.83E-09	2.99E-10	0.00E+00	6.13E-09	1.75E-09	5.37E-11	0.00E+00	1.80E-09	6.61E-10	1.73E-11	0.00E+00	6.79E-10
4222	456642.7	3768103	5.738E-09	2.94E-10	0.00E+00	6.03E-09	5.74E-09	2.94E-10	0.00E+00	6.03E-09	1.72E-09	5.29E-11	0.00E+00	1.77E-09	6.51E-10	1.71E-11	0.00E+00	6.68E-10
4223	456642.7	3768112	5.649E-09	2.90E-10	0.00E+00	5.94E-09	5.65E-09	2.90E-10	0.00E+00	5.94E-09	1.69E-09	5.21E-11	0.00E+00	1.74E-09	6.41E-10	1.68E-11	0.00E+00	6.58E-10
4224	456642.8	3768122	5.561E-09	2.85E-10	0.00E+00	5.85E-09	5.56E-09	2.85E-10	0.00E+00	5.85E-09	1.67E-09	5.13E-11	0.00E+00	1.72E-09	6.31E-10	1.65E-11	0.00E+00	6.47E-10
4225	456642.9	3768132	5.473E-09	2.81E-10	0.00E+00	5.75E-09	5.47E-09	2.81E-10	0.00E+00	5.75E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.21E-10	1.63E-11	0.00E+00	6.37E-10
4226	456643	3768141	5.387E-09	2.76E-10	0.00E+00	5.66E-09	5.39E-09	2.76E-10	0.00E+00	5.66E-09	1.61E-09	4.97E-11	0.00E+00	1.66E-09	6.11E-10	1.60E-11	0.00E+00	6.27E-10
4227	456643	3768151	5.302E-09	2.72E-10	0.00E+00	5.57E-09	5.30E-09	2.72E-10	0.00E+00	5.57E-09	1.59E-09	4.89E-11	0.00E+00	1.64E-09	6.02E-10	1.58E-11	0.00E+00	6.17E-10
4228	456643.1	3768160	5.218E-09	2.68E-10	0.00E+00	5.49E-09	5.22E-09	2.68E-10	0.00E+00	5.49E-09	1.56E-09	4.81E-11	0.00E+00	1.61E-09	5.92E-10	1.55E-11	0.00E+00	6.08E-10
4229	456643.2	3768170	5.134E-09	2.63E-10	0.00E+00	5.40E-09	5.13E-09	2.63E-10	0.00E+00	5.40E-09	1.54E-09	4.73E-11	0.00E+00	1.58E-09	5.82E-10	1.53E-11	0.00E+00	5.98E-10
4230	456643.3	3768180	5.05E-09	2.59E-10	0.00E+00	5.31E-09	5.05E-09	2.59E-10	0.00E+00	5.31E-09	1.51E-09	4.66E-11	0.00E+00	1.56E-09	5.73E-10	1.50E-11	0.00E+00	5.88E-10
4231	456643.3	3768189	4.967E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.64E-10	1.48E-11	0.00E+00	5.78E-10
4232	456643.4	3768199	4.886E-09	2.50E-10	0.00E+00	5.14E-09	4.89E-09	2.50E-10	0.00E+00	5.14E-09	1.46E-09	4.50E-11	0.00E+00	1.51E-09	5.54E-10	1.45E-11	0.00E+00	5.69E-10
4233	456643.5	3768209	4.806E-09	2.46E-10	0.00E+00	5.05E-09	4.81E-09	2.46E-10	0.00E+00	5.05E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.45E-10	1.43E-11	0.00E+00	5.60E-10
4234	456643.6	3768218	4.728E-09	2.42E-10	0.00E+00	4.97E-09	4.73E-09	2.42E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.36E-10	1.41E-11	0.00E+00	5.50E-10
4235	456643.6	3768228	4.65E-09	2.38E-10	0.00E+00	4.89E-09	4.65E-09	2.38E-10	0.00E+00	4.89E-09	1.39E-09	4.29E-11	0.00E+00	1.44E-09	5.28E-10	1.38E-11	0.00E+00	5.41E-10
4236	456643.7	3768237	4.573E-09	2.34E-10	0.00E+00	4.81E-09	4.57E-09	2.34E-10	0.00E+00	4.81E-09	1.37E-09	4.22E-11	0.00E+00	1.41E-09	5.19E-10	1.36E-11	0.00E+00	5.32E-10
4237	456605.8	3768027	5.949E-09	3.05E-10	0.00E+00	6.25E-09	5.95E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.84E-09	6.75E-10	1.77E-11	0.00E+00	6.93E-10
4238	456609.3	3768018	6.071E-09	3.11E-10	0.00E+00	6.38E-09	6.07E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.60E-11	0.00E+00	1.87E-09	6.89E-10	1.81E-11	0.00E+00	7.07E-10
4239	456612.9	3768009	6.194E-09	3.18E-10	0.00E+00	6.51E-09	6.19E-09	3.18E-10	0.00E+00	6.51E-09	1.86E-09	5.71E-11	0.00E+00	1.91E-09	7.03E-10	1.84E-11	0.00E+00	7.21E-10
4240	456616.5	3768000	6.32E-09	3.24E-10	0.00E+00	6.64E-09	6.32E-09	3.24E-10	0.00E+00	6.64E-09	1.89E-09	5.83E-11	0.00E+00	1.95E-09	7.17E-10	1.88E-11	0.00E+00	7.36E-10
4241	456620.1	3767992	6.448E-09	3.31E-10	0.00E+00	6.78E-09	6.45E-09	3.31E-10	0.00E+00	6.78E-09	1.93E-09	5.94E-11	0.00E+00	1.99E-09	7.31E-10	1.92E-11	0.00E+00	7.51E-10
4242	456623.7	3767983	6.578E-09	3.37E-10	0.00E+00	6.92E-09	6.58E-09	3.37E-10	0.00E+00	6.92E-09	1.97E-09	6.06E-11	0.00E+00	2.03E-09	7.46E-10	1.96E-11	0.00E+00	7.66E-10
4243	456627.3	3767974	6.71E-09	3.44E-10	0.00E+00	7.05E-09	6.71E-09	3.44E-10	0.00E+00	7.05E-09	2.01E-09	6.19E-11	0.00E+00	2.07E-09	7.61E-10	2.00E-11	0.00E+00	7.81E-10
4244	456630.9	3767965	6.844E-09	3.51E-10	0.00E+00	7.19E-09	6.84E-09	3.51E-10	0.00E+00	7.19E-09	2.05E-09	6.31E-11	0.00E+00	2.11E-09	7.76E-10	2.04E-11	0.00E+00	7.97E-10
4245	456634.5	3767956	6.979E-09	3.58E-10	0.00E+00	7.34E-09	6.98E-09	3.58E-10	0.00E+00	7.34E-09	2.09E-09	6.43E-11	0.00E+00	2.15E-09	7.92E-10	2.08E-11	0.00E+00	8.13E-10
4246	456638.1	3767947	7.117E-09	3.65E-10	0.00E+00	7.48E-09	7.12E-09	3.65E-10	0.00E+00	7.48E-09	2.13E-09	6.56E-11	0.00E+00	2.20E-09	8.07E-10	2.12E-11	0.00E+00	8.29E-10
4247	456641.7	3767939	7.257E-09	3.72E-10	0.00E+00	7.63E-09	7.26E-09	3.72E-10	0.00E+00	7.63E-09	2.17E-09	6.69E-11	0.00E+00	2.24E-09	8.23E-10	2.16E-11	0.00E+00	8.45E-10
4248	456645.3	3767930	7.399E-09	3.79E-10	0.00E+00	7.78E-09	7.40E-09	3.79E-10	0.00E+00	7.78E-09	2.22E-09	6.82E-11	0.00E+00	2.28E-09	8.39E-10	2.20E-11	0.00E+00	8.61E-10
4249	456648.9	3767921	7.542E-09	3.87E-10	0.00E+00	7.93E-09	7.54E-09	3.87E-10	0.00E+00	7.93E-09	2.26E-09	6.95E-11	0.00E+00	2.33E-09	8.56E-10	2.24E-11	0.00E+00	8.78E-10
4250	456652.5	3767912	7.686E-09	3.94E-10	0.00E+00	8.08E-09	7.69E-09	3.94E-10	0.00E+00	8.08E-09	2.30E-09	7.09E-11	0.00E+00	2.37E-09	8.72E-10	2.29E-11	0.00E+00	8.95E-10
4251	456656.1	3767903	7.832E-09	4.02E-10	0.00E+00	8.23E-09	7.83E-09	4.02E-10	0.00E+00	8.23E-09	2.35E-09	7.22E-11	0.00E+00	2.42E-09	8.89E-10	2.33E-11	0.00E+00	9.12E-10
4252	456659.7	3767894	7.979E-09	4.09E-10	0.00E+00	8.39E-09	7.98E-09	4.09E-10	0.00E+00	8.39E-09	2.39E-09	7.36E-11	0.00E+00	2.46E-09	9.05E-10	2.37E-11	0.00E+00	9.29E-10
4253	456663.3	3767886	8.126E-09	4.17E-10	0.00E+00	8.54E-09	8.13E-09	4.17E-10	0.00E+00	8.54E-09	2.43E-09	7.49E-11	0.00E+00	2.51E-09	9.22E-10	2.42E-11	0.00E+00	9.46E-10

4254	456666.9	3767877	8.275E-09	4.24E-10	0.00E+00	8.70E-09	8.28E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.55E-09	9.39E-10	2.46E-11	0.00E+00	9.63E-10
4255	456670.5	3767868	8.425E-09	4.32E-10	0.00E+00	8.86E-09	8.43E-09	4.32E-10	0.00E+00	8.86E-09	2.52E-09	7.77E-11	0.00E+00	2.60E-09	9.56E-10	2.51E-11	0.00E+00	9.81E-10
4256	456674.1	3767859	8.573E-09	4.39E-10	0.00E+00	9.01E-09	8.57E-09	4.39E-10	0.00E+00	9.01E-09	2.57E-09	7.90E-11	0.00E+00	2.65E-09	9.73E-10	2.55E-11	0.00E+00	9.98E-10
4257	456677.7	3767850	8.721E-09	4.47E-10	0.00E+00	9.17E-09	8.72E-09	4.47E-10	0.00E+00	9.17E-09	2.61E-09	8.04E-11	0.00E+00	2.69E-09	9.89E-10	2.60E-11	0.00E+00	1.02E-09
4258	456681.2	3767841	8.87E-09	4.55E-10	0.00E+00	9.32E-09	8.87E-09	4.55E-10	0.00E+00	9.32E-09	2.66E-09	8.18E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
4259	456684.8	3767833	9.02E-09	4.62E-10	0.00E+00	9.48E-09	9.02E-09	4.62E-10	0.00E+00	9.48E-09	2.70E-09	8.31E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
4260	456688.4	3767824	9.169E-09	4.70E-10	0.00E+00	9.64E-09	9.17E-09	4.70E-10	0.00E+00	9.64E-09	2.75E-09	8.45E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
4261	456692	3767815	9.317E-09	4.78E-10	0.00E+00	9.79E-09	9.32E-09	4.78E-10	0.00E+00	9.79E-09	2.79E-09	8.59E-11	0.00E+00	2.88E-09	1.06E-09	2.77E-11	0.00E+00	1.08E-09
4262	456695.6	3767806	9.463E-09	4.85E-10	0.00E+00	9.95E-09	9.46E-09	4.85E-10	0.00E+00	9.95E-09	2.83E-09	8.72E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
4263	456699.2	3767797	9.612E-09	4.93E-10	0.00E+00	1.01E-08	9.61E-09	4.93E-10	0.00E+00	1.01E-08	2.88E-09	8.86E-11	0.00E+00	2.97E-09	1.09E-09	2.86E-11	0.00E+00	1.12E-09
4264	456702.8	3767788	9.76E-09	5.00E-10	0.00E+00	1.03E-08	9.76E-09	5.00E-10	0.00E+00	1.03E-08	2.92E-09	9.00E-11	0.00E+00	3.01E-09	1.11E-09	2.90E-11	0.00E+00	1.14E-09
4265	456706.4	3767780	9.906E-09	5.08E-10	0.00E+00	1.04E-08	9.91E-09	5.08E-10	0.00E+00	1.04E-08	2.97E-09	9.13E-11	0.00E+00	3.06E-09	1.12E-09	2.95E-11	0.00E+00	1.15E-09
4266	456710	3767771	1.005E-08	5.15E-10	0.00E+00	1.06E-08	1.01E-08	5.15E-10	0.00E+00	1.06E-08	3.01E-09	9.26E-11	0.00E+00	3.10E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
4267	456713.6	3767762	1.019E-08	5.23E-10	0.00E+00	1.07E-08	1.02E-08	5.23E-10	0.00E+00	1.07E-08	3.05E-09	9.40E-11	0.00E+00	3.15E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
4268	456717.2	3767753	1.034E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.10E-09	9.53E-11	0.00E+00	3.19E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
4269	456720.8	3767744	1.048E-08	5.37E-10	0.00E+00	1.10E-08	1.05E-08	5.37E-10	0.00E+00	1.10E-08	3.14E-09	9.66E-11	0.00E+00	3.23E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
4270	456724.4	3767735	1.061E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.78E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
4271	456728	3767727	1.075E-08	5.51E-10	0.00E+00	1.13E-08	1.07E-08	5.51E-10	0.00E+00	1.13E-08	3.22E-09	9.91E-11	0.00E+00	3.32E-09	1.22E-09	3.20E-11	0.00E+00	1.25E-09
4272	456731.6	3767718	1.088E-08	5.58E-10	0.00E+00	1.14E-08	1.09E-08	5.58E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.23E-09	3.24E-11	0.00E+00	1.27E-09
4273	456735.2	3767709	1.101E-08	5.65E-10	0.00E+00	1.16E-08	1.10E-08	5.65E-10	0.00E+00	1.16E-08	3.30E-09	1.02E-10	0.00E+00	3.40E-09	1.25E-09	3.28E-11	0.00E+00	1.28E-09
4274	456738.8	3767700	1.114E-08	5.71E-10	0.00E+00	1.17E-08	1.11E-08	5.71E-10	0.00E+00	1.17E-08	3.34E-09	1.03E-10	0.00E+00	3.44E-09	1.26E-09	3.31E-11	0.00E+00	1.30E-09
4275	456742.4	3767691	1.126E-08	5.77E-10	0.00E+00	1.18E-08	1.13E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.48E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
4276	456746	3767682	1.138E-08	5.84E-10	0.00E+00	1.20E-08	1.14E-08	5.84E-10	0.00E+00	1.20E-08	3.41E-09	1.05E-10	0.00E+00	3.51E-09	1.29E-09	3.39E-11	0.00E+00	1.33E-09
4277	456749.6	3767674	1.15E-08	5.89E-10	0.00E+00	1.21E-08	1.15E-08	5.89E-10	0.00E+00	1.21E-08	3.44E-09	1.06E-10	0.00E+00	3.55E-09	1.30E-09	3.42E-11	0.00E+00	1.34E-09
4278	456753.2	3767665	1.16E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.48E-09	1.07E-10	0.00E+00	3.58E-09	1.32E-09	3.45E-11	0.00E+00	1.35E-09
4279	456756.7	3767656	1.171E-08	6.00E-10	0.00E+00	1.23E-08	1.17E-08	6.00E-10	0.00E+00	1.23E-08	3.51E-09	1.08E-10	0.00E+00	3.62E-09	1.33E-09	3.48E-11	0.00E+00	1.36E-09
4280	456760.3	3767647	1.182E-08	6.06E-10	0.00E+00	1.24E-08	1.18E-08	6.06E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
4281	456763.9	3767638	1.192E-08	6.11E-10	0.00E+00	1.25E-08	1.19E-08	6.11E-10	0.00E+00	1.25E-08	3.57E-09	1.10E-10	0.00E+00	3.68E-09	1.35E-09	3.55E-11	0.00E+00	1.39E-09
4282	456767.5	3767629	1.202E-08	6.16E-10	0.00E+00	1.26E-08	1.20E-08	6.16E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.58E-11	0.00E+00	1.40E-09
4283	456771.1	3767621	1.211E-08	6.21E-10	0.00E+00	1.27E-08	1.21E-08	6.21E-10	0.00E+00	1.27E-08	3.63E-09	1.12E-10	0.00E+00	3.74E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
4284	456602.2	3768036	5.829E-09	2.99E-10	0.00E+00	6.13E-09	5.83E-09	2.99E-10	0.00E+00	6.13E-09	1.75E-09	5.37E-11	0.00E+00	1.80E-09	6.61E-10	1.73E-11	0.00E+00	6.79E-10
4285	456602.2	3768045	5.749E-09	2.95E-10	0.00E+00	6.04E-09	5.75E-09	2.95E-10	0.00E+00	6.04E-09	1.72E-09	5.30E-11	0.00E+00	1.77E-09	6.52E-10	1.71E-11	0.00E+00	6.69E-10
4286	456602.3	3768055	5.669E-09	2.91E-10	0.00E+00	5.96E-09	5.67E-09	2.91E-10	0.00E+00	5.96E-09	1.70E-09	5.23E-11	0.00E+00	1.75E-09	6.43E-10	1.69E-11	0.00E+00	6.60E-10
4287	456602.4	3768065	5.589E-09	2.87E-10	0.00E+00	5.88E-09	5.59E-09	2.87E-10	0.00E+00	5.88E-09	1.67E-09	5.15E-11	0.00E+00	1.73E-09	6.34E-10	1.66E-11	0.00E+00	6.51E-10
4288	456602.5	3768074	5.509E-09	2.82E-10	0.00E+00	5.79E-09	5.51E-09	2.82E-10	0.00E+00	5.79E-09	1.65E-09	5.08E-11	0.00E+00	1.70E-09	6.25E-10	1.64E-11	0.00E+00	6.41E-10
4289	456602.5	3768084	5.431E-09	2.78E-10	0.00E+00	5.71E-09	5.43E-09	2.78E-10	0.00E+00	5.71E-09	1.63E-09	5.01E-11	0.00E+00	1.68E-09	6.16E-10	1.62E-11	0.00E+00	6.32E-10
4290	456602.6	3768093	5.353E-09	2.74E-10	0.00E+00	5.63E-09	5.35E-09	2.74E-10	0.00E+00	5.63E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.07E-10	1.59E-11	0.00E+00	6.23E-10
4291	456602.7	3768103	5.276E-09	2.70E-10	0.00E+00	5.55E-09	5.28E-09	2.70E-10	0.00E+00	5.55E-09	1.58E-09	4.86E-11	0.00E+00	1.63E-09	5.99E-10	1.57E-11	0.00E+00	6.14E-10
4292	456602.7	3768113	5.198E-09	2.66E-10	0.00E+00	5.46E-09	5.20E-09	2.66E-10	0.00E+00	5.46E-09	1.56E-09	4.79E-11	0.00E+00	1.60E-09	5.90E-10	1.55E-11	0.00E+00	6.05E-10
4293	456602.8	3768122	5.121E-09	2.63E-10	0.00E+00	5.38E-09	5.12E-09	2.63E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.96E-10
4294	456602.9	3768132	5.044E-09	2.59E-10	0.00E+00	5.30E-09	5.04E-09	2.59E-10	0.00E+00	5.30E-09	1.51E-09	4.65E-11	0.00E+00	1.56E-09	5.72E-10	1.50E-11	0.00E+00	5.87E-10
4295	456603	3768142	4.968E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.64E-10	1.48E-11	0.00E+00	5.78E-10
4296	456603	3768151	4.892E-09	2.51E-10	0.00E+00	5.14E-09	4.89E-09	2.51E-10	0.00E+00	5.14E-09	1.47E-09	4.51E-11	0.00E+00	1.51E-09	5.55E-10	1.46E-11	0.00E+00	5.70E-10
4297	456603.1	3768161	4.816E-09	2.47E-10	0.00E+00	5.06E-09	4.82E-09	2.47E-10	0.00E+00	5.06E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.46E-10	1.43E-11	0.00E+00	5.61E-10
4298	456603.2	3768170	4.742E-09	2.43E-10	0.00E+00	4.99E-09	4.74E-09	2.43E-10	0.00E+00	4.99E-09	1.42E-09	4.37E-11	0.00E+00	1.46E-09	5.38E-10	1.41E-11	0.00E+00	5.52E-10
4299	456603.3	3768180	4.67E-09	2.39E-10	0.00E+00	4.91E-09	4.67E-09	2.39E-10	0.00E+00	4.91E-09	1.40E-09	4.30E-11	0.00E+00	1.44E-09	5.30E-10	1.39E-11	0.00E+00	5.44E-10
4300	456603.3	3768190	4.599E-09	2.36E-10	0.00E+00	4.83E-09	4.60E-09	2.36E-10	0.00E+00	4.83E-09	1.38E-09	4.24E-11	0.00E+00	1.42E-09	5.22E-10	1.37E-11	0.00E+00	5.35E-10
4301	456603.4	3768199	4.528E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.17E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.27E-10
4302	456603.5	3768209	4.457E-09	2.29E-10	0.00E+00	4.69E-09	4.46E-09	2.29E-10	0.00E+00	4.69E-09	1.34E-09	4.11E-11	0.00E+00	1.38E-09	5.06E-10	1.33E-11	0.00E+00	5.19E-10
4303	456603.6	3768218	4.388E-09	2.25E-10	0.00E+00	4.61E-09	4.39E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.04E-11	0.00E+00	1.35E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
4304	456603.6	3768228	4.319E-09	2.21E-10	0.00E+00	4.54E-09	4.32E-09	2.21E-10	0.00E+00	4.54E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.90E-10	1.29E-11	0.00E+00	5.03E-10
4305	456603.7	3768238	4.251E-09	2.18E-10	0.00E+00	4.47E-09	4.25E-09	2.18E-10	0.00E+00	4.47E-09	1.27E-09	3.92E-11	0.00E+00	1.31E-09	4.82E-10	1.26E-11	0.00E+00	4.95E-10
4306	456565.8	3768027	5.465E-09	2.80E-10	0.00E+00	5.75E-09	5.47E-09	2.80E-10	0.00E+00	5.75E-09	1.64E-09	5.04E-11	0.00E+00	1.69E-09	6.20E-10	1.63E-11	0.00E+00	6.36E-10
4307	456569.4	3768018	5.574E-09	2.86E-10	0.00E+00	5.86E-09	5.57E-09	2.86E-10	0.00E+00	5.86E-09	1.67E-09	5.14E-11	0.00E+00	1.72E-09	6.32E-10	1.66E-11	0.00E+00	6.49E-10
4308	456573	3768009	5.684E-09	2.91E-10	0.00E+00	5.98E-09	5.68E-09	2.91E-10	0.00E+00	5.98E-09	1.70E-09	5.24E-11	0.00E+00	1.75E-09	6.45E-10	1.69E-11	0.00E+00	6.62E-10
4309	456576.6	3768001	5.795E-09	2.97E-10	0.00E+00	6.09E-09	5.79E-09	2.97E-10	0.00E+00	6.09E-09	1.74E-09	5.34E-11	0.00E+00	1.79E-09	6.57E-10	1.72E-11	0.00E+00	6.75E-10
4310	456580.2	3767992	5.907E-09	3.03E-10	0.00E+00	6.21E-09	5.91E-09	3.03E-10	0.00E+00	6.21E-09	1.77E-09	5.44E-11	0.00E+00	1.82E-09	6.70E-10	1.76E-11	0.00E+00	6.88E-10
4311	456583.8	3767983	6.021E-09	3.09E-10	0.00E+00	6.33E-09	6.02E-09	3.09E-10	0.00E+00	6.33E-09	1.80E-09	5.55E-11	0.00E+00	1.86E-09	6.83E-10	1.79E-11	0.00E+00	7.01E-10
4312	456587.4	3767974	6.139E-09	3.15E-10	0.00E+00	6.45E-09	6.14E-09	3.15E-10	0.00E+00	6.45E-09	1.84E-09	5.66E-11	0.00E+00	1.90E-09	6.96E-10	1.83E-11	0.00E+00	7.15E-10
4313	456591	3767965	6.258E-09	3.21E-10	0.00E+00	6.58E-09	6.26E-09	3.21E-10	0.00E+00	6.58E-09	1.87E-09	5.77E-11	0.00E+00	1.93E-09	7.10E-10	1.86E-11	0.00E+00	7.29E-10
4314	456594.6	3767956	6.379E-09	3.27E-10	0.00E+00	6.71E-09	6.38E-09	3.27E-10	0.00E+00	6.71E-09	1.91E-09	5.88E-11	0.00E+00	1.97E-09	7.24E-10	1.90E-11	0.00E+00	7.43E-10
4315	456598.2	3767947	6.501E-09	3.33E-10	0.00E+00	6.83E-09	6.50E-09	3.33E-10	0.00E+00	6.83E-09	1.95E-09	5.99E-11	0.00E+00	2.01E-09	7.38E-10	1.93E-11	0.00E+00	7.57E-10
4316	456601.8	3767939	6.625E-09	3.40E-10	0.00E+00	6.96E-09	6.62E-09	3.40E-10	0.00E+00	6.96E-09	1.98E-09	6.11E-11	0.00E+00	2.05E-09	7.52E-10	1.97E-11	0.00E+00	7.71E-10
4317	456605.5	3767930	6.75E-09	3.46E-10	0.00E+00	7.10E-09	6.75E-09	3.46E-10	0.00E+00	7.10E-09	2.02E-09	6.22E-11	0.00E+00	2.08E-09	7.66E-10	2.01E-11	0.00E+00	7.86E-10
4318	456609.1	3767921	6.876E-09	3.52E-10	0.00E+00	7.23E-09	6.88E-09	3.52E-10	0.00E+00	7.23E-09	2.06E-09	6.34E-11	0.00E+00	2.12E-09	7.80E-10	2.05E-11	0.00E+00	8.01E-10
4319	456612.7	3767912	7.002E-09	3.59E-10	0.00E+00	7.36E-09	7.00E-09	3.59E-10	0.00E+00	7.36E-09	2.10E-09	6.45E-11	0.00E+00	2.16E-09	7.94E-10	2.08E-11	0.00E+00	8.15E-10
4320	456616.3	3767903	7.129E-09	3.66E-10	0.00E+00	7.49E-09	7.13E-09	3.66E-10	0.00E+00	7.49E-09	2.14E-09	6.57E-11	0.00E+00	2.20E-09	8.09E-10	2.12E-11	0.00E+00	8.30E-10
4321	456619.9	3767894	7.259E-09	3.72E-10	0.00E+00	7.63E-09	7.26E-09	3.72E-10	0.00E+00	7.63E-09	2.17E-09	6.69E-11	0.00E+00	2.24E-09	8.24E-10	2.16E-11	0.00E+00	8.45E-10
4322	456623.5	3767885	7.39E-09	3.79E-10	0.00E+00	7.77E-09	7.39E-09	3.79E-10	0.00E+00	7.77E-09	2.21E-09	6.81E-11	0.00E+00	2.28E-09	8.38E-10	2.20E-11	0.00E+00	8.60E-10
4323	456627.1	3767876	7.522E-09	3.86E-10	0.00E+00	7.91E-09	7.52E-09	3.86E-10	0.00E+00	7.91E-09	2.25E-09	6.93E-11	0.00E+00	2.32E-09	8.53E-10	2.24E-11	0.00E+00	8.76E-10
4324	456630.7	3767868	7.653E-09	3.92E-10	0.00E+00	8.05E-09	7.65E-09	3.92E-10	0.00E+00	8.05E-09	2.29E-09	7.05E-11	0.00E+00	2.36E-09	8.68E-10	2.28E-11	0.00E+00	8.91E-10
4325	456634.3	3767859	7.786E-09	3.99E-10	0.00E+00	8.19E-09	7.79E-09	3.99E-10	0.00E+00	8.19E-09	2.33E-09	7.18E-11	0.00E+00	2.40E-09	8.83E-10	2.32E-11	0.00E+00	9.07E-10
4326	456637.9	3767850	7.92E-09	4.06E-10	0.00E+00	8.33E-09	7.92E-09	4.06E-10	0.00E+00	8.33E-09	2.37E-09	7.30E-11	0.00E+00	2.45E-09	8.99E-10	2.36E-11	0.00E+00	9.22E-10
4327	456641.5	3767841	8.055E-09	4.13E-10	0.00E+00	8.47E-09	8.06E-09	4.13E-10	0.00E+00	8.47E-09	2.41E-09	7.43E-11	0.00E+00	2.49E-09	9.14E-10	2.40E-11	0.00E+00	9.38E-10
4328	456645.1	3767832	8.19E-09	4.20E-10	0.00E+00	8.61E-09	8.19E-09	4.20E-10	0.00E+00	8.61E-09	2.45E-09	7.55E-11	0.00E+00	2.53E-09	9.29E-10	2.44E-11	0.00E+00	9.54E-10
4329	456648.8	3767823	8.325E-09	4.27E-10	0.00E+00	8.75E-09	8.32E-09	4.27E-10	0.00E+00	8.75E-09	2.49E-09	7.67E-11	0.00E+00	2.57E-09	9.44E-10	2.48E-11	0.00E+00	9.69E-10
4330	456652.4	3767814	8.46E-09	4.34E-10	0.00E+00	8.89E-09	8.46E-09	4.34E-10	0.00E+00	8.89E-09	2.53E-09	7.80E-11	0.00E+00	2.61E-09	9.60E-10	2.52E-11	0.00E+00	9.85E-10
4331	456656	3767806	8.595E-09	4.41E-10	0.00E+00	9.04E-09	8.59E-09	4.41E-10	0.00E+00	9.04E-09	2.57E-09	7.92E-11	0.00E+00	2.65E-09	9.75E-10	2.56E-11	0.00E+00	1.00E-09
4332	456659.6	3767797	8.728E-09	4.47E-10	0.00E+00	9.18E-09	8.73E-09	4.47E-10	0.00E+00	9.18E-09	2.61E-09	8.05E-11	0.00E+00	2.69E-09	9.90E-10	2.60E-11	0.00E+00	1.02E-09
4333	456663.2	3767788	8.861E-09	4.54E-10	0.00E+00	9.32E-09	8.86E-09	4.54E-10	0.00E+00	9.32E-09	2.65E-09	8.17E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
4334	456666.8	3767779	8.995E-09	4.61E-10	0.00E+00	9.46E-09	9.00E-09	4.61E-10	0.00E+00	9.46E-09	2.69E-09	8.29E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
4335	456670.4	3767770	9.126E-09	4.68E-10	0.00E+00	9.59E-09	9.13E-09	4.68E-10	0.00E+00	9.59E-09	2.73E-09	8.41E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
4336	456674	3767761	9.254E-09	4.74E-10	0.00E+00	9.73E-09	9.25E-09	4.74E-10	0.00E+00	9.73E-09	2.77E-09	8.53E-11	0.00E+00	2.86E-09	1.05E-09	2.75E-11	0.00E+00	1.08E-09
4337	456677.6	3767752	9.383E-09	4.81E-10	0.00E+00	9.86E-09	9.38E-09	4.81E-10	0.00E+00	9.86E-09	2.81E-09	8.65E-11	0.00E+00	2.90E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
4338	456681.2	3767743	9.511E-09	4.88E-10	0.00E+00	1.00E-08	9.51E-09	4.88E-10	0.00E+00	1.00E-08	2.85E-09	8.77E-11	0.00E+00	2.94E-09	1.08E-09	2.83E-11	0.00E+00	1.11E-09
4339	456684.8	3767735	9.64E-09	4.94E-10	0.00E+00	1.01E-08	9.64E-09	4.94E-10	0.00E+00	1.01E-08	2.89E-09	8.89E-11	0.00E+00	2.98E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
4340	456688.4	3767726	9.767E-09	5.01E-10	0.00E+00	1.03E-08	9.77E-09	5.01E-10	0.00E+00	1.03E-08	2.93E-09	9.00E-11	0.00E+00	3.02E-09	1.11E-09	2.91E-11	0.00E+00	1.14E-09
4341	456692.1	3767717	9.893E-09	5.07E-10	0.00E+00	1.04E-08	9.89E-09	5.07E-10	0.00E+00	1.04E-08	2.96E-09	9.12E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
4342	456695.7	3767708	1.001E-08	5.13E-10	0.00E+00	1.05E-08	1.00E-08	5.13E-10	0.00E+00	1.05E-08	3.00E-09	9.23E-11	0.00E+00	3.09E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
4343	456699.3	3767699	1.013E-08	5.19E-10	0.00E+00	1.06E-08	1.01E-08	5.19E-10	0.00E+00	1.06E-08	3.03E-09	9.34E-11	0.00E+00	3.13E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
4344	456702.9	3767690	1.024E-08	5.25E-10	0.00E+00	1.08E-08	1.02E-08	5.25E-10	0.00E+00	1.08E-08	3.07E-09	9.44E-11	0.00E+00	3.16E-09	1.16E-09	3.05E-11	0.00E+00	1.19E-09
4345	456706.5	3767681	1.036E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.55E-11	0.00E+00	3.20E-09	1.18E-09	3.08E-11	0.00E+00	1.21E-09
4346	456710.1	3767673	1.047E-08	5.37E-10	0.00E+00	1.10E-08	1.05E-08	5.37E-10	0.00E+00	1.10E-08	3.14E-09	9.65E-11	0.00E+00	3.23E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
4347	456713.7	3767664	1.058E-08	5.42E-10	0.00E+00	1.11E-08	1.06E-08	5.42E-10	0.00E+00	1.11E-08	3.17E-09	9.75E-11	0.00E+00	3.27E-09	1.20E-09	3.15E-11	0.00E+00	1.23E-09
4348	456717.3	3767655	1.068E-08	5.48E-10	0.00E+00	1.12E-08	1.07E-08	5.48E-10	0.00E+00	1.12E-08	3.20E-09	9.85E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.24E-09
4349	456720.9	3767646	1.079E-08	5.53E-10	0.00E+00	1.13E-08	1.08E-08	5.53E-10	0.00E+00	1.13E-08	3.23E-09	9.94E-11	0.00E+00	3.33E-09	1.22E-09	3.21E-11	0.00E+00	1.26E-09
4350	456724.5	3767637	1.089E-08	5.58E-10	0.00E+00	1.14E-08	1.09E-08	5.58E-10	0.00E+00	1.14E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.24E-09	3.24E-11	0.00E+00	1.27E-09
4351	456728.1	3767628	1.099E-08	5.63E-10	0.00E+00	1.15E-08	1.10E-08	5.63E-10	0.00E+00	1.15E-08	3.29E-09	1.01E-10	0.00E+00	3.39E-09	1.25E-09	3.27E-11	0.00E+00	1.28E-09
4352	456731.7	3767619	1.108E-08	5.68E-10	0.00E+00	1.16E-08	1.11E-08	5.68E-10	0.00E+00	1.16E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
4353	456562.2	3768036	5.358E-09	2.75E-10	0.00E+00	5.63E-09	5.36E-09	2.75E-10	0.00E+00	5.63E-09	1.60E-09	4.94E-11	0.00E+00	1.65E-09	6.08E-10	1.59E-11	0.00E+00	6.24E-10
4354	456562.2	3768046	5.288E-09	2.71E-10	0.00E+00	5.56E-09	5.29E-09	2.71E-10	0.00E+00	5.56E-09	1.58E-09	4.87E-11	0.00E+00	1.63E-09	6.00E-10	1.57E-11	0.00E+00	6.16E-10
4355	456562.3	3768055	5.217E-09	2.67E-10	0.00E+00	5.48E-09	5.22E-09	2.67E-10	0.00E+00	5.48E-09	1.56E-09	4.81E-11	0.00E+00	1.61E-09	5.92E-10	1.55E-11	0.00E+00	6.07E-10
4356	456562.4	3768065	5.146E-09	2.64E-10	0.00E+00	5.41E-09	5.15E-09	2.64E-10	0.00E+00	5.41E-09	1.54E-09	4.74E-11	0.00E+00	1.59E-09	5.84E-10	1.53E-11	0.00E+00	5.99E-10
4357	456562.5	3768074	5.076E-09	2.60E-10	0.00E+00	5.34E-09	5.08E-09	2.60E-10	0.00E+00	5.34E-09	1.52E-09	4.68E-11	0.00E+00	1.57E-09	5.76E-10	1.51E-11	0.00E+00	5.91E-10
4358	456562.5	3768084	5.007E-09	2.57E-10	0.00E+00	5.26E-09	5.01E-09	2.57E-10	0.00E+00	5.26E-09	1.50E-09	4.62E-11	0.00E+00	1.55E-09	5.68E-10	1.49E-11	0.00E+00	5.83E-10
4359	456562.6	3768094	4.938E-09	2.53E-10	0.00E+00	5.19E-09	4.94E-09	2.53E-10	0.00E+00	5.19E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.75E-10
4360	456562.7	3768103	4.869E-09	2.50E-10	0.00E+00	5.12E-09	4.87E-09	2.50E-10	0.00E+00	5.12E-09	1.46E-09	4.49E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.67E-10
4361	456562.7	3768113	4.801E-09	2.46E-10	0.00E+00	5.05E-09	4.80E-09	2.46E-10	0.00E+00	5.05E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.45E-10	1.43E-11	0.00E+00	5.59E-10
4362	456562.8	3768123	4.733E-09	2.43E-10	0.00E+00	4.98E-09	4.73E-09	2.43E-10	0.00E+00	4.98E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.37E-10	1.41E-11	0.00E+00	5.51E-10
4363	456562.9	3768132	4.665E-09	2.39E-10	0.00E+00	4.90E-09	4.67E-09	2.39E-10	0.00E+00	4.90E-09	1.40E-09	4.30E-11	0.00E+00	1.44E-09	5.29E-10	1.39E-11	0.00E+00	5.43E-10
4364	456563	3768142	4.598E-09	2.36E-10	0.00E+00	4.83E-09	4.60E-09	2.36E-10	0.00E+00	4.83E-09	1.38E-09	4.24E-11	0.00E+00	1.42E-09	5.22E-10	1.37E-11	0.00E+00	5.35E-10
4365	456563	3768151	4.532E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.18E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.28E-10

4366	456563.1	3768161	4.466E-09	2.29E-10	0.00E+00	4.69E-09	4.47E-09	2.29E-10	0.00E+00	4.69E-09	1.34E-09	4.12E-11	0.00E+00	1.38E-09	5.07E-10	1.33E-11	0.00E+00	5.20E-10
4367	456563.2	3768171	4.401E-09	2.26E-10	0.00E+00	4.63E-09	4.40E-09	2.26E-10	0.00E+00	4.63E-09	1.32E-09	4.06E-11	0.00E+00	1.36E-09	4.99E-10	1.31E-11	0.00E+00	5.12E-10
4368	456563.3	3768180	4.337E-09	2.22E-10	0.00E+00	4.56E-09	4.34E-09	2.22E-10	0.00E+00	4.56E-09	1.30E-09	4.00E-11	0.00E+00	1.34E-09	4.92E-10	1.29E-11	0.00E+00	5.05E-10
4369	456563.3	3768190	4.273E-09	2.19E-10	0.00E+00	4.49E-09	4.27E-09	2.19E-10	0.00E+00	4.49E-09	1.28E-09	3.94E-11	0.00E+00	1.32E-09	4.85E-10	1.27E-11	0.00E+00	4.98E-10
4370	456563.4	3768200	4.21E-09	2.16E-10	0.00E+00	4.43E-09	4.21E-09	2.16E-10	0.00E+00	4.43E-09	1.26E-09	3.88E-11	0.00E+00	1.30E-09	4.78E-10	1.25E-11	0.00E+00	4.90E-10
4371	456563.5	3768209	4.148E-09	2.13E-10	0.00E+00	4.36E-09	4.15E-09	2.13E-10	0.00E+00	4.36E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.71E-10	1.23E-11	0.00E+00	4.83E-10
4372	456563.6	3768219	4.086E-09	2.10E-10	0.00E+00	4.30E-09	4.09E-09	2.10E-10	0.00E+00	4.30E-09	1.22E-09	3.77E-11	0.00E+00	1.26E-09	4.64E-10	1.22E-11	0.00E+00	4.76E-10
4373	456563.6	3768228	4.026E-09	2.06E-10	0.00E+00	4.23E-09	4.03E-09	2.06E-10	0.00E+00	4.23E-09	1.21E-09	3.71E-11	0.00E+00	1.24E-09	4.57E-10	1.20E-11	0.00E+00	4.69E-10
4374	456563.7	3768238	3.965E-09	2.03E-10	0.00E+00	4.17E-09	3.96E-09	2.03E-10	0.00E+00	4.17E-09	1.19E-09	3.65E-11	0.00E+00	1.22E-09	4.50E-10	1.18E-11	0.00E+00	4.62E-10
4375	456525.8	3768027	5.042E-09	2.58E-10	0.00E+00	5.30E-09	5.04E-09	2.58E-10	0.00E+00	5.30E-09	1.51E-09	4.65E-11	0.00E+00	1.56E-09	5.72E-10	1.50E-11	0.00E+00	5.87E-10
4376	456529.4	3768019	5.138E-09	2.63E-10	0.00E+00	5.40E-09	5.14E-09	2.63E-10	0.00E+00	5.40E-09	1.54E-09	4.74E-11	0.00E+00	1.59E-09	5.83E-10	1.53E-11	0.00E+00	5.98E-10
4377	456533	3768010	5.236E-09	2.68E-10	0.00E+00	5.50E-09	5.24E-09	2.68E-10	0.00E+00	5.50E-09	1.57E-09	4.83E-11	0.00E+00	1.62E-09	5.94E-10	1.56E-11	0.00E+00	6.10E-10
4378	456536.6	3768001	5.336E-09	2.74E-10	0.00E+00	5.61E-09	5.34E-09	2.74E-10	0.00E+00	5.61E-09	1.60E-09	4.92E-11	0.00E+00	1.65E-09	6.05E-10	1.59E-11	0.00E+00	6.21E-10
4379	456540.3	3767992	5.437E-09	2.79E-10	0.00E+00	5.72E-09	5.44E-09	2.79E-10	0.00E+00	5.72E-09	1.63E-09	5.01E-11	0.00E+00	1.68E-09	6.17E-10	1.62E-11	0.00E+00	6.33E-10
4380	456543.9	3767983	5.539E-09	2.84E-10	0.00E+00	5.82E-09	5.54E-09	2.84E-10	0.00E+00	5.82E-09	1.66E-09	5.11E-11	0.00E+00	1.71E-09	6.28E-10	1.65E-11	0.00E+00	6.45E-10
4381	456547.5	3767974	5.643E-09	2.89E-10	0.00E+00	5.93E-09	5.64E-09	2.89E-10	0.00E+00	5.93E-09	1.69E-09	5.20E-11	0.00E+00	1.74E-09	6.40E-10	1.68E-11	0.00E+00	6.57E-10
4382	456551.1	3767965	5.748E-09	2.95E-10	0.00E+00	6.04E-09	5.75E-09	2.95E-10	0.00E+00	6.04E-09	1.72E-09	5.30E-11	0.00E+00	1.77E-09	6.52E-10	1.71E-11	0.00E+00	6.69E-10
4383	456554.7	3767956	5.856E-09	3.00E-10	0.00E+00	6.16E-09	5.86E-09	3.00E-10	0.00E+00	6.16E-09	1.75E-09	5.40E-11	0.00E+00	1.81E-09	6.64E-10	1.74E-11	0.00E+00	6.82E-10
4384	456558.4	3767947	5.963E-09	3.06E-10	0.00E+00	6.27E-09	5.96E-09	3.06E-10	0.00E+00	6.27E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.77E-11	0.00E+00	6.94E-10
4385	456562	3767939	6.072E-09	3.11E-10	0.00E+00	6.38E-09	6.07E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.60E-11	0.00E+00	1.87E-09	6.89E-10	1.81E-11	0.00E+00	7.07E-10
4386	456565.6	3767930	6.183E-09	3.17E-10	0.00E+00	6.50E-09	6.18E-09	3.17E-10	0.00E+00	6.50E-09	1.85E-09	5.70E-11	0.00E+00	1.91E-09	7.02E-10	1.84E-11	0.00E+00	7.20E-10
4387	456569.2	3767921	6.296E-09	3.23E-10	0.00E+00	6.62E-09	6.30E-09	3.23E-10	0.00E+00	6.62E-09	1.89E-09	5.80E-11	0.00E+00	1.94E-09	7.14E-10	1.87E-11	0.00E+00	7.33E-10
4388	456572.8	3767912	6.409E-09	3.29E-10	0.00E+00	6.74E-09	6.41E-09	3.29E-10	0.00E+00	6.74E-09	1.92E-09	5.91E-11	0.00E+00	1.98E-09	7.27E-10	1.91E-11	0.00E+00	7.46E-10
4389	456576.5	3767903	6.522E-09	3.34E-10	0.00E+00	6.86E-09	6.52E-09	3.34E-10	0.00E+00	6.86E-09	1.95E-09	6.01E-11	0.00E+00	2.01E-09	7.40E-10	1.94E-11	0.00E+00	7.59E-10
4390	456580.1	3767894	6.637E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.97E-11	0.00E+00	7.73E-10
4391	456583.7	3767885	6.754E-09	3.46E-10	0.00E+00	7.10E-09	6.75E-09	3.46E-10	0.00E+00	7.10E-09	2.02E-09	6.23E-11	0.00E+00	2.09E-09	7.66E-10	2.01E-11	0.00E+00	7.86E-10
4392	456587.3	3767876	6.872E-09	3.52E-10	0.00E+00	7.22E-09	6.87E-09	3.52E-10	0.00E+00	7.22E-09	2.06E-09	6.34E-11	0.00E+00	2.12E-09	7.80E-10	2.05E-11	0.00E+00	8.00E-10
4393	456590.9	3767867	6.991E-09	3.58E-10	0.00E+00	7.35E-09	6.99E-09	3.58E-10	0.00E+00	7.35E-09	2.09E-09	6.44E-11	0.00E+00	2.16E-09	7.93E-10	2.08E-11	0.00E+00	8.14E-10
4394	456594.6	3767858	7.11E-09	3.64E-10	0.00E+00	7.47E-09	7.11E-09	3.64E-10	0.00E+00	7.47E-09	2.13E-09	6.55E-11	0.00E+00	2.20E-09	8.07E-10	2.12E-11	0.00E+00	8.28E-10
4395	456598.2	3767850	7.229E-09	3.71E-10	0.00E+00	7.60E-09	7.23E-09	3.71E-10	0.00E+00	7.60E-09	2.17E-09	6.66E-11	0.00E+00	2.23E-09	8.20E-10	2.15E-11	0.00E+00	8.42E-10
4396	456601.8	3767841	7.35E-09	3.77E-10	0.00E+00	7.73E-09	7.35E-09	3.77E-10	0.00E+00	7.73E-09	2.20E-09	6.78E-11	0.00E+00	2.27E-09	8.34E-10	2.19E-11	0.00E+00	8.56E-10
4397	456605.4	3767832	7.471E-09	3.83E-10	0.00E+00	7.85E-09	7.47E-09	3.83E-10	0.00E+00	7.85E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.22E-11	0.00E+00	8.70E-10
4398	456609	3767823	7.59E-09	3.89E-10	0.00E+00	7.98E-09	7.59E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	7.00E-11	0.00E+00	2.34E-09	8.61E-10	2.26E-11	0.00E+00	8.84E-10
4399	456612.7	3767814	7.71E-09	3.95E-10	0.00E+00	8.10E-09	7.71E-09	3.95E-10	0.00E+00	8.10E-09	2.31E-09	7.11E-11	0.00E+00	2.38E-09	8.75E-10	2.29E-11	0.00E+00	8.98E-10
4400	456616.3	3767805	7.83E-09	4.01E-10	0.00E+00	8.23E-09	7.83E-09	4.01E-10	0.00E+00	8.23E-09	2.35E-09	7.22E-11	0.00E+00	2.42E-09	8.88E-10	2.33E-11	0.00E+00	9.12E-10
4401	456619.9	3767796	7.952E-09	4.08E-10	0.00E+00	8.36E-09	7.95E-09	4.08E-10	0.00E+00	8.36E-09	2.38E-09	7.33E-11	0.00E+00	2.45E-09	9.02E-10	2.37E-11	0.00E+00	9.26E-10
4402	456623.5	3767787	8.072E-09	4.14E-10	0.00E+00	8.49E-09	8.07E-09	4.14E-10	0.00E+00	8.49E-09	2.42E-09	7.44E-11	0.00E+00	2.49E-09	9.16E-10	2.40E-11	0.00E+00	9.40E-10
4403	456627.1	3767778	8.192E-09	4.20E-10	0.00E+00	8.61E-09	8.19E-09	4.20E-10	0.00E+00	8.61E-09	2.45E-09	7.55E-11	0.00E+00	2.53E-09	9.29E-10	2.44E-11	0.00E+00	9.54E-10
4404	456630.8	3767770	8.312E-09	4.26E-10	0.00E+00	8.74E-09	8.31E-09	4.26E-10	0.00E+00	8.74E-09	2.49E-09	7.66E-11	0.00E+00	2.57E-09	9.43E-10	2.47E-11	0.00E+00	9.68E-10
4405	456634.4	3767761	8.432E-09	4.32E-10	0.00E+00	8.86E-09	8.43E-09	4.32E-10	0.00E+00	8.86E-09	2.53E-09	7.77E-11	0.00E+00	2.60E-09	9.57E-10	2.51E-11	0.00E+00	9.82E-10
4406	456638	3767752	8.551E-09	4.38E-10	0.00E+00	8.99E-09	8.55E-09	4.38E-10	0.00E+00	8.99E-09	2.56E-09	7.88E-11	0.00E+00	2.64E-09	9.70E-10	2.54E-11	0.00E+00	9.96E-10
4407	456641.6	3767743	8.669E-09	4.44E-10	0.00E+00	9.11E-09	8.67E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.84E-10	2.58E-11	0.00E+00	1.01E-09
4408	456645.2	3767734	8.786E-09	4.50E-10	0.00E+00	9.24E-09	8.79E-09	4.50E-10	0.00E+00	9.24E-09	2.63E-09	8.10E-11	0.00E+00	2.71E-09	9.97E-10	2.61E-11	0.00E+00	1.02E-09
4409	456648.9	3767725	8.903E-09	4.56E-10	0.00E+00	9.36E-09	8.90E-09	4.56E-10	0.00E+00	9.36E-09	2.67E-09	8.21E-11	0.00E+00	2.75E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
4410	456652.5	3767716	9.017E-09	4.62E-10	0.00E+00	9.48E-09	9.02E-09	4.62E-10	0.00E+00	9.48E-09	2.70E-09	8.31E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
4411	456656.1	3767707	9.13E-09	4.68E-10	0.00E+00	9.60E-09	9.13E-09	4.68E-10	0.00E+00	9.60E-09	2.73E-09	8.42E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
4412	456659.7	3767698	9.242E-09	4.74E-10	0.00E+00	9.72E-09	9.24E-09	4.74E-10	0.00E+00	9.72E-09	2.77E-09	8.52E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.08E-09
4413	456663.3	3767689	9.352E-09	4.79E-10	0.00E+00	9.83E-09	9.35E-09	4.79E-10	0.00E+00	9.83E-09	2.80E-09	8.62E-11	0.00E+00	2.89E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09
4414	456667	3767681	9.46E-09	4.85E-10	0.00E+00	9.94E-09	9.46E-09	4.85E-10	0.00E+00	9.94E-09	2.83E-09	8.72E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
4415	456670.6	3767672	9.566E-09	4.90E-10	0.00E+00	1.01E-08	9.57E-09	4.90E-10	0.00E+00	1.01E-08	2.87E-09	8.82E-11	0.00E+00	2.95E-09	1.09E-09	2.85E-11	0.00E+00	1.11E-09
4416	456674.2	3767663	9.67E-09	4.96E-10	0.00E+00	1.02E-08	9.67E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.91E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
4417	456677.8	3767654	9.771E-09	5.01E-10	0.00E+00	1.03E-08	9.77E-09	5.01E-10	0.00E+00	1.03E-08	2.93E-09	9.01E-11	0.00E+00	3.02E-09	1.11E-09	2.91E-11	0.00E+00	1.14E-09
4418	456681.4	3767645	9.869E-09	5.06E-10	0.00E+00	1.04E-08	9.87E-09	5.06E-10	0.00E+00	1.04E-08	2.96E-09	9.10E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
4419	456685.1	3767636	9.964E-09	5.11E-10	0.00E+00	1.05E-08	9.96E-09	5.11E-10	0.00E+00	1.05E-08	2.98E-09	9.18E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
4420	456688.7	3767627	1.006E-08	5.16E-10	0.00E+00	1.06E-08	1.01E-08	5.16E-10	0.00E+00	1.06E-08	3.01E-09	9.27E-11	0.00E+00	3.11E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
4421	456692.3	3767618	1.015E-08	5.20E-10	0.00E+00	1.07E-08	1.01E-08	5.20E-10	0.00E+00	1.07E-08	3.04E-09	9.35E-11	0.00E+00	3.13E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
4422	456522.2	3768036	4.947E-09	2.54E-10	0.00E+00	5.20E-09	4.95E-09	2.54E-10	0.00E+00	5.20E-09	1.48E-09	4.56E-11	0.00E+00	1.53E-09	5.61E-10	1.47E-11	0.00E+00	5.76E-10
4423	456522.2	3768046	4.884E-09	2.50E-10	0.00E+00	5.13E-09	4.88E-09	2.50E-10	0.00E+00	5.13E-09	1.46E-09	4.50E-11	0.00E+00	1.51E-09	5.54E-10	1.45E-11	0.00E+00	5.69E-10
4424	456522.3	3768056	4.821E-09	2.47E-10	0.00E+00	5.07E-09	4.82E-09	2.47E-10	0.00E+00	5.07E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.47E-10	1.43E-11	0.00E+00	5.61E-10
4425	456522.4	3768065	4.758E-09	2.44E-10	0.00E+00	5.00E-09	4.76E-09	2.44E-10	0.00E+00	5.00E-09	1.43E-09	4.39E-11	0.00E+00	1.47E-09	5.40E-10	1.42E-11	0.00E+00	5.54E-10
4426	456522.5	3768075	4.696E-09	2.41E-10	0.00E+00	4.94E-09	4.70E-09	2.41E-10	0.00E+00	4.94E-09	1.41E-09	4.33E-11	0.00E+00	1.45E-09	5.33E-10	1.40E-11	0.00E+00	5.47E-10
4427	456522.5	3768084	4.634E-09	2.38E-10	0.00E+00	4.87E-09	4.63E-09	2.38E-10	0.00E+00	4.87E-09	1.39E-09	4.27E-11	0.00E+00	1.43E-09	5.26E-10	1.38E-11	0.00E+00	5.40E-10
4428	456522.6	3768094	4.572E-09	2.34E-10	0.00E+00	4.81E-09	4.57E-09	2.34E-10	0.00E+00	4.81E-09	1.37E-09	4.21E-11	0.00E+00	1.41E-09	5.19E-10	1.36E-11	0.00E+00	5.32E-10
4429	456522.7	3768104	4.51E-09	2.31E-10	0.00E+00	4.74E-09	4.51E-09	2.31E-10	0.00E+00	4.74E-09	1.35E-09	4.16E-11	0.00E+00	1.39E-09	5.12E-10	1.34E-11	0.00E+00	5.25E-10
4430	456522.7	3768113	4.449E-09	2.28E-10	0.00E+00	4.68E-09	4.45E-09	2.28E-10	0.00E+00	4.68E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.05E-10	1.32E-11	0.00E+00	5.18E-10
4431	456522.8	3768123	4.388E-09	2.25E-10	0.00E+00	4.61E-09	4.39E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.04E-11	0.00E+00	1.35E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
4432	456522.9	3768133	4.327E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.91E-10	1.29E-11	0.00E+00	5.04E-10
4433	456523	3768142	4.268E-09	2.19E-10	0.00E+00	4.49E-09	4.27E-09	2.19E-10	0.00E+00	4.49E-09	1.28E-09	3.93E-11	0.00E+00	1.32E-09	4.84E-10	1.27E-11	0.00E+00	4.97E-10
4434	456523	3768152	4.21E-09	2.16E-10	0.00E+00	4.43E-09	4.21E-09	2.16E-10	0.00E+00	4.43E-09	1.26E-09	3.88E-11	0.00E+00	1.30E-09	4.78E-10	1.25E-11	0.00E+00	4.90E-10
4435	456523.1	3768161	4.152E-09	2.13E-10	0.00E+00	4.36E-09	4.15E-09	2.13E-10	0.00E+00	4.36E-09	1.24E-09	3.83E-11	0.00E+00	1.28E-09	4.71E-10	1.24E-11	0.00E+00	4.83E-10
4436	456523.2	3768171	4.095E-09	2.10E-10	0.00E+00	4.30E-09	4.09E-09	2.10E-10	0.00E+00	4.30E-09	1.23E-09	3.77E-11	0.00E+00	1.26E-09	4.65E-10	1.22E-11	0.00E+00	4.77E-10
4437	456523.3	3768181	4.038E-09	2.07E-10	0.00E+00	4.24E-09	4.04E-09	2.07E-10	0.00E+00	4.24E-09	1.21E-09	3.72E-11	0.00E+00	1.25E-09	4.58E-10	1.20E-11	0.00E+00	4.70E-10
4438	456523.3	3768190	3.981E-09	2.04E-10	0.00E+00	4.19E-09	3.98E-09	2.04E-10	0.00E+00	4.19E-09	1.19E-09	3.67E-11	0.00E+00	1.23E-09	4.52E-10	1.18E-11	0.00E+00	4.64E-10
4439	456523.4	3768200	3.926E-09	2.01E-10	0.00E+00	4.13E-09	3.93E-09	2.01E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.45E-10	1.17E-11	0.00E+00	4.57E-10
4440	456523.5	3768209	3.871E-09	1.98E-10	0.00E+00	4.07E-09	3.87E-09	1.98E-10	0.00E+00	4.07E-09	1.16E-09	3.57E-11	0.00E+00	1.20E-09	4.39E-10	1.15E-11	0.00E+00	4.51E-10
4441	456523.6	3768219	3.817E-09	1.96E-10	0.00E+00	4.01E-09	3.82E-09	1.96E-10	0.00E+00	4.01E-09	1.14E-09	3.52E-11	0.00E+00	1.18E-09	4.33E-10	1.14E-11	0.00E+00	4.44E-10
4442	456523.6	3768229	3.763E-09	1.93E-10	0.00E+00	3.96E-09	3.76E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.47E-11	0.00E+00	1.16E-09	4.27E-10	1.12E-11	0.00E+00	4.38E-10
4443	456523.7	3768238	3.709E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.15E-09	4.21E-10	1.10E-11	0.00E+00	4.32E-10
4444	457333.7	3768242	7.685E-08	3.94E-09	0.00E+00	8.08E-08	7.68E-08	3.94E-09	0.00E+00	8.08E-08	2.30E-08	7.08E-10	0.00E+00	2.37E-08	8.72E-09	2.29E-10	0.00E+00	8.95E-09
4445	457343.6	3768242	9.172E-08	4.70E-09	0.00E+00	9.64E-08	9.17E-08	4.70E-09	0.00E+00	9.64E-08	2.75E-08	8.46E-10	0.00E+00	2.83E-08	1.04E-08	2.73E-10	0.00E+00	1.07E-08
4446	457353.6	3768242	1.096E-07	5.62E-09	0.00E+00	1.15E-07	1.10E-07	5.62E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.26E-10	0.00E+00	1.28E-08
4447	457363.6	3768242	1.283E-07	6.58E-09	0.00E+00	1.35E-07	1.28E-07	6.58E-09	0.00E+00	1.35E-07	3.84E-08	1.18E-09	0.00E+00	3.96E-08	1.46E-08	3.82E-10	0.00E+00	1.49E-08
4448	457373.5	3768242	1.463E-07	7.50E-09	0.00E+00	1.54E-07	1.46E-07	7.50E-09	0.00E+00	1.54E-07	4.38E-08	1.35E-09	0.00E+00	4.52E-08	1.66E-08	4.35E-10	0.00E+00	1.70E-08
4449	457383.5	3768242	1.632E-07	8.36E-09	0.00E+00	1.72E-07	1.63E-07	8.36E-09	0.00E+00	1.72E-07	4.89E-08	1.50E-09	0.00E+00	5.04E-08	1.85E-08	4.86E-10	0.00E+00	1.90E-08
4450	457393.5	3768242	1.789E-07	9.17E-09	0.00E+00	1.88E-07	1.79E-07	9.17E-09	0.00E+00	1.88E-07	5.36E-08	1.65E-09	0.00E+00	5.52E-08	2.03E-08	5.32E-10	0.00E+00	2.08E-08
4451	457403.5	3768242	1.936E-07	9.93E-09	0.00E+00	2.04E-07	1.94E-07	9.93E-09	0.00E+00	2.04E-07	5.80E-08	1.78E-09	0.00E+00	5.98E-08	2.20E-08	5.76E-10	0.00E+00	2.25E-08
4452	457413.4	3768242	2.071E-07	1.06E-08	0.00E+00	2.18E-07	2.07E-07	1.06E-08	0.00E+00	2.18E-07	6.20E-08	1.91E-09	0.00E+00	6.39E-08	2.35E-08	6.16E-10	0.00E+00	2.41E-08
4453	457423.4	3768242	2.194E-07	1.12E-08	0.00E+00	2.31E-07	2.19E-07	1.12E-08	0.00E+00	2.31E-07	6.57E-08	2.02E-09	0.00E+00	6.77E-08	2.49E-08	6.53E-10	0.00E+00	2.55E-08
4454	457433.4	3768242	2.308E-07	1.18E-08	0.00E+00	2.43E-07	2.31E-07	1.18E-08	0.00E+00	2.43E-07	6.91E-08	2.13E-09	0.00E+00	7.12E-08	2.62E-08	6.87E-10	0.00E+00	2.69E-08
4455	457443.3	3768242	2.411E-07	1.24E-08	0.00E+00	2.53E-07	2.41E-07	1.24E-08	0.00E+00	2.53E-07	7.22E-08	2.22E-09	0.00E+00	7.44E-08	2.74E-08	7.17E-10	0.00E+00	2.81E-08
4456	457453.3	3768242	2.504E-07	1.28E-08	0.00E+00	2.63E-07	2.50E-07	1.28E-08	0.00E+00	2.63E-07	7.50E-08	2.31E-09	0.00E+00	7.73E-08	2.84E-08	7.45E-10	0.00E+00	2.92E-08
4457	457463.3	3768242	2.586E-07	1.33E-08	0.00E+00	2.72E-07	2.59E-07	1.33E-08	0.00E+00	2.72E-07	7.75E-08	2.38E-09	0.00E+00	7.98E-08	2.93E-08	7.70E-10	0.00E+00	3.01E-08
4458	457473.2	3768242	2.661E-07	1.36E-08	0.00E+00	2.80E-07	2.66E-07	1.36E-08	0.00E+00	2.80E-07	7.97E-08	2.45E-09	0.00E+00	8.22E-08	3.02E-08	7.92E-10	0.00E+00	3.10E-08
4459	457483.2	3768242	2.729E-07	1.40E-08	0.00E+00	2.87E-07	2.73E-07	1.40E-08	0.00E+00	2.87E-07	8.17E-08	2.52E-09	0.00E+00	8.43E-08	3.10E-08	8.12E-10	0.00E+00	3.18E-08
4460	457493.2	3768242	2.791E-07	1.43E-08	0.00E+00	2.93E-07	2.79E-07	1.43E-08	0.00E+00	2.93E-07	8.36E-08	2.57E-09	0.00E+00	8.62E-08	3.17E-08	8.31E-10	0.00E+00	3.25E-08
4461	457503.2	3768242	2.847E-07	1.46E-08	0.00E+00	2.99E-07	2.85E-07	1.46E-08	0.00E+00	2.99E-07	8.53E-08	2.62E-09	0.00E+00	8.79E-08	3.23E-08	8.47E-10	0.00E+00	3.31E-08
4462	457513.1	3768242	2.9E-07	1.49E-08	0.00E+00	3.05E-07	2.90E-07	1.49E-08	0.00E+00	3.05E-07	8.69E-08	2.67E-09	0.00E+00	8.95E-08	3.29E-08	8.63E-10	0.00E+00	3.38E-08
4463	457523.1	3768242	2.95E-07	1.51E-08	0.00E+00	3.10E-07	2.95E-07	1.51E-08	0.00E+00	3.10E-07	8.84E-08	2.72E-09	0.00E+00	9.11E-08	3.35E-08	8.78E-10	0.00E+00	3.43E-08
4464	457533.1	3768242	2.995E-07	1.54E-08	0.00E+00	3.15E-07	3.00E-07	1.54E-08	0.00E+00	3.15E-07	8.97E-08	2.76E-09	0.00E+00	9.25E-08	3.40E-08	8.91E-10	0.00E+00	3.49E-08
4465	457543	3768242	3.036E-07	1.56E-08	0.00E+00	3.19E-07	3.04E-07	1.56E-08	0.00E+00	3.19E-07	9.09E-08	2.80E-09	0.00E+00	9.37E-08	3.44E-08	9.04E-10	0.00E+00	3.54E-08
4466	457553	3768242	3.073E-07	1.58E-08	0.00E+00	3.23E-07	3.07E-07	1.58E-08	0.00E+00	3.23E-07	9.20E-08	2.83E-09	0.00E+00	9.49E-08	3.49E-08	9.14E-10	0.00E+00	3.58E-08
4467	457563	3768242	3.106E-07	1.59E-08	0.00E+00	3.27E-07	3.11E-07	1.59E-08	0.00E+00	3.27E-07	9.30E-08	2.86E-09	0.00E+00	9.59E-08	3.52E-08	9.24E-10	0.00E+00	3.62E-08
4468	457572.9	3768242	3.132E-07	1.61E-08	0.00E+00	3.29E-07	3.13E-07	1.61E-08	0.00E+00	3.29E-07	9.38E-08	2.89E-09	0.00E+00	9.67E-08	3.55E-08	9.32E-10	0.00E+00	3.65E-08
4469	457582.9	3768242	3.152E-07	1.62E-08	0.00E+00	3.31E-07	3.15E-07	1.62E-08	0.00E+00	3.31E-07	9.44E-08	2.91E-09	0.00E+00	9.73E-08	3.58E-08	9.38E-10	0.00E+00	3.67E-08
4470	457592.9	3768242	3.166E-07	1.62E-08	0.00E+00	3.33E-07	3.17E-07	1.62E-08	0.00E+00	3.33E-07	9.48E-08	2.92E-09	0.00E+00	9.77E-08	3.59E-08	9.42E-10	0.00E+00	3.69E-08
4471	457602.9	3768242	3.176E-07	1.63E-08	0.00E+00	3.34E-07	3.18E-07	1.63E-08	0.00E+00	3.34E-07	9.51E-08	2.93E-09	0.00E+00	9.80E-08	3.60E-08	9.45E-10	0.00E+00	3.70E-08
4472	457612.8	3768242	3.182E-07	1.63E-08	0.00E+00	3.34E-07	3.18E-07	1.63E-08	0.00E+00	3.34E-07	9.53E-08	2.93E-09	0.00E+00	9.82E-08	3.61E-08	9.47E-10	0.00E+00	3.70E-08
4473	457622.8	3768242	3.182E-07	1.63E-08	0.00E+00	3.35E-07	3.18E-07	1.63E-08	0.00E+00	3.35E-07	9.53E-08	2.93E-09	0.00E+00	9.82E-08	3.61E-08	9.47E-10	0.00E+00	3.71E-08
4474	457632.8	3768242	3.181E-07	1.63E-08	0.00E+00	3.34E-07	3.18E-07	1.63E-08	0.00E+00	3.34E-07	9.53E-08	2.93E-09	0.00E+00	9.82E-08	3.61E-08	9.46E-10	0.00E+00	3.70E-08
4475	457642.7	3768242	3.178E-07	1.63E-08	0.00E+00	3.34E-07	3.18E-07	1.63E-08	0.00E+00	3.34E-07	9.52E-08	2.93E-09	0.00E+00	9.81E-08	3.61E-08	9.46E-10	0.00E+00	3.70E-08
4476	457652.7	3768242	3.169E-07	1.62E-08	0.00E+00	3.33E-07	3.17E-07	1.62E-08	0.00E+00	3.33E-07	9.49E-08	2.92E-09	0.00E+00	9.78E-08	3.60E-08	9.43E-10	0.00E+00	3.69E-08
4477	457662.7	3768242	3.153E-07	1.62E-08	0.00E+00	3.31E-07	3.15E-07	1.62E-08	0.00E+00	3.31E-07	9.44E-08	2.91E-09	0.00E+00	9.73E-08	3.58E-08	9.38E-10	0.00E+00	3.67E-08

4478	457672.6	3768242	3.129E-07	1.60E-08	0.00E+00	3.29E-07	3.13E-07	1.60E-08	0.00E+00	3.29E-07	9.37E-08	2.88E-09	0.00E+00	9.66E-08	3.55E-08	9.31E-10	0.00E+00	3.64E-08
4479	457682.6	3768242	3.092E-07	1.59E-08	0.00E+00	3.25E-07	3.09E-07	1.59E-08	0.00E+00	3.25E-07	9.26E-08	2.85E-09	0.00E+00	9.54E-08	3.51E-08	9.20E-10	0.00E+00	3.60E-08
4480	457692.6	3768242	3.035E-07	1.56E-08	0.00E+00	3.19E-07	3.03E-07	1.56E-08	0.00E+00	3.19E-07	9.09E-08	2.80E-09	0.00E+00	9.37E-08	3.44E-08	9.03E-10	0.00E+00	3.53E-08
4481	457702.6	3768242	2.938E-07	1.51E-08	0.00E+00	3.09E-07	2.94E-07	1.51E-08	0.00E+00	3.09E-07	8.80E-08	2.71E-09	0.00E+00	9.07E-08	3.33E-08	8.74E-10	0.00E+00	3.42E-08
4482	457333.7	3768252	6.386E-08	3.27E-09	0.00E+00	6.71E-08	6.39E-08	3.27E-09	0.00E+00	6.71E-08	1.91E-08	5.89E-10	0.00E+00	1.97E-08	7.25E-09	1.90E-10	0.00E+00	7.44E-09
4483	457343.6	3768252	7.351E-08	3.77E-09	0.00E+00	7.73E-08	7.35E-08	3.77E-09	0.00E+00	7.73E-08	2.20E-08	6.78E-10	0.00E+00	2.27E-08	8.34E-09	2.19E-10	0.00E+00	8.56E-09
4484	457353.6	3768252	8.498E-08	4.36E-09	0.00E+00	8.93E-08	8.50E-08	4.36E-09	0.00E+00	8.93E-08	2.55E-08	7.83E-10	0.00E+00	2.62E-08	9.64E-09	2.53E-10	0.00E+00	9.89E-09
4485	457363.6	3768252	9.776E-08	5.01E-09	0.00E+00	1.03E-07	9.78E-08	5.01E-09	0.00E+00	1.03E-07	2.93E-08	9.01E-10	0.00E+00	3.02E-08	1.11E-08	2.91E-10	0.00E+00	1.14E-08
4486	457373.5	3768252	1.112E-07	5.70E-09	0.00E+00	1.17E-07	1.11E-07	5.70E-09	0.00E+00	1.17E-07	3.33E-08	1.03E-09	0.00E+00	3.43E-08	1.26E-08	3.31E-10	0.00E+00	1.29E-08
4487	457383.5	3768252	1.246E-07	6.39E-09	0.00E+00	1.31E-07	1.25E-07	6.39E-09	0.00E+00	1.31E-07	3.73E-08	1.15E-09	0.00E+00	3.85E-08	1.41E-08	3.71E-10	0.00E+00	1.45E-08
4488	457393.5	3768252	1.375E-07	7.05E-09	0.00E+00	1.44E-07	1.37E-07	7.05E-09	0.00E+00	1.44E-07	4.12E-08	1.27E-09	0.00E+00	4.24E-08	1.56E-08	4.09E-10	0.00E+00	1.60E-08
4489	457403.5	3768252	1.498E-07	7.68E-09	0.00E+00	1.57E-07	1.50E-07	7.68E-09	0.00E+00	1.57E-07	4.49E-08	1.38E-09	0.00E+00	4.62E-08	1.70E-08	4.46E-10	0.00E+00	1.74E-08
4490	457413.4	3768252	1.613E-07	8.27E-09	0.00E+00	1.70E-07	1.61E-07	8.27E-09	0.00E+00	1.70E-07	4.83E-08	1.49E-09	0.00E+00	4.98E-08	1.83E-08	4.80E-10	0.00E+00	1.88E-08
4491	457423.4	3768252	1.721E-07	8.82E-09	0.00E+00	1.81E-07	1.72E-07	8.82E-09	0.00E+00	1.81E-07	5.15E-08	1.59E-09	0.00E+00	5.31E-08	1.95E-08	5.12E-10	0.00E+00	2.00E-08
4492	457433.4	3768252	1.822E-07	9.34E-09	0.00E+00	1.92E-07	1.82E-07	9.34E-09	0.00E+00	1.92E-07	5.46E-08	1.68E-09	0.00E+00	5.63E-08	2.07E-08	5.42E-10	0.00E+00	2.12E-08
4493	457443.3	3768252	1.916E-07	9.82E-09	0.00E+00	2.01E-07	1.92E-07	9.82E-09	0.00E+00	2.01E-07	5.74E-08	1.77E-09	0.00E+00	5.91E-08	2.17E-08	5.70E-10	0.00E+00	2.23E-08
4494	457453.3	3768252	2.001E-07	1.03E-08	0.00E+00	2.10E-07	2.00E-07	1.03E-08	0.00E+00	2.10E-07	5.99E-08	1.84E-09	0.00E+00	6.18E-08	2.27E-08	5.95E-10	0.00E+00	2.33E-08
4495	457463.3	3768252	2.075E-07	1.06E-08	0.00E+00	2.18E-07	2.07E-07	1.06E-08	0.00E+00	2.18E-07	6.21E-08	1.91E-09	0.00E+00	6.41E-08	2.35E-08	6.17E-10	0.00E+00	2.42E-08
4496	457473.2	3768252	2.143E-07	1.10E-08	0.00E+00	2.25E-07	2.14E-07	1.10E-08	0.00E+00	2.25E-07	6.42E-08	1.98E-09	0.00E+00	6.62E-08	2.43E-08	6.38E-10	0.00E+00	2.50E-08
4497	457483.2	3768252	2.207E-07	1.13E-08	0.00E+00	2.32E-07	2.21E-07	1.13E-08	0.00E+00	2.32E-07	6.61E-08	2.03E-09	0.00E+00	6.81E-08	2.50E-08	6.57E-10	0.00E+00	2.57E-08
4498	457493.2	3768252	2.27E-07	1.16E-08	0.00E+00	2.39E-07	2.27E-07	1.16E-08	0.00E+00	2.39E-07	6.80E-08	2.09E-09	0.00E+00	7.01E-08	2.58E-08	6.75E-10	0.00E+00	2.64E-08
4499	457503.2	3768252	2.327E-07	1.19E-08	0.00E+00	2.45E-07	2.33E-07	1.19E-08	0.00E+00	2.45E-07	6.97E-08	2.14E-09	0.00E+00	7.18E-08	2.64E-08	6.92E-10	0.00E+00	2.71E-08
4500	457513.1	3768252	2.38E-07	1.22E-08	0.00E+00	2.50E-07	2.38E-07	1.22E-08	0.00E+00	2.50E-07	7.13E-08	2.19E-09	0.00E+00	7.35E-08	2.70E-08	7.08E-10	0.00E+00	2.77E-08
4501	457523.1	3768252	2.429E-07	1.25E-08	0.00E+00	2.55E-07	2.43E-07	1.25E-08	0.00E+00	2.55E-07	7.27E-08	2.24E-09	0.00E+00	7.50E-08	2.76E-08	7.23E-10	0.00E+00	2.83E-08
4502	457533.1	3768252	2.473E-07	1.27E-08	0.00E+00	2.60E-07	2.47E-07	1.27E-08	0.00E+00	2.60E-07	7.41E-08	2.28E-09	0.00E+00	7.64E-08	2.81E-08	7.36E-10	0.00E+00	2.88E-08
4503	457543	3768252	2.514E-07	1.29E-08	0.00E+00	2.64E-07	2.51E-07	1.29E-08	0.00E+00	2.64E-07	7.53E-08	2.32E-09	0.00E+00	7.76E-08	2.85E-08	7.48E-10	0.00E+00	2.93E-08
4504	457553	3768252	2.551E-07	1.31E-08	0.00E+00	2.68E-07	2.55E-07	1.31E-08	0.00E+00	2.68E-07	7.64E-08	2.35E-09	0.00E+00	7.88E-08	2.89E-08	7.59E-10	0.00E+00	2.97E-08
4505	457563	3768252	2.584E-07	1.32E-08	0.00E+00	2.72E-07	2.58E-07	1.32E-08	0.00E+00	2.72E-07	7.74E-08	2.38E-09	0.00E+00	7.98E-08	2.93E-08	7.69E-10	0.00E+00	3.01E-08
4506	457573	3768252	2.611E-07	1.34E-08	0.00E+00	2.74E-07	2.61E-07	1.34E-08	0.00E+00	2.74E-07	7.82E-08	2.41E-09	0.00E+00	8.06E-08	2.96E-08	7.77E-10	0.00E+00	3.04E-08
4507	457582.9	3768252	2.63E-07	1.35E-08	0.00E+00	2.76E-07	2.63E-07	1.35E-08	0.00E+00	2.76E-07	7.88E-08	2.42E-09	0.00E+00	8.12E-08	2.98E-08	7.83E-10	0.00E+00	3.06E-08
4508	457592.9	3768252	2.645E-07	1.36E-08	0.00E+00	2.78E-07	2.64E-07	1.36E-08	0.00E+00	2.78E-07	7.92E-08	2.44E-09	0.00E+00	8.17E-08	3.00E-08	7.87E-10	0.00E+00	3.08E-08
4509	457602.9	3768252	2.658E-07	1.36E-08	0.00E+00	2.79E-07	2.66E-07	1.36E-08	0.00E+00	2.79E-07	7.96E-08	2.45E-09	0.00E+00	8.21E-08	3.02E-08	7.91E-10	0.00E+00	3.10E-08
4510	457612.8	3768252	2.671E-07	1.37E-08	0.00E+00	2.81E-07	2.67E-07	1.37E-08	0.00E+00	2.81E-07	8.00E-08	2.46E-09	0.00E+00	8.25E-08	3.03E-08	7.95E-10	0.00E+00	3.11E-08
4511	457622.8	3768252	2.68E-07	1.37E-08	0.00E+00	2.82E-07	2.68E-07	1.37E-08	0.00E+00	2.82E-07	8.03E-08	2.47E-09	0.00E+00	8.28E-08	3.04E-08	7.98E-10	0.00E+00	3.12E-08
4512	457632.8	3768252	2.686E-07	1.38E-08	0.00E+00	2.82E-07	2.69E-07	1.38E-08	0.00E+00	2.82E-07	8.05E-08	2.48E-09	0.00E+00	8.29E-08	3.05E-08	7.99E-10	0.00E+00	3.13E-08
4513	457642.7	3768252	2.689E-07	1.38E-08	0.00E+00	2.83E-07	2.69E-07	1.38E-08	0.00E+00	2.83E-07	8.05E-08	2.48E-09	0.00E+00	8.30E-08	3.05E-08	8.00E-10	0.00E+00	3.13E-08
4514	457652.7	3768252	2.686E-07	1.38E-08	0.00E+00	2.82E-07	2.69E-07	1.38E-08	0.00E+00	2.82E-07	8.05E-08	2.48E-09	0.00E+00	8.29E-08	3.05E-08	7.99E-10	0.00E+00	3.13E-08
4515	457662.7	3768252	2.678E-07	1.37E-08	0.00E+00	2.81E-07	2.68E-07	1.37E-08	0.00E+00	2.81E-07	8.02E-08	2.47E-09	0.00E+00	8.27E-08	3.04E-08	7.97E-10	0.00E+00	3.12E-08
4516	457672.7	3768252	2.663E-07	1.37E-08	0.00E+00	2.80E-07	2.66E-07	1.37E-08	0.00E+00	2.80E-07	7.97E-08	2.45E-09	0.00E+00	8.22E-08	3.02E-08	7.92E-10	0.00E+00	3.10E-08
4517	457682.6	3768252	2.638E-07	1.35E-08	0.00E+00	2.77E-07	2.64E-07	1.35E-08	0.00E+00	2.77E-07	7.90E-08	2.43E-09	0.00E+00	8.15E-08	2.99E-08	7.85E-10	0.00E+00	3.07E-08
4518	457692.6	3768252	2.601E-07	1.33E-08	0.00E+00	2.73E-07	2.60E-07	1.33E-08	0.00E+00	2.73E-07	7.79E-08	2.40E-09	0.00E+00	8.03E-08	2.95E-08	7.74E-10	0.00E+00	3.03E-08
4519	457333.7	3768262	5.473E-08	2.81E-09	0.00E+00	5.75E-08	5.47E-08	2.81E-09	0.00E+00	5.75E-08	1.64E-08	5.04E-10	0.00E+00	1.69E-08	6.21E-09	1.63E-10	0.00E+00	6.37E-09
4520	457343.6	3768262	6.145E-08	3.15E-09	0.00E+00	6.46E-08	6.14E-08	3.15E-09	0.00E+00	6.46E-08	1.84E-08	5.66E-10	0.00E+00	1.90E-08	6.97E-09	1.83E-10	0.00E+00	7.15E-09
4521	457353.6	3768262	6.937E-08	3.56E-09	0.00E+00	7.29E-08	6.94E-08	3.56E-09	0.00E+00	7.29E-08	2.08E-08	6.39E-10	0.00E+00	2.14E-08	7.87E-09	2.06E-10	0.00E+00	8.08E-09
4522	457363.6	3768262	7.853E-08	4.03E-09	0.00E+00	8.26E-08	7.85E-08	4.03E-09	0.00E+00	8.26E-08	2.35E-08	7.24E-10	0.00E+00	2.42E-08	8.91E-09	2.34E-10	0.00E+00	9.14E-09
4523	457373.5	3768262	8.858E-08	4.54E-09	0.00E+00	9.31E-08	8.86E-08	4.54E-09	0.00E+00	9.31E-08	2.65E-08	8.17E-10	0.00E+00	2.73E-08	1.00E-08	2.64E-10	0.00E+00	1.03E-08
4524	457383.5	3768262	9.899E-08	5.07E-09	0.00E+00	1.04E-07	9.90E-08	5.07E-09	0.00E+00	1.04E-07	2.96E-08	9.12E-10	0.00E+00	3.06E-08	1.12E-08	2.95E-10	0.00E+00	1.15E-08
4525	457393.5	3768262	1.094E-07	5.61E-09	0.00E+00	1.15E-07	1.09E-07	5.61E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.25E-10	0.00E+00	1.27E-08
4526	457403.5	3768262	1.195E-07	6.13E-09	0.00E+00	1.26E-07	1.20E-07	6.13E-09	0.00E+00	1.26E-07	3.58E-08	1.10E-09	0.00E+00	3.69E-08	1.36E-08	3.56E-10	0.00E+00	1.39E-08
4527	457413.4	3768262	1.293E-07	6.63E-09	0.00E+00	1.36E-07	1.29E-07	6.63E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
4528	457423.4	3768262	1.386E-07	7.11E-09	0.00E+00	1.46E-07	1.39E-07	7.11E-09	0.00E+00	1.46E-07	4.15E-08	1.28E-09	0.00E+00	4.28E-08	1.57E-08	4.13E-10	0.00E+00	1.61E-08
4529	457433.4	3768262	1.474E-07	7.56E-09	0.00E+00	1.55E-07	1.47E-07	7.56E-09	0.00E+00	1.55E-07	4.42E-08	1.36E-09	0.00E+00	4.55E-08	1.67E-08	4.39E-10	0.00E+00	1.72E-08
4530	457443.3	3768262	1.557E-07	7.98E-09	0.00E+00	1.64E-07	1.56E-07	7.98E-09	0.00E+00	1.64E-07	4.66E-08	1.44E-09	0.00E+00	4.81E-08	1.77E-08	4.63E-10	0.00E+00	1.81E-08
4531	457453.3	3768262	1.633E-07	8.37E-09	0.00E+00	1.72E-07	1.63E-07	8.37E-09	0.00E+00	1.72E-07	4.89E-08	1.51E-09	0.00E+00	5.04E-08	1.85E-08	4.86E-10	0.00E+00	1.90E-08
4532	457463.3	3768262	1.703E-07	8.73E-09	0.00E+00	1.79E-07	1.70E-07	8.73E-09	0.00E+00	1.79E-07	5.10E-08	1.57E-09	0.00E+00	5.26E-08	1.93E-08	5.07E-10	0.00E+00	1.98E-08
4533	457473.3	3768262	1.768E-07	9.06E-09	0.00E+00	1.86E-07	1.77E-07	9.06E-09	0.00E+00	1.86E-07	5.29E-08	1.63E-09	0.00E+00	5.46E-08	2.01E-08	5.26E-10	0.00E+00	2.06E-08
4534	457483.2	3768262	1.829E-07	9.38E-09	0.00E+00	1.92E-07	1.83E-07	9.38E-09	0.00E+00	1.92E-07	5.48E-08	1.69E-09	0.00E+00	5.65E-08	2.07E-08	5.44E-10	0.00E+00	2.13E-08
4535	457493.2	3768262	1.889E-07	9.68E-09	0.00E+00	1.99E-07	1.89E-07	9.68E-09	0.00E+00	1.99E-07	5.66E-08	1.74E-09	0.00E+00	5.83E-08	2.14E-08	5.62E-10	0.00E+00	2.20E-08
4536	457503.2	3768262	1.944E-07	9.97E-09	0.00E+00	2.04E-07	1.94E-07	9.97E-09	0.00E+00	2.04E-07	5.82E-08	1.79E-09	0.00E+00	6.00E-08	2.21E-08	5.78E-10	0.00E+00	2.26E-08
4537	457513.1	3768262	1.996E-07	1.02E-08	0.00E+00	2.10E-07	2.00E-07	1.02E-08	0.00E+00	2.10E-07	5.98E-08	1.84E-09	0.00E+00	6.16E-08	2.26E-08	5.94E-10	0.00E+00	2.32E-08
4538	457523.1	3768262	2.043E-07	1.05E-08	0.00E+00	2.15E-07	2.04E-07	1.05E-08	0.00E+00	2.15E-07	6.12E-08	1.88E-09	0.00E+00	6.31E-08	2.32E-08	6.08E-10	0.00E+00	2.38E-08
4539	457533.1	3768262	2.086E-07	1.07E-08	0.00E+00	2.19E-07	2.09E-07	1.07E-08	0.00E+00	2.19E-07	6.25E-08	1.92E-09	0.00E+00	6.44E-08	2.37E-08	6.21E-10	0.00E+00	2.43E-08
4540	457543	3768262	2.126E-07	1.09E-08	0.00E+00	2.23E-07	2.13E-07	1.09E-08	0.00E+00	2.23E-07	6.37E-08	1.96E-09	0.00E+00	6.56E-08	2.41E-08	6.33E-10	0.00E+00	2.47E-08
4541	457553	3768262	2.161E-07	1.11E-08	0.00E+00	2.27E-07	2.16E-07	1.11E-08	0.00E+00	2.27E-07	6.47E-08	1.99E-09	0.00E+00	6.67E-08	2.45E-08	6.43E-10	0.00E+00	2.52E-08
4542	457563	3768262	2.193E-07	1.12E-08	0.00E+00	2.31E-07	2.19E-07	1.12E-08	0.00E+00	2.31E-07	6.57E-08	2.02E-09	0.00E+00	6.77E-08	2.49E-08	6.53E-10	0.00E+00	2.55E-08
4543	457573	3768262	2.22E-07	1.14E-08	0.00E+00	2.33E-07	2.22E-07	1.14E-08	0.00E+00	2.33E-07	6.65E-08	2.05E-09	0.00E+00	6.85E-08	2.52E-08	6.61E-10	0.00E+00	2.58E-08
4544	457582.9	3768262	2.242E-07	1.15E-08	0.00E+00	2.36E-07	2.24E-07	1.15E-08	0.00E+00	2.36E-07	6.72E-08	2.07E-09	0.00E+00	6.92E-08	2.54E-08	6.67E-10	0.00E+00	2.61E-08
4545	457592.9	3768262	2.26E-07	1.16E-08	0.00E+00	2.38E-07	2.26E-07	1.16E-08	0.00E+00	2.38E-07	6.77E-08	2.08E-09	0.00E+00	6.98E-08	2.56E-08	6.73E-10	0.00E+00	2.63E-08
4546	457602.9	3768262	2.277E-07	1.17E-08	0.00E+00	2.39E-07	2.28E-07	1.17E-08	0.00E+00	2.39E-07	6.82E-08	2.10E-09	0.00E+00	7.03E-08	2.58E-08	6.77E-10	0.00E+00	2.65E-08
4547	457612.8	3768262	2.293E-07	1.18E-08	0.00E+00	2.41E-07	2.29E-07	1.18E-08	0.00E+00	2.41E-07	6.87E-08	2.11E-09	0.00E+00	7.08E-08	2.60E-08	6.82E-10	0.00E+00	2.67E-08
4548	457622.8	3768262	2.306E-07	1.18E-08	0.00E+00	2.42E-07	2.31E-07	1.18E-08	0.00E+00	2.42E-07	6.91E-08	2.13E-09	0.00E+00	7.12E-08	2.62E-08	6.86E-10	0.00E+00	2.68E-08
4549	457632.8	3768262	2.316E-07	1.19E-08	0.00E+00	2.43E-07	2.32E-07	1.19E-08	0.00E+00	2.43E-07	6.94E-08	2.13E-09	0.00E+00	7.15E-08	2.63E-08	6.89E-10	0.00E+00	2.70E-08
4550	457642.7	3768262	2.322E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.95E-08	2.14E-09	0.00E+00	7.17E-08	2.63E-08	6.91E-10	0.00E+00	2.70E-08
4551	457652.7	3768262	2.324E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.96E-08	2.14E-09	0.00E+00	7.17E-08	2.64E-08	6.91E-10	0.00E+00	2.71E-08
4552	457662.7	3768262	2.321E-07	1.19E-08	0.00E+00	2.44E-07	2.32E-07	1.19E-08	0.00E+00	2.44E-07	6.95E-08	2.14E-09	0.00E+00	7.16E-08	2.63E-08	6.91E-10	0.00E+00	2.70E-08
4553	457672.7	3768262	2.312E-07	1.19E-08	0.00E+00	2.43E-07	2.31E-07	1.19E-08	0.00E+00	2.43E-07	6.93E-08	2.13E-09	0.00E+00	7.14E-08	2.62E-08	6.88E-10	0.00E+00	2.69E-08
4554	457682.6	3768262	2.297E-07	1.18E-08	0.00E+00	2.41E-07	2.30E-07	1.18E-08	0.00E+00	2.41E-07	6.88E-08	2.12E-09	0.00E+00	7.09E-08	2.61E-08	6.83E-10	0.00E+00	2.67E-08
4555	457692.6	3768262	2.272E-07	1.16E-08	0.00E+00	2.39E-07	2.27E-07	1.16E-08	0.00E+00	2.39E-07	6.81E-08	2.09E-09	0.00E+00	7.02E-08	2.58E-08	6.76E-10	0.00E+00	2.65E-08
4556	457702.6	3768262	2.234E-07	1.15E-08	0.00E+00	2.35E-07	2.23E-07	1.15E-08	0.00E+00	2.35E-07	6.69E-08	2.06E-09	0.00E+00	6.90E-08	2.53E-08	6.65E-10	0.00E+00	2.60E-08
4557	457292.6	3768254	4.139E-08	2.12E-09	0.00E+00	4.35E-08	4.14E-08	2.12E-09	0.00E+00	4.35E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.82E-09
4558	457333.7	3768272	4.782E-08	2.45E-09	0.00E+00	5.03E-08	4.78E-08	2.45E-09	0.00E+00	5.03E-08	1.43E-08	4.41E-10	0.00E+00	1.48E-08	5.42E-09	1.42E-10	0.00E+00	5.57E-09
4559	457343.6	3768272	5.275E-08	2.70E-09	0.00E+00	5.55E-08	5.28E-08	2.70E-09	0.00E+00	5.55E-08	1.58E-08	4.86E-10	0.00E+00	1.63E-08	5.98E-09	1.57E-10	0.00E+00	6.14E-09
4560	457353.6	3768272	5.864E-08	3.01E-09	0.00E+00	6.16E-08	5.86E-08	3.01E-09	0.00E+00	6.16E-08	1.76E-08	5.41E-10	0.00E+00	1.81E-08	6.65E-09	1.74E-10	0.00E+00	6.83E-09
4561	457363.6	3768272	6.548E-08	3.36E-09	0.00E+00	6.88E-08	6.55E-08	3.36E-09	0.00E+00	6.88E-08	1.96E-08	6.04E-10	0.00E+00	2.02E-08	7.43E-09	1.95E-10	0.00E+00	7.62E-09
4562	457373.6	3768272	7.309E-08	3.75E-09	0.00E+00	7.68E-08	7.31E-08	3.75E-09	0.00E+00	7.68E-08	2.19E-08	6.74E-10	0.00E+00	2.26E-08	8.29E-09	2.17E-10	0.00E+00	8.51E-09
4563	457383.5	3768272	8.118E-08	4.16E-09	0.00E+00	8.53E-08	8.12E-08	4.16E-09	0.00E+00	8.53E-08	2.43E-08	7.48E-10	0.00E+00	2.51E-08	9.21E-09	2.42E-10	0.00E+00	9.45E-09
4564	457393.5	3768272	8.948E-08	4.59E-09	0.00E+00	9.41E-08	8.95E-08	4.59E-09	0.00E+00	9.41E-08	2.68E-08	8.25E-10	0.00E+00	2.76E-08	1.02E-08	2.66E-10	0.00E+00	1.04E-08
4565	457403.5	3768272	9.784E-08	5.02E-09	0.00E+00	1.03E-07	9.78E-08	5.02E-09	0.00E+00	1.03E-07	2.93E-08	9.02E-10	0.00E+00	3.02E-08	1.11E-08	2.91E-10	0.00E+00	1.14E-08
4566	457413.4	3768272	1.061E-07	5.44E-09	0.00E+00	1.11E-07	1.06E-07	5.44E-09	0.00E+00	1.11E-07	3.18E-08	9.78E-10	0.00E+00	3.27E-08	1.20E-08	3.16E-10	0.00E+00	1.23E-08
4567	457423.4	3768272	1.14E-07	5.84E-09	0.00E+00	1.20E-07	1.14E-07	5.84E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.39E-10	0.00E+00	1.33E-08
4568	457433.4	3768272	1.215E-07	6.23E-09	0.00E+00	1.28E-07	1.22E-07	6.23E-09	0.00E+00	1.28E-07	3.64E-08	1.12E-09	0.00E+00	3.75E-08	1.38E-08	3.62E-10	0.00E+00	1.41E-08
4569	457443.3	3768272	1.287E-07	6.60E-09	0.00E+00	1.35E-07	1.29E-07	6.60E-09	0.00E+00	1.35E-07	3.85E-08	1.19E-09	0.00E+00	3.97E-08	1.46E-08	3.83E-10	0.00E+00	1.50E-08
4570	457453.3	3768272	1.356E-07	6.95E-09	0.00E+00	1.43E-07	1.36E-07	6.95E-09	0.00E+00	1.43E-07	4.06E-08	1.25E-09	0.00E+00	4.19E-08	1.54E-08	4.03E-10	0.00E+00	1.58E-08
4571	457463.3	3768272	1.42E-07	7.28E-09	0.00E+00	1.49E-07	1.42E-07	7.28E-09	0.00E+00	1.49E-07	4.25E-08	1.31E-09	0.00E+00	4.39E-08	1.61E-08	4.23E-10	0.00E+00	1.65E-08
4572	457473.3	3768272	1.482E-07	7.60E-09	0.00E+00	1.56E-07	1.48E-07	7.60E-09	0.00E+00	1.56E-07	4.44E-08	1.37E-09	0.00E+00	4.57E-08	1.68E-08	4.41E-10	0.00E+00	1.73E-08
4573	457483.2	3768272	1.54E-07	7.89E-09	0.00E+00	1.62E-07	1.54E-07	7.89E-09	0.00E+00	1.62E-07	4.61E-08	1.42E-09	0.00E+00	4.75E-08	1.75E-08	4.58E-10	0.00E+00	1.79E-08
4574	457493.2	3768272	1.596E-07	8.18E-09	0.00E+00	1.68E-07	1.60E-07	8.18E-09	0.00E+00	1.68E-07	4.78E-08	1.47E-09	0.00E+00	4.93E-08	1.81E-08	4.75E-10	0.00E+00	1.86E-08
4575	457503.2	3768272	1.648E-07	8.45E-09	0.00E+00	1.73E-07	1.65E-07	8.45E-09	0.00E+00	1.73E-07	4.93E-08	1.52E-09	0.00E+00	5.09E-08	1.87E-08	4.90E-10	0.00E+00	1.92E-08
4576	457513.1	3768272	1.696E-07	8.70E-09	0.00E+00	1.78E-07	1.70E-07	8.70E-09	0.00E+00	1.78E-07	5.08E-08	1.56E-09	0.00E+00	5.24E-08	1.92E-08	5.05E-10	0.00E+00	1.98E-08
4577	457523.1	3768272	1.741E-07	8.93E-09	0.00E+00	1.83E-07	1.74E-07	8.93E-09	0.00E+00	1.83E-07	5.22E-08	1.61E-09	0.00E+00	5.38E-08	1.98E-08	5.18E-10	0.00E+00	2.03E-08
4578	457533.1	3768272	1.783E-07	9.14E-09	0.00E+00	1.87E-07	1.78E-07	9.14E-09	0.00E+00	1.87E-07	5.34E-08	1.64E-09	0.00E+00	5.51E-08	2.02E-08	5.31E-10	0.00E+00	2.08E-08
4579	457543	3768272	1.821E-07	9.34E-09	0.00E+00	1.91E-07	1.82E-07	9.34E-09	0.00E+00	1.91E-07	5.46E-08	1.68E-09	0.00E+00	5.62E-08	2.07E-08	5.42E-10	0.00E+00	2.12E-08
4580	457553	3768272	1.855E-07	9.51E-09	0.00E+00	1.95E-07	1.85E-07	9.51E-09	0.00E+00	1.95E-07	5.56E-08	1.71E-09	0.00E+00	5.73E-08	2.10E-08	5.52E-10	0.00E+00	2.16E-08
4581	457563	3768272	1.885E-07	9.66E-09	0.00E+00	1.98E-07	1.89E-07	9.66E-09	0.00E+00	1.98E-07	5.65E-08	1.74E-09	0.00E+00	5.82E-08	2.14E-08	5.61E-10	0.00E+00	2.19E-08
4582	457573	3768272	1.912E-07	9.80E-09	0.00E+00	2.01E-07	1.91E-07	9.80E-09	0.00E+00	2.01E-07	5.73E-08	1.76E-09	0.00E+00	5.90E-08	2.17E-08	5.69E-10	0.00E+00	2.23E-08
4583	457582.9	3768272	1.937E-07	9.93E-09	0.00E+00	2.04E-07	1.94E-07	9.93E-09	0.00E+00	2.04E-07	5.80E-08	1.79E-09	0.00E+00	5.98E-08	2.20E-08	5.76E-10	0.00E+00	2.26E-08
4584	457592.9	3768272	1.959E-07	1.00E-08	0.00E+00	2.06E-07	1.96E-07	1.00E-08	0.00E+00	2.06E-07	5.87E-08	1.81E-09	0.00E+00	6.05E-08	2.22E-08	5.83E-10	0.00E+00	2.28E-08
4585	457602.9	3768272	1.978E-07	1.01E-08	0.00E+00	2.08E-07	1.98E-07	1.01E-08	0.00E+00	2.08E-07	5.92E-08	1.82E-09	0.00E+00	6.11E-08	2.24E-08	5.89E-10	0.00E+00	2.30E-08
4586	457612.8	3768272	1.996E-07	1.02E-08	0.00E+00	2.10E-07	2.00E-07	1.02E-08	0.00E+00	2.10E-07	5.98E-08	1.84E-09	0.00E+00	6.16E-08	2.26E-08	5.94E-10	0.00E+00	2.32E-08
4587	457622.8	3768272	2.011E-07	1.03E-08	0.00E+00	2.11E-07	2.01E-07	1.03E-08	0.00E+00	2.11E-07	6.02E-08	1.85E-09	0.00E+00	6.21E-08	2.28E-08	5.98E-10	0.00E+00	2.34E-08
4588	457632.8	3768272	2.022E-07	1.04E-08	0.00E+00	2.13E-07	2.02E-07	1.04E-08	0.00E+00	2.13E-07	6.06E-08	1.86E-09	0.00E+00	6.24E-08	2.29E-08	6.02E-10	0.00E+00	2.35E-08
4589	457642.8	3768272	2.031E-07	1.04E-08	0.00E+00	2.14E-07	2.03E-07	1.04E-08	0.00E+00	2.14E-07	6.08E-08	1.87E-09	0.00E+00	6.27E-08	2.30E-08	6.04E-10	0.00E+00	2.36E-08

4590	457652.7	3768272	2.036E-07	1.04E-08	0.00E+00	2.14E-07	2.04E-07	1.04E-08	0.00E+00	2.14E-07	6.10E-08	1.88E-09	0.00E+00	6.29E-08	2.31E-08	6.06E-10	0.00E+00	2.37E-08
4591	457662.7	3768272	2.037E-07	1.04E-08	0.00E+00	2.14E-07	2.04E-07	1.04E-08	0.00E+00	2.14E-07	6.10E-08	1.88E-09	0.00E+00	6.29E-08	2.31E-08	6.06E-10	0.00E+00	2.37E-08
4592	457672.7	3768272	2.032E-07	1.04E-08	0.00E+00	2.14E-07	2.03E-07	1.04E-08	0.00E+00	2.14E-07	6.09E-08	1.87E-09	0.00E+00	6.27E-08	2.31E-08	6.05E-10	0.00E+00	2.37E-08
4593	457682.6	3768272	2.023E-07	1.04E-08	0.00E+00	2.13E-07	2.02E-07	1.04E-08	0.00E+00	2.13E-07	6.06E-08	1.86E-09	0.00E+00	6.25E-08	2.29E-08	6.02E-10	0.00E+00	2.36E-08
4594	457692.6	3768272	2.007E-07	1.03E-08	0.00E+00	2.11E-07	2.01E-07	1.03E-08	0.00E+00	2.11E-07	6.01E-08	1.85E-09	0.00E+00	6.20E-08	2.28E-08	5.97E-10	0.00E+00	2.34E-08
4595	457284.8	3768259	3.701E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
4596	457281.1	3768250	3.913E-08	2.01E-09	0.00E+00	4.11E-08	3.91E-08	2.01E-09	0.00E+00	4.11E-08	1.17E-08	3.61E-10	0.00E+00	1.21E-08	4.44E-09	1.16E-10	0.00E+00	4.56E-09
4597	457277.4	3768241	4.14E-08	2.12E-09	0.00E+00	4.35E-08	4.14E-08	2.12E-09	0.00E+00	4.35E-08	1.24E-08	3.82E-10	0.00E+00	1.28E-08	4.70E-09	1.23E-10	0.00E+00	4.82E-09
4598	457333.7	3768282	4.234E-08	2.17E-09	0.00E+00	4.45E-08	4.23E-08	2.17E-09	0.00E+00	4.45E-08	1.27E-08	3.90E-10	0.00E+00	1.31E-08	4.80E-09	1.26E-10	0.00E+00	4.93E-09
4599	457343.6	3768282	4.619E-08	2.37E-09	0.00E+00	4.86E-08	4.62E-08	2.37E-09	0.00E+00	4.86E-08	1.38E-08	4.26E-10	0.00E+00	1.43E-08	5.24E-09	1.37E-10	0.00E+00	5.38E-09
4600	457353.6	3768282	5.074E-08	2.60E-09	0.00E+00	5.33E-08	5.07E-08	2.60E-09	0.00E+00	5.33E-08	1.52E-08	4.68E-10	0.00E+00	1.57E-08	5.76E-09	1.51E-10	0.00E+00	5.91E-09
4601	457363.6	3768282	5.599E-08	2.87E-09	0.00E+00	5.89E-08	5.60E-08	2.87E-09	0.00E+00	5.89E-08	1.68E-08	5.16E-10	0.00E+00	1.73E-08	6.35E-09	1.67E-10	0.00E+00	6.52E-09
4602	457373.6	3768282	6.187E-08	3.17E-09	0.00E+00	6.50E-08	6.19E-08	3.17E-09	0.00E+00	6.50E-08	1.85E-08	5.70E-10	0.00E+00	1.91E-08	7.02E-09	1.84E-10	0.00E+00	7.20E-09
4603	457383.5	3768282	6.823E-08	3.50E-09	0.00E+00	7.17E-08	6.82E-08	3.50E-09	0.00E+00	7.17E-08	2.04E-08	6.29E-10	0.00E+00	2.11E-08	7.74E-09	2.03E-10	0.00E+00	7.94E-09
4604	457393.5	3768282	7.49E-08	3.84E-09	0.00E+00	7.87E-08	7.49E-08	3.84E-09	0.00E+00	7.87E-08	2.24E-08	6.90E-10	0.00E+00	2.31E-08	8.50E-09	2.23E-10	0.00E+00	8.72E-09
4605	457403.5	3768282	8.175E-08	4.19E-09	0.00E+00	8.59E-08	8.18E-08	4.19E-09	0.00E+00	8.59E-08	2.45E-08	7.54E-10	0.00E+00	2.52E-08	9.28E-09	2.43E-10	0.00E+00	9.52E-09
4606	457413.4	3768282	8.863E-08	4.54E-09	0.00E+00	9.32E-08	8.86E-08	4.54E-09	0.00E+00	9.32E-08	2.65E-08	8.17E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
4607	457423.4	3768282	9.535E-08	4.89E-09	0.00E+00	1.00E-07	9.54E-08	4.89E-09	0.00E+00	1.00E-07	2.86E-08	8.79E-10	0.00E+00	2.94E-08	1.08E-08	2.84E-10	0.00E+00	1.11E-08
4608	457433.4	3768282	1.018E-07	5.22E-09	0.00E+00	1.07E-07	1.02E-07	5.22E-09	0.00E+00	1.07E-07	3.05E-08	9.38E-10	0.00E+00	3.14E-08	1.15E-08	3.03E-10	0.00E+00	1.19E-08
4609	457443.4	3768282	1.08E-07	5.54E-09	0.00E+00	1.14E-07	1.08E-07	5.54E-09	0.00E+00	1.14E-07	3.24E-08	9.96E-10	0.00E+00	3.33E-08	1.23E-08	3.21E-10	0.00E+00	1.26E-08
4610	457453.3	3768282	1.141E-07	5.85E-09	0.00E+00	1.20E-07	1.14E-07	5.85E-09	0.00E+00	1.20E-07	3.42E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.40E-10	0.00E+00	1.33E-08
4611	457463.3	3768282	1.2E-07	6.15E-09	0.00E+00	1.26E-07	1.20E-07	6.15E-09	0.00E+00	1.26E-07	3.60E-08	1.11E-09	0.00E+00	3.71E-08	1.36E-08	3.57E-10	0.00E+00	1.40E-08
4612	457473.3	3768282	1.257E-07	6.45E-09	0.00E+00	1.32E-07	1.26E-07	6.45E-09	0.00E+00	1.32E-07	3.77E-08	1.16E-09	0.00E+00	3.88E-08	1.43E-08	3.74E-10	0.00E+00	1.46E-08
4613	457483.2	3768282	1.311E-07	6.72E-09	0.00E+00	1.38E-07	1.31E-07	6.72E-09	0.00E+00	1.38E-07	3.93E-08	1.21E-09	0.00E+00	4.05E-08	1.49E-08	3.90E-10	0.00E+00	1.53E-08
4614	457493.2	3768282	1.363E-07	6.99E-09	0.00E+00	1.43E-07	1.36E-07	6.99E-09	0.00E+00	1.43E-07	4.08E-08	1.26E-09	0.00E+00	4.21E-08	1.55E-08	4.06E-10	0.00E+00	1.59E-08
4615	457503.2	3768282	1.412E-07	7.24E-09	0.00E+00	1.48E-07	1.41E-07	7.24E-09	0.00E+00	1.48E-07	4.23E-08	1.30E-09	0.00E+00	4.36E-08	1.60E-08	4.20E-10	0.00E+00	1.64E-08
4616	457513.1	3768282	1.458E-07	7.47E-09	0.00E+00	1.53E-07	1.46E-07	7.47E-09	0.00E+00	1.53E-07	4.37E-08	1.34E-09	0.00E+00	4.50E-08	1.65E-08	4.34E-10	0.00E+00	1.70E-08
4617	457523.1	3768282	1.5E-07	7.69E-09	0.00E+00	1.58E-07	1.50E-07	7.69E-09	0.00E+00	1.58E-07	4.49E-08	1.38E-09	0.00E+00	4.63E-08	1.70E-08	4.46E-10	0.00E+00	1.75E-08
4618	457533.1	3768282	1.54E-07	7.90E-09	0.00E+00	1.62E-07	1.54E-07	7.90E-09	0.00E+00	1.62E-07	4.61E-08	1.42E-09	0.00E+00	4.76E-08	1.75E-08	4.58E-10	0.00E+00	1.79E-08
4619	457543.1	3768282	1.577E-07	8.08E-09	0.00E+00	1.66E-07	1.58E-07	8.08E-09	0.00E+00	1.66E-07	4.72E-08	1.45E-09	0.00E+00	4.87E-08	1.79E-08	4.69E-10	0.00E+00	1.84E-08
4620	457553	3768282	1.609E-07	8.25E-09	0.00E+00	1.69E-07	1.61E-07	8.25E-09	0.00E+00	1.69E-07	4.82E-08	1.48E-09	0.00E+00	4.97E-08	1.82E-08	4.79E-10	0.00E+00	1.87E-08
4621	457563	3768282	1.638E-07	8.39E-09	0.00E+00	1.72E-07	1.64E-07	8.39E-09	0.00E+00	1.72E-07	4.90E-08	1.51E-09	0.00E+00	5.06E-08	1.86E-08	4.87E-10	0.00E+00	1.91E-08
4622	457573	3768282	1.665E-07	8.53E-09	0.00E+00	1.75E-07	1.66E-07	8.53E-09	0.00E+00	1.75E-07	4.99E-08	1.53E-09	0.00E+00	5.14E-08	1.89E-08	4.95E-10	0.00E+00	1.94E-08
4623	457582.9	3768282	1.691E-07	8.67E-09	0.00E+00	1.78E-07	1.69E-07	8.67E-09	0.00E+00	1.78E-07	5.06E-08	1.56E-09	0.00E+00	5.22E-08	1.92E-08	5.03E-10	0.00E+00	1.97E-08
4624	457592.9	3768282	1.714E-07	8.79E-09	0.00E+00	1.80E-07	1.71E-07	8.79E-09	0.00E+00	1.80E-07	5.13E-08	1.58E-09	0.00E+00	5.29E-08	1.94E-08	5.10E-10	0.00E+00	2.00E-08
4625	457602.9	3768282	1.735E-07	8.90E-09	0.00E+00	1.82E-07	1.74E-07	8.90E-09	0.00E+00	1.82E-07	5.20E-08	1.60E-09	0.00E+00	5.36E-08	1.97E-08	5.16E-10	0.00E+00	2.02E-08
4626	457612.8	3768282	1.754E-07	8.99E-09	0.00E+00	1.84E-07	1.75E-07	8.99E-09	0.00E+00	1.84E-07	5.25E-08	1.62E-09	0.00E+00	5.42E-08	1.99E-08	5.22E-10	0.00E+00	2.04E-08
4627	457622.8	3768282	1.77E-07	9.08E-09	0.00E+00	1.86E-07	1.77E-07	9.08E-09	0.00E+00	1.86E-07	5.30E-08	1.63E-09	0.00E+00	5.47E-08	2.01E-08	5.27E-10	0.00E+00	2.06E-08
4628	457632.8	3768282	1.784E-07	9.15E-09	0.00E+00	1.88E-07	1.78E-07	9.15E-09	0.00E+00	1.88E-07	5.34E-08	1.64E-09	0.00E+00	5.51E-08	2.02E-08	5.31E-10	0.00E+00	2.08E-08
4629	457642.8	3768282	1.795E-07	9.20E-09	0.00E+00	1.89E-07	1.79E-07	9.20E-09	0.00E+00	1.89E-07	5.38E-08	1.65E-09	0.00E+00	5.54E-08	2.04E-08	5.34E-10	0.00E+00	2.09E-08
4630	457652.7	3768282	1.803E-07	9.24E-09	0.00E+00	1.90E-07	1.80E-07	9.24E-09	0.00E+00	1.90E-07	5.40E-08	1.66E-09	0.00E+00	5.57E-08	2.05E-08	5.36E-10	0.00E+00	2.10E-08
4631	457662.7	3768282	1.807E-07	9.26E-09	0.00E+00	1.90E-07	1.81E-07	9.26E-09	0.00E+00	1.90E-07	5.41E-08	1.67E-09	0.00E+00	5.58E-08	2.05E-08	5.38E-10	0.00E+00	2.10E-08
4632	457672.7	3768282	1.805E-07	9.26E-09	0.00E+00	1.90E-07	1.81E-07	9.26E-09	0.00E+00	1.90E-07	5.41E-08	1.66E-09	0.00E+00	5.57E-08	2.05E-08	5.37E-10	0.00E+00	2.10E-08
4633	457682.6	3768282	1.8E-07	9.23E-09	0.00E+00	1.89E-07	1.80E-07	9.23E-09	0.00E+00	1.89E-07	5.39E-08	1.66E-09	0.00E+00	5.56E-08	2.04E-08	5.36E-10	0.00E+00	2.10E-08
4634	457692.6	3768282	1.791E-07	9.18E-09	0.00E+00	1.88E-07	1.79E-07	9.18E-09	0.00E+00	1.88E-07	5.36E-08	1.65E-09	0.00E+00	5.53E-08	2.03E-08	5.33E-10	0.00E+00	2.08E-08
4635	457702.6	3768282	1.777E-07	9.11E-09	0.00E+00	1.87E-07	1.78E-07	9.11E-09	0.00E+00	1.87E-07	5.32E-08	1.64E-09	0.00E+00	5.49E-08	2.02E-08	5.29E-10	0.00E+00	2.07E-08
4636	457289.9	3768278	3.222E-08	1.65E-09	0.00E+00	3.39E-08	3.22E-08	1.65E-09	0.00E+00	3.39E-08	9.65E-09	2.97E-10	0.00E+00	9.95E-09	3.66E-09	9.59E-11	0.00E+00	3.75E-09
4637	457277.9	3768266	3.302E-08	1.69E-09	0.00E+00	3.47E-08	3.30E-08	1.69E-09	0.00E+00	3.47E-08	9.89E-09	3.04E-10	0.00E+00	1.02E-08	3.75E-09	9.83E-11	0.00E+00	3.84E-09
4638	457270.8	3768249	3.642E-08	1.87E-09	0.00E+00	3.83E-08	3.64E-08	1.87E-09	0.00E+00	3.83E-08	1.09E-08	3.36E-10	0.00E+00	1.12E-08	4.13E-09	1.08E-10	0.00E+00	4.24E-09
4639	457333.7	3768292	3.799E-08	1.95E-09	0.00E+00	3.99E-08	3.80E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
4640	457343.7	3768292	4.107E-08	2.11E-09	0.00E+00	4.32E-08	4.11E-08	2.11E-09	0.00E+00	4.32E-08	1.23E-08	3.79E-10	0.00E+00	1.27E-08	4.66E-09	1.22E-10	0.00E+00	4.78E-09
4641	457353.6	3768292	4.466E-08	2.29E-09	0.00E+00	4.70E-08	4.47E-08	2.29E-09	0.00E+00	4.70E-08	1.34E-08	4.12E-10	0.00E+00	1.38E-08	5.07E-09	1.33E-10	0.00E+00	5.20E-09
4642	457363.6	3768292	4.879E-08	2.50E-09	0.00E+00	5.13E-08	4.88E-08	2.50E-09	0.00E+00	5.13E-08	1.46E-08	4.50E-10	0.00E+00	1.51E-08	5.54E-09	1.45E-10	0.00E+00	5.68E-09
4643	457373.6	3768292	5.343E-08	2.74E-09	0.00E+00	5.62E-08	5.34E-08	2.74E-09	0.00E+00	5.62E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.06E-09	1.59E-10	0.00E+00	6.22E-09
4644	457383.5	3768292	5.85E-08	3.00E-09	0.00E+00	6.15E-08	5.85E-08	3.00E-09	0.00E+00	6.15E-08	1.75E-08	5.39E-10	0.00E+00	1.81E-08	6.64E-09	1.74E-10	0.00E+00	6.81E-09
4645	457393.5	3768292	6.387E-08	3.27E-09	0.00E+00	6.71E-08	6.39E-08	3.27E-09	0.00E+00	6.71E-08	1.91E-08	5.89E-10	0.00E+00	1.97E-08	7.25E-09	1.90E-10	0.00E+00	7.44E-09
4646	457403.5	3768292	6.946E-08	3.56E-09	0.00E+00	7.30E-08	6.95E-08	3.56E-09	0.00E+00	7.30E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.88E-09	2.07E-10	0.00E+00	8.09E-09
4647	457413.4	3768292	7.517E-08	3.85E-09	0.00E+00	7.90E-08	7.52E-08	3.85E-09	0.00E+00	7.90E-08	2.25E-08	6.93E-10	0.00E+00	2.32E-08	8.53E-09	2.24E-10	0.00E+00	8.75E-09
4648	457423.4	3768292	8.084E-08	4.14E-09	0.00E+00	8.50E-08	8.08E-08	4.14E-09	0.00E+00	8.50E-08	2.42E-08	7.45E-10	0.00E+00	2.50E-08	9.17E-09	2.41E-10	0.00E+00	9.41E-09
4649	457433.4	3768292	8.642E-08	4.43E-09	0.00E+00	9.09E-08	8.64E-08	4.43E-09	0.00E+00	9.09E-08	2.59E-08	7.97E-10	0.00E+00	2.67E-08	9.80E-09	2.57E-10	0.00E+00	1.01E-08
4650	457443.4	3768292	9.188E-08	4.71E-09	0.00E+00	9.66E-08	9.19E-08	4.71E-09	0.00E+00	9.66E-08	2.75E-08	8.47E-10	0.00E+00	2.84E-08	1.04E-08	2.73E-10	0.00E+00	1.07E-08
4651	457453.3	3768292	9.73E-08	4.99E-09	0.00E+00	1.02E-07	9.73E-08	4.99E-09	0.00E+00	1.02E-07	2.91E-08	8.97E-10	0.00E+00	3.00E-08	1.10E-08	2.90E-10	0.00E+00	1.13E-08
4652	457463.3	3768292	1.027E-07	5.26E-09	0.00E+00	1.08E-07	1.03E-07	5.26E-09	0.00E+00	1.08E-07	3.07E-08	9.46E-10	0.00E+00	3.17E-08	1.16E-08	3.05E-10	0.00E+00	1.20E-08
4653	457473.3	3768292	1.078E-07	5.53E-09	0.00E+00	1.13E-07	1.08E-07	5.53E-09	0.00E+00	1.13E-07	3.23E-08	9.94E-10	0.00E+00	3.33E-08	1.22E-08	3.21E-10	0.00E+00	1.26E-08
4654	457483.2	3768292	1.128E-07	5.78E-09	0.00E+00	1.19E-07	1.13E-07	5.78E-09	0.00E+00	1.19E-07	3.38E-08	1.04E-09	0.00E+00	3.48E-08	1.28E-08	3.36E-10	0.00E+00	1.31E-08
4655	457493.2	3768292	1.175E-07	6.03E-09	0.00E+00	1.24E-07	1.18E-07	6.03E-09	0.00E+00	1.24E-07	3.52E-08	1.08E-09	0.00E+00	3.63E-08	1.33E-08	3.50E-10	0.00E+00	1.37E-08
4656	457503.2	3768292	1.22E-07	6.26E-09	0.00E+00	1.28E-07	1.22E-07	6.26E-09	0.00E+00	1.28E-07	3.65E-08	1.12E-09	0.00E+00	3.77E-08	1.38E-08	3.63E-10	0.00E+00	1.42E-08
4657	457513.1	3768292	1.263E-07	6.47E-09	0.00E+00	1.33E-07	1.26E-07	6.47E-09	0.00E+00	1.33E-07	3.78E-08	1.16E-09	0.00E+00	3.90E-08	1.43E-08	3.76E-10	0.00E+00	1.47E-08
4658	457523.1	3768292	1.303E-07	6.68E-09	0.00E+00	1.37E-07	1.30E-07	6.68E-09	0.00E+00	1.37E-07	3.90E-08	1.20E-09	0.00E+00	4.02E-08	1.48E-08	3.88E-10	0.00E+00	1.52E-08
4659	457533.1	3768292	1.34E-07	6.87E-09	0.00E+00	1.41E-07	1.34E-07	6.87E-09	0.00E+00	1.41E-07	4.01E-08	1.24E-09	0.00E+00	4.14E-08	1.52E-08	3.99E-10	0.00E+00	1.56E-08
4660	457543.1	3768292	1.375E-07	7.05E-09	0.00E+00	1.45E-07	1.38E-07	7.05E-09	0.00E+00	1.45E-07	4.12E-08	1.27E-09	0.00E+00	4.25E-08	1.56E-08	4.09E-10	0.00E+00	1.60E-08
4661	457553	3768292	1.406E-07	7.21E-09	0.00E+00	1.48E-07	1.41E-07	7.21E-09	0.00E+00	1.48E-07	4.21E-08	1.30E-09	0.00E+00	4.34E-08	1.60E-08	4.18E-10	0.00E+00	1.64E-08
4662	457563	3768292	1.435E-07	7.36E-09	0.00E+00	1.51E-07	1.43E-07	7.36E-09	0.00E+00	1.51E-07	4.30E-08	1.32E-09	0.00E+00	4.43E-08	1.63E-08	4.27E-10	0.00E+00	1.67E-08
4663	457573	3768292	1.462E-07	7.49E-09	0.00E+00	1.54E-07	1.46E-07	7.49E-09	0.00E+00	1.54E-07	4.38E-08	1.35E-09	0.00E+00	4.51E-08	1.66E-08	4.35E-10	0.00E+00	1.70E-08
4664	457582.9	3768292	1.488E-07	7.63E-09	0.00E+00	1.56E-07	1.49E-07	7.63E-09	0.00E+00	1.56E-07	4.46E-08	1.37E-09	0.00E+00	4.59E-08	1.69E-08	4.43E-10	0.00E+00	1.73E-08
4665	457592.9	3768292	1.512E-07	7.75E-09	0.00E+00	1.59E-07	1.51E-07	7.75E-09	0.00E+00	1.59E-07	4.53E-08	1.39E-09	0.00E+00	4.67E-08	1.72E-08	4.50E-10	0.00E+00	1.76E-08
4666	457602.9	3768292	1.534E-07	7.86E-09	0.00E+00	1.61E-07	1.53E-07	7.86E-09	0.00E+00	1.61E-07	4.59E-08	1.41E-09	0.00E+00	4.74E-08	1.74E-08	4.56E-10	0.00E+00	1.79E-08
4667	457612.8	3768292	1.553E-07	7.96E-09	0.00E+00	1.63E-07	1.55E-07	7.96E-09	0.00E+00	1.63E-07	4.65E-08	1.43E-09	0.00E+00	4.79E-08	1.76E-08	4.62E-10	0.00E+00	1.81E-08
4668	457622.8	3768292	1.569E-07	8.05E-09	0.00E+00	1.65E-07	1.57E-07	8.05E-09	0.00E+00	1.65E-07	4.70E-08	1.45E-09	0.00E+00	4.85E-08	1.78E-08	4.67E-10	0.00E+00	1.83E-08
4669	457632.8	3768292	1.584E-07	8.12E-09	0.00E+00	1.67E-07	1.58E-07	8.12E-09	0.00E+00	1.67E-07	4.74E-08	1.46E-09	0.00E+00	4.89E-08	1.80E-08	4.71E-10	0.00E+00	1.84E-08
4670	457642.8	3768292	1.597E-07	8.18E-09	0.00E+00	1.68E-07	1.60E-07	8.18E-09	0.00E+00	1.68E-07	4.78E-08	1.47E-09	0.00E+00	4.93E-08	1.81E-08	4.75E-10	0.00E+00	1.86E-08
4671	457652.7	3768292	1.607E-07	8.24E-09	0.00E+00	1.69E-07	1.61E-07	8.24E-09	0.00E+00	1.69E-07	4.81E-08	1.48E-09	0.00E+00	4.96E-08	1.82E-08	4.78E-10	0.00E+00	1.87E-08
4672	457662.7	3768292	1.613E-07	8.27E-09	0.00E+00	1.70E-07	1.61E-07	8.27E-09	0.00E+00	1.70E-07	4.83E-08	1.49E-09	0.00E+00	4.98E-08	1.83E-08	4.80E-10	0.00E+00	1.88E-08
4673	457672.7	3768292	1.615E-07	8.28E-09	0.00E+00	1.70E-07	1.62E-07	8.28E-09	0.00E+00	1.70E-07	4.84E-08	1.49E-09	0.00E+00	4.99E-08	1.83E-08	4.81E-10	0.00E+00	1.88E-08
4674	457682.6	3768292	1.614E-07	8.28E-09	0.00E+00	1.70E-07	1.61E-07	8.28E-09	0.00E+00	1.70E-07	4.83E-08	1.49E-09	0.00E+00	4.98E-08	1.83E-08	4.80E-10	0.00E+00	1.88E-08
4675	457692.6	3768292	1.61E-07	8.25E-09	0.00E+00	1.69E-07	1.61E-07	8.25E-09	0.00E+00	1.69E-07	4.82E-08	1.48E-09	0.00E+00	4.97E-08	1.83E-08	4.79E-10	0.00E+00	1.87E-08
4676	457702.6	3768292	1.603E-07	8.22E-09	0.00E+00	1.69E-07	1.60E-07	8.22E-09	0.00E+00	1.69E-07	4.80E-08	1.48E-09	0.00E+00	4.95E-08	1.82E-08	4.77E-10	0.00E+00	1.87E-08
4677	457282.6	3768285	2.912E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.72E-09	2.68E-10	0.00E+00	8.99E-09	3.30E-09	8.66E-11	0.00E+00	3.39E-09
4678	457270.9	3768274	2.977E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.92E-09	2.74E-10	0.00E+00	9.19E-09	3.38E-09	8.86E-11	0.00E+00	3.47E-09
4679	457264	3768257	3.251E-08	1.67E-09	0.00E+00	3.42E-08	3.25E-08	1.67E-09	0.00E+00	3.42E-08	9.74E-09	3.00E-10	0.00E+00	1.00E-08	3.69E-09	9.67E-11	0.00E+00	3.78E-09
4680	457333.7	3768302	3.442E-08	1.76E-09	0.00E+00	3.62E-08	3.44E-08	1.76E-09	0.00E+00	3.62E-08	1.03E-08	3.17E-10	0.00E+00	1.06E-08	3.90E-09	1.02E-10	0.00E+00	4.01E-09
4681	457343.7	3768302	3.693E-08	1.89E-09	0.00E+00	3.88E-08	3.69E-08	1.89E-09	0.00E+00	3.88E-08	1.11E-08	3.40E-10	0.00E+00	1.14E-08	4.19E-09	1.10E-10	0.00E+00	4.30E-09
4682	457353.6	3768302	3.983E-08	2.04E-09	0.00E+00	4.19E-08	3.98E-08	2.04E-09	0.00E+00	4.19E-08	1.19E-08	3.67E-10	0.00E+00	1.23E-08	4.52E-09	1.19E-10	0.00E+00	4.64E-09
4683	457363.6	3768302	4.314E-08	2.21E-09	0.00E+00	4.53E-08	4.31E-08	2.21E-09	0.00E+00	4.53E-08	1.29E-08	3.98E-10	0.00E+00	1.33E-08	4.89E-09	1.28E-10	0.00E+00	5.02E-09
4684	457373.6	3768302	4.685E-08	2.40E-09	0.00E+00	4.93E-08	4.69E-08	2.40E-09	0.00E+00	4.93E-08	1.40E-08	4.32E-10	0.00E+00	1.45E-08	5.32E-09	1.39E-10	0.00E+00	5.45E-09
4685	457383.5	3768302	5.095E-08	2.61E-09	0.00E+00	5.36E-08	5.09E-08	2.61E-09	0.00E+00	5.36E-08	1.53E-08	4.70E-10	0.00E+00	1.57E-08	5.78E-09	1.52E-10	0.00E+00	5.93E-09
4686	457393.5	3768302	5.531E-08	2.84E-09	0.00E+00	5.81E-08	5.53E-08	2.84E-09	0.00E+00	5.81E-08	1.66E-08	5.10E-10	0.00E+00	1.71E-08	6.28E-09	1.65E-10	0.00E+00	6.44E-09
4687	457403.5	3768302	5.987E-08	3.07E-09	0.00E+00	6.29E-08	5.99E-08	3.07E-09	0.00E+00	6.29E-08	1.79E-08	5.52E-10	0.00E+00	1.85E-08	6.79E-09	1.78E-10	0.00E+00	6.97E-09
4688	457413.4	3768302	6.458E-08	3.31E-09	0.00E+00	6.79E-08	6.46E-08	3.31E-09	0.00E+00	6.79E-08	1.93E-08	5.95E-10	0.00E+00	1.99E-08	7.33E-09	1.92E-10	0.00E+00	7.52E-09
4689	457423.4	3768302	6.939E-08	3.56E-09	0.00E+00	7.29E-08	6.94E-08	3.56E-09	0.00E+00	7.29E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.87E-09	2.06E-10	0.00E+00	8.08E-09
4690	457433.4	3768302	7.425E-08	3.81E-09	0.00E+00	7.81E-08	7.43E-08	3.81E-09	0.00E+00	7.81E-08	2.22E-08	6.84E-10	0.00E+00	2.29E-08	8.42E-09	2.21E-10	0.00E+00	8.65E-09
4691	457443.4	3768302	7.908E-08	4.05E-09	0.00E+00	8.31E-08	7.91E-08	4.05E-09	0.00E+00	8.31E-08	2.37E-08	7.29E-10	0.00E+00	2.44E-08	8.97E-09	2.35E-10	0.00E+00	9.21E-09
4692	457453.3	3768302	8.389E-08	4.30E-09	0.00E+00	8.82E-08	8.39E-08	4.30E-09	0.00E+00	8.82E-08	2.51E-08	7.73E-10	0.00E+00	2.59E-08	9.52E-09	2.50E-10	0.00E+00	9.77E-09
4693	457463.3	3768302	8.866E-08	4.55E-09	0.00E+00	9.32E-08	8.87E-08	4.55E-09	0.00E+00	9.32E-08	2.66E-08	8.17E-10	0.00E+00	2.74E-08	1.01E-08	2.64E-10	0.00E+00	1.03E-08
4694	457473.3	3768302	9.33E-08	4.78E-09	0.00E+00	9.81E-08	9.33E-08	4.78E-09	0.00E+00	9.81E-08	2.79E-08	8.60E-10	0.00E+00	2.88E-08	1.06E-08	2.78E-10	0.00E+00	1.09E-08
4695	457483.2	3768302	9.779E-08	5.01E-09	0.00E+00	1.03E-07	9.78E-08	5.01E-09	0.00E+00	1.03E-07	2.93E-08	9.01E-10	0.00E+00	3.02E-08	1.11E-08	2.91E-10	0.00E+00	1.14E-08
4696	457493.2	3768302	1.021E-07	5.24E-09	0.00E+00	1.07E-07	1.02E-07	5.24E-09	0.00E+00	1.07E-07	3.06E-08	9.41E-10	0.00E+00	3.15E-08	1.16E-08	3.04E-10	0.00E+00	1.19E-08
4697	457503.2	3768302	1.063E-07	5.45E-09	0.00E+00	1.12E-07	1.06E-07	5.45E-09	0.00E+00	1.12E-07	3.18E-08	9.80E-10	0.00E+00	3.28E-08	1.21E-08	3.16E-10	0.00E+00	1.24E-08
4698	457513.2	3768302	1.102E-07	5.65E-09	0.00E+00	1.16E-07	1.10E-07	5.65E-09	0.00E+00	1.16E-07	3.30E-08	1.02E-09	0.00E+00	3.40E-08	1.25E-08	3.28E-10	0.00E+00	1.28E-08
4699	457523.1	3768302	1.139E-07	5.84E-09	0.00E+00	1.20E-07	1.14E-07	5.84E-09	0.00E+00	1.20E-07	3.41E-08	1.05E-09	0.00E+00	3.52E-08	1.29E-08	3.39E-10	0.00E+00	1.33E-08
4700	457533.1	3768302	1.174E-07	6.02E-09	0.00E+00	1.23E-07	1.17E-07	6.02E-09	0.00E+00	1.23E-07	3.51E-08	1.08E-09	0.00E+00	3.62E-08	1.33E-08	3.49E-10	0.00E+00	1.37E-08
4701	457543.1	3768302	1.206E-07	6.18E-09	0.00E+00	1.27E-07	1.21E-07	6.18E-09	0.00E+00	1.27E-07	3.61E-08	1.11E-09	0.00E+00	3.72E-08	1.37E-08	3.59E-10	0.00E+00	1.40E-08

4702	457553	3768302	1.237E-07	6.34E-09	0.00E+00	1.30E-07	1.24E-07	6.34E-09	0.00E+00	1.30E-07	3.70E-08	1.14E-09	0.00E+00	3.82E-08	1.40E-08	3.68E-10	0.00E+00	1.44E-08
4703	457563	3768302	1.266E-07	6.49E-09	0.00E+00	1.33E-07	1.27E-07	6.49E-09	0.00E+00	1.33E-07	3.79E-08	1.17E-09	0.00E+00	3.91E-08	1.44E-08	3.77E-10	0.00E+00	1.47E-08
4704	457573	3768302	1.293E-07	6.63E-09	0.00E+00	1.36E-07	1.29E-07	6.63E-09	0.00E+00	1.36E-07	3.87E-08	1.19E-09	0.00E+00	3.99E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
4705	457582.9	3768302	1.319E-07	6.76E-09	0.00E+00	1.39E-07	1.32E-07	6.76E-09	0.00E+00	1.39E-07	3.95E-08	1.22E-09	0.00E+00	4.07E-08	1.50E-08	3.92E-10	0.00E+00	1.54E-08
4706	457592.9	3768302	1.343E-07	6.88E-09	0.00E+00	1.41E-07	1.34E-07	6.88E-09	0.00E+00	1.41E-07	4.02E-08	1.24E-09	0.00E+00	4.14E-08	1.52E-08	3.99E-10	0.00E+00	1.56E-08
4707	457602.9	3768302	1.364E-07	6.99E-09	0.00E+00	1.43E-07	1.36E-07	6.99E-09	0.00E+00	1.43E-07	4.09E-08	1.26E-09	0.00E+00	4.21E-08	1.55E-08	4.06E-10	0.00E+00	1.59E-08
4708	457612.9	3768302	1.383E-07	7.09E-09	0.00E+00	1.45E-07	1.38E-07	7.09E-09	0.00E+00	1.45E-07	4.14E-08	1.27E-09	0.00E+00	4.27E-08	1.57E-08	4.11E-10	0.00E+00	1.61E-08
4709	457622.8	3768302	1.399E-07	7.17E-09	0.00E+00	1.47E-07	1.40E-07	7.17E-09	0.00E+00	1.47E-07	4.19E-08	1.29E-09	0.00E+00	4.32E-08	1.59E-08	4.16E-10	0.00E+00	1.63E-08
4710	457632.8	3768302	1.414E-07	7.25E-09	0.00E+00	1.49E-07	1.41E-07	7.25E-09	0.00E+00	1.49E-07	4.24E-08	1.30E-09	0.00E+00	4.37E-08	1.60E-08	4.21E-10	0.00E+00	1.65E-08
4711	457642.8	3768302	1.428E-07	7.32E-09	0.00E+00	1.50E-07	1.43E-07	7.32E-09	0.00E+00	1.50E-07	4.28E-08	1.32E-09	0.00E+00	4.41E-08	1.62E-08	4.25E-10	0.00E+00	1.66E-08
4712	457652.7	3768302	1.439E-07	7.38E-09	0.00E+00	1.51E-07	1.44E-07	7.38E-09	0.00E+00	1.51E-07	4.31E-08	1.33E-09	0.00E+00	4.44E-08	1.63E-08	4.28E-10	0.00E+00	1.68E-08
4713	457662.7	3768302	1.448E-07	7.42E-09	0.00E+00	1.52E-07	1.45E-07	7.42E-09	0.00E+00	1.52E-07	4.34E-08	1.33E-09	0.00E+00	4.47E-08	1.64E-08	4.31E-10	0.00E+00	1.69E-08
4714	457672.7	3768302	1.454E-07	7.45E-09	0.00E+00	1.53E-07	1.45E-07	7.45E-09	0.00E+00	1.53E-07	4.35E-08	1.34E-09	0.00E+00	4.49E-08	1.65E-08	4.33E-10	0.00E+00	1.69E-08
4715	457682.6	3768302	1.456E-07	7.47E-09	0.00E+00	1.53E-07	1.46E-07	7.47E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.50E-08	1.65E-08	4.33E-10	0.00E+00	1.70E-08
4716	457692.6	3768302	1.457E-07	7.47E-09	0.00E+00	1.53E-07	1.46E-07	7.47E-09	0.00E+00	1.53E-07	4.36E-08	1.34E-09	0.00E+00	4.50E-08	1.65E-08	4.33E-10	0.00E+00	1.70E-08
4717	457702.6	3768302	1.454E-07	7.45E-09	0.00E+00	1.53E-07	1.45E-07	7.45E-09	0.00E+00	1.53E-07	4.35E-08	1.34E-09	0.00E+00	4.49E-08	1.65E-08	4.33E-10	0.00E+00	1.69E-08
4718	457283.5	3768296	2.7E-08	1.38E-09	0.00E+00	2.84E-08	2.70E-08	1.38E-09	0.00E+00	2.84E-08	8.09E-09	2.49E-10	0.00E+00	8.34E-09	3.06E-09	8.04E-11	0.00E+00	3.14E-09
4719	457264	3768281	2.707E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.11E-09	2.50E-10	0.00E+00	8.36E-09	3.07E-09	8.05E-11	0.00E+00	3.15E-09
4720	457257.2	3768265	2.932E-08	1.50E-09	0.00E+00	3.08E-08	2.93E-08	1.50E-09	0.00E+00	3.08E-08	8.78E-09	2.70E-10	0.00E+00	9.05E-09	3.33E-09	8.73E-11	0.00E+00	3.41E-09
4721	457250.4	3768249	3.178E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.52E-09	2.93E-10	0.00E+00	9.81E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
4722	457333.7	3768312	3.14E-08	1.61E-09	0.00E+00	3.30E-08	3.14E-08	1.61E-09	0.00E+00	3.30E-08	9.41E-09	2.89E-10	0.00E+00	9.70E-09	3.56E-09	9.35E-11	0.00E+00	3.66E-09
4723	457343.7	3768312	3.349E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.97E-11	0.00E+00	3.90E-09
4724	457353.6	3768312	3.587E-08	1.84E-09	0.00E+00	3.77E-08	3.59E-08	1.84E-09	0.00E+00	3.77E-08	1.07E-08	3.31E-10	0.00E+00	1.11E-08	4.07E-09	1.07E-10	0.00E+00	4.18E-09
4725	457363.6	3768312	3.858E-08	1.98E-09	0.00E+00	4.06E-08	3.86E-08	1.98E-09	0.00E+00	4.06E-08	1.16E-08	3.56E-10	0.00E+00	1.19E-08	4.38E-09	1.15E-10	0.00E+00	4.49E-09
4726	457373.6	3768312	4.161E-08	2.13E-09	0.00E+00	4.37E-08	4.16E-08	2.13E-09	0.00E+00	4.37E-08	1.25E-08	3.84E-10	0.00E+00	1.28E-08	4.72E-09	1.24E-10	0.00E+00	4.84E-09
4727	457383.5	3768312	4.496E-08	2.30E-09	0.00E+00	4.73E-08	4.50E-08	2.30E-09	0.00E+00	4.73E-08	1.35E-08	4.14E-10	0.00E+00	1.39E-08	5.10E-09	1.34E-10	0.00E+00	5.23E-09
4728	457393.5	3768312	4.854E-08	2.49E-09	0.00E+00	5.10E-08	4.85E-08	2.49E-09	0.00E+00	5.10E-08	1.45E-08	4.47E-10	0.00E+00	1.50E-08	5.51E-09	1.44E-10	0.00E+00	5.65E-09
4729	457403.5	3768312	5.228E-08	2.68E-09	0.00E+00	5.50E-08	5.23E-08	2.68E-09	0.00E+00	5.50E-08	1.57E-08	4.82E-10	0.00E+00	1.61E-08	5.93E-09	1.56E-10	0.00E+00	6.09E-09
4730	457413.5	3768312	5.62E-08	2.88E-09	0.00E+00	5.91E-08	5.62E-08	2.88E-09	0.00E+00	5.91E-08	1.68E-08	5.18E-10	0.00E+00	1.74E-08	6.38E-09	1.67E-10	0.00E+00	6.54E-09
4731	457423.4	3768312	6.027E-08	3.09E-09	0.00E+00	6.34E-08	6.03E-08	3.09E-09	0.00E+00	6.34E-08	1.81E-08	5.56E-10	0.00E+00	1.86E-08	6.84E-09	1.79E-10	0.00E+00	7.02E-09
4732	457433.4	3768312	6.45E-08	3.31E-09	0.00E+00	6.78E-08	6.45E-08	3.31E-09	0.00E+00	6.78E-08	1.93E-08	5.95E-10	0.00E+00	1.99E-08	7.32E-09	1.92E-10	0.00E+00	7.51E-09
4733	457443.4	3768312	6.874E-08	3.52E-09	0.00E+00	7.23E-08	6.87E-08	3.52E-09	0.00E+00	7.23E-08	2.06E-08	6.34E-10	0.00E+00	2.12E-08	7.80E-09	2.05E-10	0.00E+00	8.00E-09
4734	457453.3	3768312	7.3E-08	3.74E-09	0.00E+00	7.67E-08	7.30E-08	3.74E-09	0.00E+00	7.67E-08	2.19E-08	6.73E-10	0.00E+00	2.25E-08	8.28E-09	2.17E-10	0.00E+00	8.50E-09
4735	457463.3	3768312	7.721E-08	3.96E-09	0.00E+00	8.12E-08	7.72E-08	3.96E-09	0.00E+00	8.12E-08	2.31E-08	7.12E-10	0.00E+00	2.38E-08	8.76E-09	2.30E-10	0.00E+00	8.99E-09
4736	457473.3	3768312	8.137E-08	4.17E-09	0.00E+00	8.55E-08	8.14E-08	4.17E-09	0.00E+00	8.55E-08	2.44E-08	7.50E-10	0.00E+00	2.51E-08	9.23E-09	2.42E-10	0.00E+00	9.47E-09
4737	457483.2	3768312	8.542E-08	4.38E-09	0.00E+00	8.98E-08	8.54E-08	4.38E-09	0.00E+00	8.98E-08	2.56E-08	7.87E-10	0.00E+00	2.64E-08	9.69E-09	2.54E-10	0.00E+00	9.95E-09
4738	457493.2	3768312	8.937E-08	4.58E-09	0.00E+00	9.40E-08	8.94E-08	4.58E-09	0.00E+00	9.40E-08	2.68E-08	8.24E-10	0.00E+00	2.76E-08	1.01E-08	2.66E-10	0.00E+00	1.04E-08
4739	457503.2	3768312	9.318E-08	4.78E-09	0.00E+00	9.80E-08	9.32E-08	4.78E-09	0.00E+00	9.80E-08	2.79E-08	8.59E-10	0.00E+00	2.88E-08	1.06E-08	2.77E-10	0.00E+00	1.08E-08
4740	457513.2	3768312	9.681E-08	4.96E-09	0.00E+00	1.02E-07	9.68E-08	4.96E-09	0.00E+00	1.02E-07	2.90E-08	8.92E-10	0.00E+00	2.99E-08	1.10E-08	2.88E-10	0.00E+00	1.13E-08
4741	457523.1	3768312	1.002E-07	5.13E-09	0.00E+00	1.05E-07	1.00E-07	5.13E-09	0.00E+00	1.05E-07	3.00E-08	9.23E-10	0.00E+00	3.09E-08	1.14E-08	2.98E-10	0.00E+00	1.17E-08
4742	457533.1	3768312	1.034E-07	5.30E-09	0.00E+00	1.09E-07	1.03E-07	5.30E-09	0.00E+00	1.09E-07	3.10E-08	9.53E-10	0.00E+00	3.19E-08	1.17E-08	3.08E-10	0.00E+00	1.20E-08
4743	457543.1	3768312	1.064E-07	5.46E-09	0.00E+00	1.12E-07	1.06E-07	5.46E-09	0.00E+00	1.12E-07	3.19E-08	9.81E-10	0.00E+00	3.29E-08	1.21E-08	3.17E-10	0.00E+00	1.24E-08
4744	457553	3768312	1.094E-07	5.61E-09	0.00E+00	1.15E-07	1.09E-07	5.61E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.26E-10	0.00E+00	1.27E-08
4745	457563	3768312	1.123E-07	5.76E-09	0.00E+00	1.18E-07	1.12E-07	5.76E-09	0.00E+00	1.18E-07	3.36E-08	1.03E-09	0.00E+00	3.47E-08	1.27E-08	3.34E-10	0.00E+00	1.31E-08
4746	457573	3768312	1.149E-07	5.89E-09	0.00E+00	1.21E-07	1.15E-07	5.89E-09	0.00E+00	1.21E-07	3.44E-08	1.06E-09	0.00E+00	3.55E-08	1.30E-08	3.42E-10	0.00E+00	1.34E-08
4747	457582.9	3768312	1.174E-07	6.02E-09	0.00E+00	1.23E-07	1.17E-07	6.02E-09	0.00E+00	1.23E-07	3.52E-08	1.08E-09	0.00E+00	3.63E-08	1.33E-08	3.49E-10	0.00E+00	1.37E-08
4748	457592.9	3768312	1.198E-07	6.14E-09	0.00E+00	1.26E-07	1.20E-07	6.14E-09	0.00E+00	1.26E-07	3.59E-08	1.10E-09	0.00E+00	3.70E-08	1.36E-08	3.56E-10	0.00E+00	1.39E-08
4749	457602.9	3768312	1.219E-07	6.25E-09	0.00E+00	1.28E-07	1.22E-07	6.25E-09	0.00E+00	1.28E-07	3.65E-08	1.12E-09	0.00E+00	3.76E-08	1.38E-08	3.63E-10	0.00E+00	1.42E-08
4750	457612.9	3768312	1.237E-07	6.34E-09	0.00E+00	1.30E-07	1.24E-07	6.34E-09	0.00E+00	1.30E-07	3.70E-08	1.14E-09	0.00E+00	3.82E-08	1.40E-08	3.68E-10	0.00E+00	1.44E-08
4751	457622.8	3768312	1.253E-07	6.42E-09	0.00E+00	1.32E-07	1.25E-07	6.42E-09	0.00E+00	1.32E-07	3.75E-08	1.16E-09	0.00E+00	3.87E-08	1.42E-08	3.73E-10	0.00E+00	1.46E-08
4752	457632.8	3768312	1.268E-07	6.50E-09	0.00E+00	1.33E-07	1.27E-07	6.50E-09	0.00E+00	1.33E-07	3.80E-08	1.17E-09	0.00E+00	3.92E-08	1.44E-08	3.77E-10	0.00E+00	1.48E-08
4753	457642.8	3768312	1.283E-07	6.58E-09	0.00E+00	1.35E-07	1.28E-07	6.58E-09	0.00E+00	1.35E-07	3.84E-08	1.18E-09	0.00E+00	3.96E-08	1.46E-08	3.82E-10	0.00E+00	1.49E-08
4754	457652.7	3768312	1.295E-07	6.64E-09	0.00E+00	1.36E-07	1.30E-07	6.64E-09	0.00E+00	1.36E-07	3.88E-08	1.19E-09	0.00E+00	4.00E-08	1.47E-08	3.85E-10	0.00E+00	1.51E-08
4755	457662.7	3768312	1.306E-07	6.69E-09	0.00E+00	1.37E-07	1.31E-07	6.69E-09	0.00E+00	1.37E-07	3.91E-08	1.20E-09	0.00E+00	4.03E-08	1.48E-08	3.89E-10	0.00E+00	1.52E-08
4756	457672.7	3768312	1.314E-07	6.74E-09	0.00E+00	1.38E-07	1.31E-07	6.74E-09	0.00E+00	1.38E-07	3.94E-08	1.21E-09	0.00E+00	4.06E-08	1.49E-08	3.91E-10	0.00E+00	1.53E-08
4757	457682.7	3768312	1.32E-07	6.77E-09	0.00E+00	1.39E-07	1.32E-07	6.77E-09	0.00E+00	1.39E-07	3.95E-08	1.22E-09	0.00E+00	4.07E-08	1.50E-08	3.93E-10	0.00E+00	1.54E-08
4758	457692.6	3768312	1.323E-07	6.78E-09	0.00E+00	1.39E-07	1.32E-07	6.78E-09	0.00E+00	1.39E-07	3.96E-08	1.22E-09	0.00E+00	4.08E-08	1.50E-08	3.94E-10	0.00E+00	1.54E-08
4759	457702.6	3768312	1.323E-07	6.78E-09	0.00E+00	1.39E-07	1.32E-07	6.78E-09	0.00E+00	1.39E-07	3.96E-08	1.22E-09	0.00E+00	4.09E-08	1.50E-08	3.94E-10	0.00E+00	1.54E-08
4760	457296.5	3768311	2.576E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.72E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.67E-11	0.00E+00	3.00E-09
4761	457287.5	3768307	2.529E-08	1.30E-09	0.00E+00	2.66E-08	2.53E-08	1.30E-09	0.00E+00	2.66E-08	7.57E-09	2.33E-10	0.00E+00	7.81E-09	2.87E-09	7.53E-11	0.00E+00	2.94E-09
4762	457278.4	3768304	2.483E-08	1.27E-09	0.00E+00	2.61E-08	2.48E-08	1.27E-09	0.00E+00	2.61E-08	7.44E-09	2.29E-10	0.00E+00	7.66E-09	2.82E-09	7.39E-11	0.00E+00	2.89E-09
4763	457269.4	3768300	2.436E-08	1.25E-09	0.00E+00	2.56E-08	2.44E-08	1.25E-09	0.00E+00	2.56E-08	7.30E-09	2.25E-10	0.00E+00	7.52E-09	2.76E-09	7.25E-11	0.00E+00	2.84E-09
4764	457256.5	3768287	2.49E-08	1.28E-09	0.00E+00	2.62E-08	2.49E-08	1.28E-09	0.00E+00	2.62E-08	7.46E-09	2.30E-10	0.00E+00	7.69E-09	2.83E-09	7.41E-11	0.00E+00	2.90E-09
4765	457252.7	3768278	2.597E-08	1.33E-09	0.00E+00	2.73E-08	2.60E-08	1.33E-09	0.00E+00	2.73E-08	7.78E-09	2.39E-10	0.00E+00	8.02E-09	2.95E-09	7.73E-11	0.00E+00	3.02E-09
4766	457248.9	3768269	2.71E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.12E-09	2.50E-10	0.00E+00	8.37E-09	3.07E-09	8.06E-11	0.00E+00	3.16E-09
4767	457245.1	3768260	2.828E-08	1.45E-09	0.00E+00	2.97E-08	2.83E-08	1.45E-09	0.00E+00	2.97E-08	8.47E-09	2.61E-10	0.00E+00	8.73E-09	3.21E-09	8.41E-11	0.00E+00	3.29E-09
4768	457241.3	3768251	2.95E-08	1.51E-09	0.00E+00	3.10E-08	2.95E-08	1.51E-09	0.00E+00	3.10E-08	8.84E-09	2.72E-10	0.00E+00	9.11E-09	3.35E-09	8.78E-11	0.00E+00	3.43E-09
4769	457237.5	3768242	3.075E-08	1.58E-09	0.00E+00	3.23E-08	3.08E-08	1.58E-09	0.00E+00	3.23E-08	9.21E-09	2.84E-10	0.00E+00	9.49E-09	3.49E-09	9.15E-11	0.00E+00	3.58E-09
4770	457333.7	3768322	2.882E-08	1.48E-09	0.00E+00	3.03E-08	2.88E-08	1.48E-09	0.00E+00	3.03E-08	8.63E-09	2.66E-10	0.00E+00	8.90E-09	3.27E-09	8.58E-11	0.00E+00	3.36E-09
4771	457343.7	3768322	3.057E-08	1.57E-09	0.00E+00	3.21E-08	3.06E-08	1.57E-09	0.00E+00	3.21E-08	9.16E-09	2.82E-10	0.00E+00	9.44E-09	3.47E-09	9.10E-11	0.00E+00	3.56E-09
4772	457353.6	3768322	3.254E-08	1.67E-09	0.00E+00	3.42E-08	3.25E-08	1.67E-09	0.00E+00	3.42E-08	9.75E-09	3.00E-10	0.00E+00	1.00E-08	3.69E-09	9.68E-11	0.00E+00	3.79E-09
4773	457363.6	3768322	3.477E-08	1.78E-09	0.00E+00	3.66E-08	3.48E-08	1.78E-09	0.00E+00	3.66E-08	1.04E-08	3.21E-10	0.00E+00	1.07E-08	3.94E-09	1.03E-10	0.00E+00	4.05E-09
4774	457373.6	3768322	3.727E-08	1.91E-09	0.00E+00	3.92E-08	3.73E-08	1.91E-09	0.00E+00	3.92E-08	1.12E-08	3.44E-10	0.00E+00	1.15E-08	4.23E-09	1.11E-10	0.00E+00	4.34E-09
4775	457383.5	3768322	4.004E-08	2.05E-09	0.00E+00	4.21E-08	4.00E-08	2.05E-09	0.00E+00	4.21E-08	1.20E-08	3.69E-10	0.00E+00	1.24E-08	4.54E-09	1.19E-10	0.00E+00	4.66E-09
4776	457393.5	3768322	4.301E-08	2.21E-09	0.00E+00	4.52E-08	4.30E-08	2.21E-09	0.00E+00	4.52E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.88E-09	1.28E-10	0.00E+00	5.01E-09
4777	457403.5	3768322	4.616E-08	2.37E-09	0.00E+00	4.85E-08	4.62E-08	2.37E-09	0.00E+00	4.85E-08	1.38E-08	4.25E-10	0.00E+00	1.42E-08	5.24E-09	1.37E-10	0.00E+00	5.37E-09
4778	457413.5	3768322	4.947E-08	2.54E-09	0.00E+00	5.20E-08	4.95E-08	2.54E-09	0.00E+00	5.20E-08	1.48E-08	4.56E-10	0.00E+00	1.53E-08	5.61E-09	1.47E-10	0.00E+00	5.76E-09
4779	457423.4	3768322	5.295E-08	2.71E-09	0.00E+00	5.57E-08	5.29E-08	2.71E-09	0.00E+00	5.57E-08	1.59E-08	4.88E-10	0.00E+00	1.63E-08	6.01E-09	1.58E-10	0.00E+00	6.16E-09
4780	457433.4	3768322	5.659E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
4781	457443.4	3768322	6.03E-08	3.09E-09	0.00E+00	6.34E-08	6.03E-08	3.09E-09	0.00E+00	6.34E-08	1.81E-08	5.56E-10	0.00E+00	1.86E-08	6.84E-09	1.79E-10	0.00E+00	7.02E-09
4782	457453.3	3768322	6.404E-08	3.28E-09	0.00E+00	6.73E-08	6.40E-08	3.28E-09	0.00E+00	6.73E-08	1.92E-08	5.90E-10	0.00E+00	1.98E-08	7.27E-09	1.91E-10	0.00E+00	7.46E-09
4783	457463.3	3768322	6.777E-08	3.47E-09	0.00E+00	7.12E-08	6.78E-08	3.47E-09	0.00E+00	7.12E-08	2.03E-08	6.25E-10	0.00E+00	2.09E-08	7.69E-09	2.02E-10	0.00E+00	7.89E-09
4784	457473.3	3768322	7.147E-08	3.66E-09	0.00E+00	7.51E-08	7.15E-08	3.66E-09	0.00E+00	7.51E-08	2.14E-08	6.59E-10	0.00E+00	2.21E-08	8.11E-09	2.13E-10	0.00E+00	8.32E-09
4785	457483.2	3768322	7.511E-08	3.85E-09	0.00E+00	7.90E-08	7.51E-08	3.85E-09	0.00E+00	7.90E-08	2.25E-08	6.92E-10	0.00E+00	2.32E-08	8.52E-09	2.24E-10	0.00E+00	8.75E-09
4786	457493.2	3768322	7.866E-08	4.03E-09	0.00E+00	8.27E-08	7.87E-08	4.03E-09	0.00E+00	8.27E-08	2.36E-08	7.25E-10	0.00E+00	2.43E-08	8.92E-09	2.34E-10	0.00E+00	9.16E-09
4787	457503.2	3768322	8.212E-08	4.21E-09	0.00E+00	8.63E-08	8.21E-08	4.21E-09	0.00E+00	8.63E-08	2.46E-08	7.57E-10	0.00E+00	2.54E-08	9.32E-09	2.44E-10	0.00E+00	9.56E-09
4788	457513.2	3768322	8.543E-08	4.38E-09	0.00E+00	8.98E-08	8.54E-08	4.38E-09	0.00E+00	8.98E-08	2.56E-08	7.88E-10	0.00E+00	2.64E-08	9.69E-09	2.54E-10	0.00E+00	9.95E-09
4789	457523.1	3768322	8.856E-08	4.54E-09	0.00E+00	9.31E-08	8.86E-08	4.54E-09	0.00E+00	9.31E-08	2.65E-08	8.16E-10	0.00E+00	2.73E-08	1.00E-08	2.64E-10	0.00E+00	1.03E-08
4790	457533.1	3768322	9.156E-08	4.69E-09	0.00E+00	9.62E-08	9.16E-08	4.69E-09	0.00E+00	9.62E-08	2.74E-08	8.44E-10	0.00E+00	2.83E-08	1.04E-08	2.72E-10	0.00E+00	1.07E-08
4791	457543.1	3768322	9.448E-08	4.84E-09	0.00E+00	9.93E-08	9.45E-08	4.84E-09	0.00E+00	9.93E-08	2.83E-08	8.71E-10	0.00E+00	2.92E-08	1.07E-08	2.81E-10	0.00E+00	1.10E-08
4792	457553	3768322	9.733E-08	4.99E-09	0.00E+00	1.02E-07	9.73E-08	4.99E-09	0.00E+00	1.02E-07	2.92E-08	8.97E-10	0.00E+00	3.00E-08	1.10E-08	2.90E-10	0.00E+00	1.13E-08
4793	457563	3768322	1.001E-07	5.13E-09	0.00E+00	1.05E-07	1.00E-07	5.13E-09	0.00E+00	1.05E-07	3.00E-08	9.22E-10	0.00E+00	3.09E-08	1.14E-08	2.98E-10	0.00E+00	1.16E-08
4794	457573	3768322	1.026E-07	5.26E-09	0.00E+00	1.08E-07	1.03E-07	5.26E-09	0.00E+00	1.08E-07	3.07E-08	9.46E-10	0.00E+00	3.17E-08	1.16E-08	3.05E-10	0.00E+00	1.19E-08
4795	457583	3768322	1.05E-07	5.38E-09	0.00E+00	1.10E-07	1.05E-07	5.38E-09	0.00E+00	1.10E-07	3.15E-08	9.68E-10	0.00E+00	3.24E-08	1.19E-08	3.12E-10	0.00E+00	1.22E-08
4796	457592.9	3768322	1.072E-07	5.50E-09	0.00E+00	1.13E-07	1.07E-07	5.50E-09	0.00E+00	1.13E-07	3.21E-08	9.89E-10	0.00E+00	3.31E-08	1.22E-08	3.19E-10	0.00E+00	1.25E-08
4797	457602.9	3768322	1.093E-07	5.60E-09	0.00E+00	1.15E-07	1.09E-07	5.60E-09	0.00E+00	1.15E-07	3.27E-08	1.01E-09	0.00E+00	3.37E-08	1.24E-08	3.25E-10	0.00E+00	1.27E-08
4798	457612.9	3768322	1.111E-07	5.70E-09	0.00E+00	1.17E-07	1.11E-07	5.70E-09	0.00E+00	1.17E-07	3.33E-08	1.02E-09	0.00E+00	3.43E-08	1.26E-08	3.31E-10	0.00E+00	1.29E-08
4799	457622.8	3768322	1.128E-07	5.78E-09	0.00E+00	1.19E-07	1.13E-07	5.78E-09	0.00E+00	1.19E-07	3.38E-08	1.04E-09	0.00E+00	3.48E-08	1.28E-08	3.36E-10	0.00E+00	1.31E-08
4800	457632.8	3768322	1.144E-07	5.86E-09	0.00E+00	1.20E-07	1.14E-07	5.86E-09	0.00E+00	1.20E-07	3.43E-08	1.05E-09	0.00E+00	3.53E-08	1.30E-08	3.40E-10	0.00E+00	1.33E-08
4801	457642.8	3768322	1.159E-07	5.94E-09	0.00E+00	1.22E-07	1.16E-07	5.94E-09	0.00E+00	1.22E-07	3.47E-08	1.07E-09	0.00E+00	3.58E-08	1.31E-08	3.45E-10	0.00E+00	1.35E-08
4802	457652.7	3768322	1.172E-07	6.01E-09	0.00E+00	1.23E-07	1.17E-07	6.01E-09	0.00E+00	1.23E-07	3.51E-08	1.08E-09	0.00E+00	3.62E-08	1.33E-08	3.49E-10	0.00E+00	1.36E-08
4803	457662.7	3768322	1.183E-07	6.07E-09	0.00E+00	1.24E-07	1.18E-07	6.07E-09	0.00E+00	1.24E-07	3.54E-08	1.09E-09	0.00E+00	3.65E-08	1.34E-08	3.52E-10	0.00E+00	1.38E-08
4804	457672.7	3768322	1.193E-07	6.12E-09	0.00E+00	1.25E-07	1.19E-07	6.12E-09	0.00E+00	1.25E-07	3.57E-08	1.10E-09	0.00E+00	3.68E-08	1.35E-08	3.55E-10	0.00E+00	1.39E-08
4805	457682.7	3768322	1.201E-07	6.16E-09	0.00E+00	1.26E-07	1.20E-07	6.16E-09	0.00E+00	1.26E-07	3.60E-08	1.11E-09	0.00E+00	3.71E-08	1.36E-08	3.57E-10	0.00E+00	1.40E-08
4806	457692.6	3768322	1.206E-07	6.18E-09	0.00E+00	1.27E-07	1.21E-07	6.18E-09	0.00E+00	1.27E-07	3.61E-08	1.11E-09	0.00E+00	3.72E-08	1.37E-08	3.59E-10	0.00E+00	1.40E-08
4807	457288.5	3768318	2.36E-08	1.21E-09	0.00E+00	2.48E-08	2.36E-08	1.21E-09	0.00E+00	2.48E-08	7.07E-09	2.18E-10	0.00E+00	7.29E-09	2.68E-09	7.02E-11	0.00E+00	2.75E-09
4808	457279.7	3768314	2.321E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.95E-09	2.14E-10	0.00E+00	7.17E-09	2.63E-09	6.91E-11	0.00E+00	2.70E-09
4809	457270.9	3768310	2.282E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.84E-09	2.10E-10	0.00E+00	7.05E-09	2.59E-09	6.79E-11	0.00E+00	2.66E-09
4810	457262.1	3768307	2.243E-08	1.15E-09	0.00E+00	2.36E-08	2.24E-08	1.15E-09	0.00E+00	2.36E-08	6.72E-09	2.07E-10	0.00E+00	6.93E-09	2.54E-09	6.68E-11	0.00E+00	2.61E-09
4811	457249.6	3768294	2.29E-08	1.17E-09	0.00E+00	2.41E-08	2.29E-08	1.17E-09	0.00E+00	2.41E-08	6.86E-09	2.11E-10	0.00E+00	7.07E-09	2.60E-09	6.81E-11	0.00E+00	2.67E-09
4812	457245.9	3768286	2.38E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.13E-09	2.19E-10	0.00E+00	7.35E-09	2.70E-09	7.08E-11	0.00E+00	2.77E-09
4813	457242.2	3768277	2.474E-08	1.27E-09	0.00E+00	2.60E-08	2.47E-08	1.27E-09	0.00E+00	2.60E-08	7.41E-09	2.28E-10	0.00E+00	7.64E-09	2.81E-09	7.36E-11	0.00E+00	2.88E-09

4814	457238.5	3768268	2.572E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.70E-09	2.37E-10	0.00E+00	7.94E-09	2.92E-09	7.65E-11	0.00E+00	3.00E-09
4815	457234.8	3768259	2.674E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.01E-09	2.47E-10	0.00E+00	8.26E-09	3.03E-09	7.96E-11	0.00E+00	3.11E-09
4816	457231.1	3768250	2.779E-08	1.42E-09	0.00E+00	2.92E-08	2.78E-08	1.42E-09	0.00E+00	2.92E-08	8.32E-09	2.56E-10	0.00E+00	8.58E-09	3.15E-09	8.27E-11	0.00E+00	3.24E-09
4817	457227.4	3768242	2.887E-08	1.48E-09	0.00E+00	3.03E-08	2.89E-08	1.48E-09	0.00E+00	3.03E-08	8.65E-09	2.66E-10	0.00E+00	8.91E-09	3.27E-09	8.59E-11	0.00E+00	3.36E-09
4818	457333.7	3768332	2.658E-08	1.36E-09	0.00E+00	2.79E-08	2.66E-08	1.36E-09	0.00E+00	2.79E-08	7.96E-09	2.45E-10	0.00E+00	8.21E-09	3.02E-09	7.91E-11	0.00E+00	3.10E-09
4819	457343.7	3768332	2.806E-08	1.44E-09	0.00E+00	2.95E-08	2.81E-08	1.44E-09	0.00E+00	2.95E-08	8.40E-09	2.59E-10	0.00E+00	8.66E-09	3.18E-09	8.35E-11	0.00E+00	3.27E-09
4820	457353.6	3768332	2.97E-08	1.52E-09	0.00E+00	3.12E-08	2.97E-08	1.52E-09	0.00E+00	3.12E-08	8.90E-09	2.74E-10	0.00E+00	9.17E-09	3.37E-09	8.84E-11	0.00E+00	3.46E-09
4821	457363.6	3768332	3.156E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.45E-09	2.91E-10	0.00E+00	9.74E-09	3.58E-09	9.39E-11	0.00E+00	3.67E-09
4822	457373.6	3768332	3.365E-08	1.73E-09	0.00E+00	3.54E-08	3.36E-08	1.73E-09	0.00E+00	3.54E-08	1.01E-08	3.10E-10	0.00E+00	1.04E-08	3.82E-09	1.00E-10	0.00E+00	3.92E-09
4823	457383.6	3768332	3.596E-08	1.84E-09	0.00E+00	3.78E-08	3.60E-08	1.84E-09	0.00E+00	3.78E-08	1.08E-08	3.31E-10	0.00E+00	1.11E-08	4.08E-09	1.07E-10	0.00E+00	4.19E-09
4824	457393.5	3768332	3.846E-08	1.97E-09	0.00E+00	4.04E-08	3.85E-08	1.97E-09	0.00E+00	4.04E-08	1.15E-08	3.55E-10	0.00E+00	1.19E-08	4.36E-09	1.14E-10	0.00E+00	4.48E-09
4825	457403.5	3768332	4.114E-08	2.11E-09	0.00E+00	4.32E-08	4.11E-08	2.11E-09	0.00E+00	4.32E-08	1.23E-08	3.79E-10	0.00E+00	1.27E-08	4.67E-09	1.22E-10	0.00E+00	4.79E-09
4826	457413.5	3768332	4.398E-08	2.25E-09	0.00E+00	4.62E-08	4.40E-08	2.25E-09	0.00E+00	4.62E-08	1.32E-08	4.05E-10	0.00E+00	1.36E-08	4.99E-09	1.31E-10	0.00E+00	5.12E-09
4827	457423.4	3768332	4.697E-08	2.41E-09	0.00E+00	4.94E-08	4.70E-08	2.41E-09	0.00E+00	4.94E-08	1.41E-08	4.33E-10	0.00E+00	1.45E-08	5.33E-09	1.40E-10	0.00E+00	5.47E-09
4828	457433.4	3768332	5.011E-08	2.57E-09	0.00E+00	5.27E-08	5.01E-08	2.57E-09	0.00E+00	5.27E-08	1.50E-08	4.62E-10	0.00E+00	1.55E-08	5.69E-09	1.49E-10	0.00E+00	5.83E-09
4829	457443.4	3768332	5.333E-08	2.73E-09	0.00E+00	5.61E-08	5.33E-08	2.73E-09	0.00E+00	5.61E-08	1.60E-08	4.92E-10	0.00E+00	1.65E-08	6.05E-09	1.59E-10	0.00E+00	6.21E-09
4830	457453.3	3768332	5.66E-08	2.90E-09	0.00E+00	5.95E-08	5.66E-08	2.90E-09	0.00E+00	5.95E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.42E-09	1.68E-10	0.00E+00	6.59E-09
4831	457463.3	3768332	5.99E-08	3.07E-09	0.00E+00	6.30E-08	5.99E-08	3.07E-09	0.00E+00	6.30E-08	1.79E-08	5.52E-10	0.00E+00	1.85E-08	6.80E-09	1.78E-10	0.00E+00	6.97E-09
4832	457473.3	3768332	6.32E-08	3.24E-09	0.00E+00	6.64E-08	6.32E-08	3.24E-09	0.00E+00	6.64E-08	1.89E-08	5.83E-10	0.00E+00	1.95E-08	7.17E-09	1.88E-10	0.00E+00	7.36E-09
4833	457483.3	3768332	6.645E-08	3.41E-09	0.00E+00	6.99E-08	6.64E-08	3.41E-09	0.00E+00	6.99E-08	1.99E-08	6.13E-10	0.00E+00	2.05E-08	7.54E-09	1.98E-10	0.00E+00	7.74E-09
4834	457493.2	3768332	6.962E-08	3.57E-09	0.00E+00	7.32E-08	6.96E-08	3.57E-09	0.00E+00	7.32E-08	2.09E-08	6.42E-10	0.00E+00	2.15E-08	7.90E-09	2.07E-10	0.00E+00	8.11E-09
4835	457503.2	3768332	7.272E-08	3.73E-09	0.00E+00	7.64E-08	7.27E-08	3.73E-09	0.00E+00	7.64E-08	2.18E-08	6.70E-10	0.00E+00	2.24E-08	8.25E-09	2.16E-10	0.00E+00	8.47E-09
4836	457513.2	3768332	7.575E-08	3.88E-09	0.00E+00	7.96E-08	7.57E-08	3.88E-09	0.00E+00	7.96E-08	2.27E-08	6.98E-10	0.00E+00	2.34E-08	8.59E-09	2.25E-10	0.00E+00	8.82E-09
4837	457523.1	3768332	7.868E-08	4.03E-09	0.00E+00	8.27E-08	7.87E-08	4.03E-09	0.00E+00	8.27E-08	2.36E-08	7.25E-10	0.00E+00	2.43E-08	8.93E-09	2.34E-10	0.00E+00	9.16E-09
4838	457533.1	3768332	8.152E-08	4.18E-09	0.00E+00	8.57E-08	8.15E-08	4.18E-09	0.00E+00	8.57E-08	2.44E-08	7.51E-10	0.00E+00	2.52E-08	9.25E-09	2.43E-10	0.00E+00	9.49E-09
4839	457543.1	3768332	8.428E-08	4.32E-09	0.00E+00	8.86E-08	8.43E-08	4.32E-09	0.00E+00	8.86E-08	2.52E-08	7.77E-10	0.00E+00	2.60E-08	9.56E-09	2.51E-10	0.00E+00	9.81E-09
4840	457553	3768332	8.697E-08	4.46E-09	0.00E+00	9.14E-08	8.70E-08	4.46E-09	0.00E+00	9.14E-08	2.60E-08	8.02E-10	0.00E+00	2.69E-08	9.87E-09	2.59E-10	0.00E+00	1.01E-08
4841	457563	3768332	8.955E-08	4.59E-09	0.00E+00	9.41E-08	8.95E-08	4.59E-09	0.00E+00	9.41E-08	2.68E-08	8.25E-10	0.00E+00	2.76E-08	1.02E-08	2.66E-10	0.00E+00	1.04E-08
4842	457573	3768332	9.197E-08	4.71E-09	0.00E+00	9.67E-08	9.20E-08	4.71E-09	0.00E+00	9.67E-08	2.75E-08	8.48E-10	0.00E+00	2.84E-08	1.04E-08	2.74E-10	0.00E+00	1.07E-08
4843	457583	3768332	9.423E-08	4.83E-09	0.00E+00	9.91E-08	9.42E-08	4.83E-09	0.00E+00	9.91E-08	2.82E-08	8.69E-10	0.00E+00	2.91E-08	1.07E-08	2.80E-10	0.00E+00	1.10E-08
4844	457592.9	3768332	9.634E-08	4.94E-09	0.00E+00	1.01E-07	9.63E-08	4.94E-09	0.00E+00	1.01E-07	2.89E-08	8.88E-10	0.00E+00	2.97E-08	1.09E-08	2.87E-10	0.00E+00	1.12E-08
4845	457602.9	3768332	9.833E-08	5.04E-09	0.00E+00	1.03E-07	9.83E-08	5.04E-09	0.00E+00	1.03E-07	2.95E-08	9.06E-10	0.00E+00	3.04E-08	1.12E-08	2.93E-10	0.00E+00	1.14E-08
4846	457612.9	3768332	1.002E-07	5.14E-09	0.00E+00	1.05E-07	1.00E-07	5.14E-09	0.00E+00	1.05E-07	3.00E-08	9.24E-10	0.00E+00	3.09E-08	1.14E-08	2.98E-10	0.00E+00	1.17E-08
4847	457622.8	3768332	1.019E-07	5.22E-09	0.00E+00	1.07E-07	1.02E-07	5.22E-09	0.00E+00	1.07E-07	3.05E-08	9.39E-10	0.00E+00	3.15E-08	1.16E-08	3.03E-10	0.00E+00	1.19E-08
4848	457632.8	3768332	1.035E-07	5.31E-09	0.00E+00	1.09E-07	1.04E-07	5.31E-09	0.00E+00	1.09E-07	3.10E-08	9.54E-10	0.00E+00	3.20E-08	1.17E-08	3.08E-10	0.00E+00	1.21E-08
4849	457642.8	3768332	1.05E-07	5.39E-09	0.00E+00	1.10E-07	1.05E-07	5.39E-09	0.00E+00	1.10E-07	3.15E-08	9.68E-10	0.00E+00	3.24E-08	1.19E-08	3.13E-10	0.00E+00	1.22E-08
4850	457652.7	3768332	1.064E-07	5.46E-09	0.00E+00	1.12E-07	1.06E-07	5.46E-09	0.00E+00	1.12E-07	3.19E-08	9.81E-10	0.00E+00	3.29E-08	1.21E-08	3.17E-10	0.00E+00	1.24E-08
4851	457662.7	3768332	1.076E-07	5.52E-09	0.00E+00	1.13E-07	1.08E-07	5.52E-09	0.00E+00	1.13E-07	3.22E-08	9.92E-10	0.00E+00	3.32E-08	1.22E-08	3.20E-10	0.00E+00	1.25E-08
4852	457672.7	3768332	1.087E-07	5.57E-09	0.00E+00	1.14E-07	1.09E-07	5.57E-09	0.00E+00	1.14E-07	3.26E-08	1.00E-09	0.00E+00	3.36E-08	1.23E-08	3.23E-10	0.00E+00	1.27E-08
4853	457682.7	3768332	1.096E-07	5.62E-09	0.00E+00	1.15E-07	1.10E-07	5.62E-09	0.00E+00	1.15E-07	3.28E-08	1.01E-09	0.00E+00	3.38E-08	1.24E-08	3.26E-10	0.00E+00	1.28E-08
4854	457692.6	3768332	1.102E-07	5.65E-09	0.00E+00	1.16E-07	1.10E-07	5.65E-09	0.00E+00	1.16E-07	3.30E-08	1.02E-09	0.00E+00	3.40E-08	1.25E-08	3.28E-10	0.00E+00	1.28E-08
4855	457702.6	3768332	1.106E-07	5.67E-09	0.00E+00	1.16E-07	1.11E-07	5.67E-09	0.00E+00	1.16E-07	3.31E-08	1.02E-09	0.00E+00	3.42E-08	1.26E-08	3.29E-10	0.00E+00	1.29E-08
4856	457232	3768312	1.899E-08	9.73E-10	0.00E+00	2.00E-08	1.90E-08	9.73E-10	0.00E+00	2.00E-08	5.69E-09	1.75E-10	0.00E+00	5.86E-09	2.15E-09	5.65E-11	0.00E+00	2.21E-09
4857	457228.3	3768303	1.965E-08	1.01E-09	0.00E+00	2.07E-08	1.96E-08	1.01E-09	0.00E+00	2.07E-08	5.88E-09	1.81E-10	0.00E+00	6.07E-09	2.23E-09	5.85E-11	0.00E+00	2.29E-09
4858	457224.6	3768295	2.032E-08	1.04E-09	0.00E+00	2.14E-08	2.03E-08	1.04E-09	0.00E+00	2.14E-08	6.09E-09	1.87E-10	0.00E+00	6.27E-09	2.31E-09	6.05E-11	0.00E+00	2.37E-09
4859	457220.9	3768286	2.103E-08	1.08E-09	0.00E+00	2.21E-08	2.10E-08	1.08E-09	0.00E+00	2.21E-08	6.30E-09	1.94E-10	0.00E+00	6.49E-09	2.39E-09	6.26E-11	0.00E+00	2.45E-09
4860	457217.2	3768277	2.175E-08	1.12E-09	0.00E+00	2.29E-08	2.18E-08	1.12E-09	0.00E+00	2.29E-08	6.52E-09	2.01E-10	0.00E+00	6.72E-09	2.47E-09	6.47E-11	0.00E+00	2.53E-09
4861	457213.5	3768268	2.25E-08	1.15E-09	0.00E+00	2.37E-08	2.25E-08	1.15E-09	0.00E+00	2.37E-08	6.74E-09	2.07E-10	0.00E+00	6.95E-09	2.55E-09	6.70E-11	0.00E+00	2.62E-09
4862	457209.8	3768259	2.327E-08	1.19E-09	0.00E+00	2.45E-08	2.33E-08	1.19E-09	0.00E+00	2.45E-08	6.97E-09	2.15E-10	0.00E+00	7.19E-09	2.64E-09	6.93E-11	0.00E+00	2.71E-09
4863	457206.1	3768251	2.406E-08	1.23E-09	0.00E+00	2.53E-08	2.41E-08	1.23E-09	0.00E+00	2.53E-08	7.21E-09	2.22E-10	0.00E+00	7.43E-09	2.73E-09	7.16E-11	0.00E+00	2.80E-09
4864	457202.4	3768242	2.486E-08	1.27E-09	0.00E+00	2.61E-08	2.49E-08	1.27E-09	0.00E+00	2.61E-08	7.45E-09	2.29E-10	0.00E+00	7.67E-09	2.82E-09	7.40E-11	0.00E+00	2.89E-09
4865	457333.7	3768357	2.209E-08	1.13E-09	0.00E+00	2.32E-08	2.21E-08	1.13E-09	0.00E+00	2.32E-08	6.62E-09	2.04E-10	0.00E+00	6.82E-09	2.51E-09	6.57E-11	0.00E+00	2.57E-09
4866	457343.7	3768357	2.312E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.92E-09	2.13E-10	0.00E+00	7.14E-09	2.62E-09	6.88E-11	0.00E+00	2.69E-09
4867	457353.7	3768357	2.425E-08	1.24E-09	0.00E+00	2.55E-08	2.42E-08	1.24E-09	0.00E+00	2.55E-08	7.26E-09	2.24E-10	0.00E+00	7.49E-09	2.75E-09	7.21E-11	0.00E+00	2.82E-09
4868	457363.6	3768357	2.55E-08	1.31E-09	0.00E+00	2.68E-08	2.55E-08	1.31E-09	0.00E+00	2.68E-08	7.64E-09	2.35E-10	0.00E+00	7.87E-09	2.89E-09	7.59E-11	0.00E+00	2.97E-09
4869	457373.6	3768357	2.69E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.06E-09	2.48E-10	0.00E+00	8.31E-09	3.05E-09	8.00E-11	0.00E+00	3.13E-09
4870	457383.6	3768357	2.844E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.52E-09	2.62E-10	0.00E+00	8.78E-09	3.23E-09	8.46E-11	0.00E+00	3.31E-09
4871	457393.5	3768357	3.012E-08	1.54E-09	0.00E+00	3.17E-08	3.01E-08	1.54E-09	0.00E+00	3.17E-08	9.02E-09	2.78E-10	0.00E+00	9.30E-09	3.42E-09	8.96E-11	0.00E+00	3.51E-09
4872	457403.5	3768357	3.195E-08	1.64E-09	0.00E+00	3.36E-08	3.19E-08	1.64E-09	0.00E+00	3.36E-08	9.57E-09	2.94E-10	0.00E+00	9.86E-09	3.62E-09	9.51E-11	0.00E+00	3.72E-09
4873	457413.5	3768357	3.39E-08	1.74E-09	0.00E+00	3.56E-08	3.39E-08	1.74E-09	0.00E+00	3.56E-08	1.02E-08	3.12E-10	0.00E+00	1.05E-08	3.85E-09	1.01E-10	0.00E+00	3.95E-09
4874	457423.4	3768357	3.598E-08	1.84E-09	0.00E+00	3.78E-08	3.60E-08	1.84E-09	0.00E+00	3.78E-08	1.08E-08	3.32E-10	0.00E+00	1.11E-08	4.08E-09	1.07E-10	0.00E+00	4.19E-09
4875	457433.4	3768357	3.816E-08	1.96E-09	0.00E+00	4.01E-08	3.82E-08	1.96E-09	0.00E+00	4.01E-08	1.14E-08	3.52E-10	0.00E+00	1.18E-08	4.33E-09	1.14E-10	0.00E+00	4.44E-09
4876	457443.4	3768357	4.044E-08	2.07E-09	0.00E+00	4.25E-08	4.04E-08	2.07E-09	0.00E+00	4.25E-08	1.21E-08	3.73E-10	0.00E+00	1.25E-08	4.59E-09	1.20E-10	0.00E+00	4.71E-09
4877	457453.4	3768357	4.279E-08	2.19E-09	0.00E+00	4.50E-08	4.28E-08	2.19E-09	0.00E+00	4.50E-08	1.28E-08	3.94E-10	0.00E+00	1.32E-08	4.85E-09	1.27E-10	0.00E+00	4.98E-09
4878	457463.3	3768357	4.518E-08	2.32E-09	0.00E+00	4.75E-08	4.52E-08	2.32E-09	0.00E+00	4.75E-08	1.35E-08	4.16E-10	0.00E+00	1.39E-08	5.13E-09	1.34E-10	0.00E+00	5.26E-09
4879	457473.3	3768357	4.761E-08	2.44E-09	0.00E+00	5.00E-08	4.76E-08	2.44E-09	0.00E+00	5.00E-08	1.43E-08	4.39E-10	0.00E+00	1.47E-08	5.40E-09	1.42E-10	0.00E+00	5.54E-09
4880	457483.3	3768357	5.004E-08	2.57E-09	0.00E+00	5.26E-08	5.00E-08	2.57E-09	0.00E+00	5.26E-08	1.50E-08	4.61E-10	0.00E+00	1.54E-08	5.68E-09	1.49E-10	0.00E+00	5.83E-09
4881	457493.2	3768357	5.248E-08	2.69E-09	0.00E+00	5.52E-08	5.25E-08	2.69E-09	0.00E+00	5.52E-08	1.57E-08	4.84E-10	0.00E+00	1.62E-08	5.95E-09	1.56E-10	0.00E+00	6.11E-09
4882	457503.2	3768357	5.49E-08	2.81E-09	0.00E+00	5.77E-08	5.49E-08	2.81E-09	0.00E+00	5.77E-08	1.64E-08	5.06E-10	0.00E+00	1.69E-08	6.23E-09	1.63E-10	0.00E+00	6.39E-09
4883	457513.2	3768357	5.732E-08	2.94E-09	0.00E+00	6.03E-08	5.73E-08	2.94E-09	0.00E+00	6.03E-08	1.72E-08	5.28E-10	0.00E+00	1.77E-08	6.50E-09	1.71E-10	0.00E+00	6.67E-09
4884	457523.1	3768357	5.974E-08	3.06E-09	0.00E+00	6.28E-08	5.97E-08	3.06E-09	0.00E+00	6.28E-08	1.79E-08	5.51E-10	0.00E+00	1.84E-08	6.78E-09	1.78E-10	0.00E+00	6.96E-09
4885	457533.1	3768357	6.212E-08	3.18E-09	0.00E+00	6.53E-08	6.21E-08	3.18E-09	0.00E+00	6.53E-08	1.86E-08	5.73E-10	0.00E+00	1.92E-08	7.05E-09	1.85E-10	0.00E+00	7.23E-09
4886	457543.1	3768357	6.444E-08	3.30E-09	0.00E+00	6.77E-08	6.44E-08	3.30E-09	0.00E+00	6.77E-08	1.93E-08	5.94E-10	0.00E+00	1.99E-08	7.31E-09	1.92E-10	0.00E+00	7.50E-09
4887	457553.1	3768357	6.667E-08	3.42E-09	0.00E+00	7.01E-08	6.67E-08	3.42E-09	0.00E+00	7.01E-08	2.00E-08	6.15E-10	0.00E+00	2.06E-08	7.56E-09	1.98E-10	0.00E+00	7.76E-09
4888	457563	3768357	6.884E-08	3.53E-09	0.00E+00	7.24E-08	6.88E-08	3.53E-09	0.00E+00	7.24E-08	2.06E-08	6.35E-10	0.00E+00	2.13E-08	7.81E-09	2.05E-10	0.00E+00	8.02E-09
4889	457573	3768357	7.093E-08	3.64E-09	0.00E+00	7.46E-08	7.09E-08	3.64E-09	0.00E+00	7.46E-08	2.12E-08	6.54E-10	0.00E+00	2.19E-08	8.05E-09	2.11E-10	0.00E+00	8.26E-09
4890	457583	3768357	7.292E-08	3.74E-09	0.00E+00	7.67E-08	7.29E-08	3.74E-09	0.00E+00	7.67E-08	2.18E-08	6.72E-10	0.00E+00	2.25E-08	8.27E-09	2.17E-10	0.00E+00	8.49E-09
4891	457592.9	3768357	7.481E-08	3.84E-09	0.00E+00	7.86E-08	7.48E-08	3.84E-09	0.00E+00	7.86E-08	2.24E-08	6.90E-10	0.00E+00	2.31E-08	8.49E-09	2.23E-10	0.00E+00	8.71E-09
4892	457602.9	3768357	7.665E-08	3.93E-09	0.00E+00	8.06E-08	7.67E-08	3.93E-09	0.00E+00	8.06E-08	2.30E-08	7.07E-10	0.00E+00	2.37E-08	8.70E-09	2.28E-10	0.00E+00	8.92E-09
4893	457612.9	3768357	7.844E-08	4.02E-09	0.00E+00	8.25E-08	7.84E-08	4.02E-09	0.00E+00	8.25E-08	2.35E-08	7.23E-10	0.00E+00	2.42E-08	8.90E-09	2.33E-10	0.00E+00	9.13E-09
4894	457622.8	3768357	8.013E-08	4.11E-09	0.00E+00	8.42E-08	8.01E-08	4.11E-09	0.00E+00	8.42E-08	2.40E-08	7.39E-10	0.00E+00	2.47E-08	9.09E-09	2.38E-10	0.00E+00	9.33E-09
4895	457632.8	3768357	8.174E-08	4.19E-09	0.00E+00	8.59E-08	8.17E-08	4.19E-09	0.00E+00	8.59E-08	2.45E-08	7.53E-10	0.00E+00	2.52E-08	9.27E-09	2.43E-10	0.00E+00	9.52E-09
4896	457642.8	3768357	8.324E-08	4.27E-09	0.00E+00	8.75E-08	8.32E-08	4.27E-09	0.00E+00	8.75E-08	2.49E-08	7.67E-10	0.00E+00	2.57E-08	9.44E-09	2.48E-10	0.00E+00	9.69E-09
4897	457652.8	3768357	8.464E-08	4.34E-09	0.00E+00	8.90E-08	8.46E-08	4.34E-09	0.00E+00	8.90E-08	2.53E-08	7.80E-10	0.00E+00	2.61E-08	9.60E-09	2.52E-10	0.00E+00	9.85E-09
4898	457662.7	3768357	8.591E-08	4.40E-09	0.00E+00	9.03E-08	8.59E-08	4.40E-09	0.00E+00	9.03E-08	2.57E-08	7.92E-10	0.00E+00	2.65E-08	9.75E-09	2.56E-10	0.00E+00	1.00E-08
4899	457672.7	3768357	8.704E-08	4.46E-09	0.00E+00	9.15E-08	8.70E-08	4.46E-09	0.00E+00	9.15E-08	2.61E-08	8.02E-10	0.00E+00	2.69E-08	9.88E-09	2.59E-10	0.00E+00	1.01E-08
4900	457682.7	3768357	8.805E-08	4.51E-09	0.00E+00	9.26E-08	8.80E-08	4.51E-09	0.00E+00	9.26E-08	2.64E-08	8.12E-10	0.00E+00	2.72E-08	9.99E-09	2.62E-10	0.00E+00	1.03E-08
4901	457692.6	3768357	8.892E-08	4.56E-09	0.00E+00	9.35E-08	8.89E-08	4.56E-09	0.00E+00	9.35E-08	2.66E-08	8.20E-10	0.00E+00	2.75E-08	1.01E-08	2.65E-10	0.00E+00	1.04E-08
4902	457702.6	3768357	8.961E-08	4.59E-09	0.00E+00	9.42E-08	8.96E-08	4.59E-09	0.00E+00	9.42E-08	2.68E-08	8.26E-10	0.00E+00	2.77E-08	1.02E-08	2.67E-10	0.00E+00	1.04E-08
4903	457210.7	3768321	1.66E-08	8.51E-10	0.00E+00	1.74E-08	1.66E-08	8.51E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.94E-11	0.00E+00	1.93E-09
4904	457207	3768312	1.711E-08	8.77E-10	0.00E+00	1.80E-08	1.71E-08	8.77E-10	0.00E+00	1.80E-08	5.12E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
4905	457203.3	3768304	1.763E-08	9.04E-10	0.00E+00	1.85E-08	1.76E-08	9.04E-10	0.00E+00	1.85E-08	5.28E-09	1.63E-10	0.00E+00	5.44E-09	2.00E-09	5.25E-11	0.00E+00	2.05E-09
4906	457199.6	3768295	1.817E-08	9.32E-10	0.00E+00	1.91E-08	1.82E-08	9.32E-10	0.00E+00	1.91E-08	5.44E-09	1.68E-10	0.00E+00	5.61E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
4907	457195.9	3768286	1.873E-08	9.60E-10	0.00E+00	1.97E-08	1.87E-08	9.60E-10	0.00E+00	1.97E-08	5.61E-09	1.73E-10	0.00E+00	5.78E-09	2.13E-09	5.57E-11	0.00E+00	2.18E-09
4908	457192.2	3768277	1.93E-08	9.89E-10	0.00E+00	2.03E-08	1.93E-08	9.89E-10	0.00E+00	2.03E-08	5.78E-09	1.78E-10	0.00E+00	5.96E-09	2.19E-09	5.74E-11	0.00E+00	2.25E-09
4909	457188.5	3768268	1.988E-08	1.02E-09	0.00E+00	2.09E-08	1.99E-08	1.02E-09	0.00E+00	2.09E-08	5.95E-09	1.83E-10	0.00E+00	6.14E-09	2.26E-09	5.92E-11	0.00E+00	2.31E-09
4910	457184.8	3768260	2.048E-08	1.05E-09	0.00E+00	2.15E-08	2.05E-08	1.05E-09	0.00E+00	2.15E-08	6.13E-09	1.89E-10	0.00E+00	6.32E-09	2.32E-09	6.09E-11	0.00E+00	2.38E-09
4911	457181.1	3768251	2.108E-08	1.08E-09	0.00E+00	2.22E-08	2.11E-08	1.08E-09	0.00E+00	2.22E-08	6.31E-09	1.94E-10	0.00E+00	6.51E-09	2.39E-09	6.27E-11	0.00E+00	2.45E-09
4912	457177.4	3768242	2.17E-08	1.11E-09	0.00E+00	2.28E-08	2.17E-08	1.11E-09	0.00E+00	2.28E-08	6.50E-09	2.00E-10	0.00E+00	6.70E-09	2.46E-09	6.46E-11	0.00E+00	2.53E-09
4913	457333.7	3768382	1.874E-08	9.61E-10	0.00E+00	1.97E-08	1.87E-08	9.61E-10	0.00E+00	1.97E-08	5.61E-09	1.73E-10	0.00E+00	5.78E-09	2.13E-09	5.58E-11	0.00E+00	2.18E-09
4914	457343.7	3768382	1.95E-08	1.00E-09	0.00E+00	2.05E-08	1.95E-08	1.00E-09	0.00E+00	2.05E-08	5.84E-09	1.80E-10	0.00E+00	6.02E-09	2.21E-09	5.80E-11	0.00E+00	2.27E-09
4915	457353.7	3768382	2.033E-08	1.04E-09	0.00E+00	2.14E-08	2.03E-08	1.04E-09	0.00E+00	2.14E-08	6.09E-09	1.87E-10	0.00E+00	6.28E-09	2.31E-09	6.05E-11	0.00E+00	2.37E-09
4916	457363.6	3768382	2.124E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.36E-09	1.96E-10	0.00E+00	6.56E-09	2.41E-09	6.32E-11	0.00E+00	2.47E-09
4917	457373.6	3768382	2.223E-08	1.14E-09	0.00E+00	2.34E-08	2.22E-08	1.14E-09	0.00E+00	2.34E-08	6.66E-09	2.05E-10	0.00E+00	6.86E-09	2.52E-09	6.61E-11	0.00E+00	2.59E-09
4918	457383.6	3768382	2.331E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.98E-09	2.15E-10	0.00E+00	7.20E-09	2.64E-09	6.94E-11	0.00E+00	2.71E-09
4919	457393.5	3768382	2.448E-08	1.26E-09	0.00E+00	2.57E-08	2.45E-08	1.26E-09	0.00E+00	2.57E-08	7.33E-09	2.26E-10	0.00E+00	7.56E-09	2.78E-09	7.29E-11	0.00E+00	2.85E-09
4920	457403.5	3768382	2.576E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.71E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.66E-11	0.00E+00	3.00E-09
4921	457413.5	3768382	2.712E-08	1.39E-09	0.00E+00	2.85E-08	2.71E-08	1.39E-09	0.00E+00	2.85E-08	8.12E-09	2.50E-10	0.00E+00	8.37E-09	3.08E-09	8.07E-11	0.00E+00	3.16E-09
4922	457423.5	3768382	2.858E-08	1.47E-09	0.00E+00	3.00E-08	2.86E-08	1.47E-09	0.00E+00	3.00E-08	8.56E-09	2.63E-10	0.00E+00	8.82E-09	3.24E-09	8.51E-11	0.00E+00	3.33E-09
4923	457433.4	3768382	3.014E-08	1.55E-09	0.00E+00	3.17E-08	3.01E-08	1.55E-09	0.00E+00	3.17E-08	9.03E-09	2.78E-10	0.00E+00	9.31E-09	3.42E-09	8.97E-11	0.00E+00	3.51E-09
4924	457443.4	3768382	3.178E-08	1.63E-09	0.00E+00	3.34E-08	3.18E-08	1.63E-09	0.00E+00	3.34E-08	9.52E-09	2.93E-10	0.00E+00	9.81E-09	3.61E-09	9.46E-11	0.00E+00	3.70E-09
4925	457453.4	3768382	3.348E-08	1.72E-09	0.00E+00	3.52E-08	3.35E-08	1.72E-09	0.00E+00	3.52E-08	1.00E-08	3.09E-10	0.00E+00	1.03E-08	3.80E-09	9.96E-11	0.00E+00	3.90E-09

4926	457463.3	3768382	3.522E-08	1.81E-09	0.00E+00	3.70E-08	3.52E-08	1.81E-09	0.00E+00	3.70E-08	1.05E-08	3.25E-10	0.00E+00	1.09E-08	4.00E-09	1.05E-10	0.00E+00	4.10E-09
4927	457473.3	3768382	3.7E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
4928	457483.3	3768382	3.884E-08	1.99E-09	0.00E+00	4.08E-08	3.88E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.52E-09
4929	457493.2	3768382	4.074E-08	2.09E-09	0.00E+00	4.28E-08	4.07E-08	2.09E-09	0.00E+00	4.28E-08	1.22E-08	3.76E-10	0.00E+00	1.26E-08	4.62E-09	1.21E-10	0.00E+00	4.74E-09
4930	457503.2	3768382	4.266E-08	2.19E-09	0.00E+00	4.49E-08	4.27E-08	2.19E-09	0.00E+00	4.49E-08	1.28E-08	3.93E-10	0.00E+00	1.32E-08	4.84E-09	1.27E-10	0.00E+00	4.97E-09
4931	457513.2	3768382	4.459E-08	2.29E-09	0.00E+00	4.69E-08	4.46E-08	2.29E-09	0.00E+00	4.69E-08	1.34E-08	4.11E-10	0.00E+00	1.38E-08	5.06E-09	1.33E-10	0.00E+00	5.19E-09
4932	457523.2	3768382	4.651E-08	2.38E-09	0.00E+00	4.89E-08	4.65E-08	2.38E-09	0.00E+00	4.89E-08	1.39E-08	4.29E-10	0.00E+00	1.44E-08	5.28E-09	1.38E-10	0.00E+00	5.42E-09
4933	457533.1	3768382	4.842E-08	2.48E-09	0.00E+00	5.09E-08	4.84E-08	2.48E-09	0.00E+00	5.09E-08	1.45E-08	4.46E-10	0.00E+00	1.49E-08	5.49E-09	1.44E-10	0.00E+00	5.64E-09
4934	457543.1	3768382	5.031E-08	2.58E-09	0.00E+00	5.29E-08	5.03E-08	2.58E-09	0.00E+00	5.29E-08	1.51E-08	4.64E-10	0.00E+00	1.55E-08	5.71E-09	1.50E-10	0.00E+00	5.86E-09
4935	457553.1	3768382	5.213E-08	2.67E-09	0.00E+00	5.48E-08	5.21E-08	2.67E-09	0.00E+00	5.48E-08	1.56E-08	4.81E-10	0.00E+00	1.61E-08	5.91E-09	1.55E-10	0.00E+00	6.07E-09
4936	457563	3768382	5.393E-08	2.76E-09	0.00E+00	5.67E-08	5.39E-08	2.76E-09	0.00E+00	5.67E-08	1.62E-08	4.97E-10	0.00E+00	1.66E-08	6.12E-09	1.60E-10	0.00E+00	6.28E-09
4937	457573	3768382	5.57E-08	2.86E-09	0.00E+00	5.86E-08	5.57E-08	2.86E-09	0.00E+00	5.86E-08	1.67E-08	5.13E-10	0.00E+00	1.72E-08	6.32E-09	1.66E-10	0.00E+00	6.48E-09
4938	457583	3768382	5.747E-08	2.95E-09	0.00E+00	6.04E-08	5.75E-08	2.95E-09	0.00E+00	6.04E-08	1.72E-08	5.30E-10	0.00E+00	1.77E-08	6.52E-09	1.71E-10	0.00E+00	6.69E-09
4939	457592.9	3768382	5.919E-08	3.03E-09	0.00E+00	6.22E-08	5.92E-08	3.03E-09	0.00E+00	6.22E-08	1.77E-08	5.46E-10	0.00E+00	1.83E-08	6.71E-09	1.76E-10	0.00E+00	6.89E-09
4940	457602.9	3768382	6.086E-08	3.12E-09	0.00E+00	6.40E-08	6.09E-08	3.12E-09	0.00E+00	6.40E-08	1.82E-08	5.61E-10	0.00E+00	1.88E-08	6.90E-09	1.81E-10	0.00E+00	7.09E-09
4941	457612.9	3768382	6.246E-08	3.20E-09	0.00E+00	6.57E-08	6.25E-08	3.20E-09	0.00E+00	6.57E-08	1.87E-08	5.76E-10	0.00E+00	1.93E-08	7.09E-09	1.86E-10	0.00E+00	7.27E-09
4942	457622.9	3768382	6.401E-08	3.28E-09	0.00E+00	6.73E-08	6.40E-08	3.28E-09	0.00E+00	6.73E-08	1.92E-08	5.90E-10	0.00E+00	1.98E-08	7.26E-09	1.90E-10	0.00E+00	7.45E-09
4943	457632.8	3768382	6.549E-08	3.36E-09	0.00E+00	6.88E-08	6.55E-08	3.36E-09	0.00E+00	6.88E-08	1.96E-08	6.04E-10	0.00E+00	2.02E-08	7.43E-09	1.95E-10	0.00E+00	7.63E-09
4944	457642.8	3768382	6.689E-08	3.43E-09	0.00E+00	7.03E-08	6.69E-08	3.43E-09	0.00E+00	7.03E-08	2.00E-08	6.17E-10	0.00E+00	2.07E-08	7.59E-09	1.99E-10	0.00E+00	7.79E-09
4945	457652.8	3768382	6.822E-08	3.50E-09	0.00E+00	7.17E-08	6.82E-08	3.50E-09	0.00E+00	7.17E-08	2.04E-08	6.29E-10	0.00E+00	2.11E-08	7.74E-09	2.03E-10	0.00E+00	7.94E-09
4946	457662.7	3768382	6.945E-08	3.56E-09	0.00E+00	7.30E-08	6.94E-08	3.56E-09	0.00E+00	7.30E-08	2.08E-08	6.40E-10	0.00E+00	2.14E-08	7.88E-09	2.07E-10	0.00E+00	8.09E-09
4947	457672.7	3768382	7.056E-08	3.62E-09	0.00E+00	7.42E-08	7.06E-08	3.62E-09	0.00E+00	7.42E-08	2.11E-08	6.50E-10	0.00E+00	2.18E-08	8.01E-09	2.10E-10	0.00E+00	8.22E-09
4948	457682.7	3768382	7.158E-08	3.67E-09	0.00E+00	7.53E-08	7.16E-08	3.67E-09	0.00E+00	7.53E-08	2.14E-08	6.60E-10	0.00E+00	2.21E-08	8.12E-09	2.13E-10	0.00E+00	8.33E-09
4949	457692.7	3768382	7.254E-08	3.72E-09	0.00E+00	7.63E-08	7.25E-08	3.72E-09	0.00E+00	7.63E-08	2.17E-08	6.69E-10	0.00E+00	2.24E-08	8.23E-09	2.16E-10	0.00E+00	8.45E-09
4950	457702.6	3768382	7.343E-08	3.76E-09	0.00E+00	7.72E-08	7.34E-08	3.76E-09	0.00E+00	7.72E-08	2.20E-08	6.77E-10	0.00E+00	2.27E-08	8.33E-09	2.18E-10	0.00E+00	8.55E-09
4951	457185.7	3768321	1.507E-08	7.73E-10	0.00E+00	1.58E-08	1.51E-08	7.73E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
4952	457182	3768313	1.549E-08	7.94E-10	0.00E+00	1.63E-08	1.55E-08	7.94E-10	0.00E+00	1.63E-08	4.64E-09	1.43E-10	0.00E+00	4.78E-09	1.76E-09	4.61E-11	0.00E+00	1.80E-09
4953	457178.3	3768304	1.592E-08	8.16E-10	0.00E+00	1.67E-08	1.59E-08	8.16E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.91E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
4954	457174.6	3768295	1.635E-08	8.38E-10	0.00E+00	1.72E-08	1.64E-08	8.38E-10	0.00E+00	1.72E-08	4.90E-09	1.51E-10	0.00E+00	5.05E-09	1.86E-09	4.87E-11	0.00E+00	1.90E-09
4955	457170.9	3768286	1.68E-08	8.61E-10	0.00E+00	1.77E-08	1.68E-08	8.61E-10	0.00E+00	1.77E-08	5.03E-09	1.55E-10	0.00E+00	5.19E-09	1.91E-09	5.00E-11	0.00E+00	1.96E-09
4956	457167.2	3768277	1.726E-08	8.85E-10	0.00E+00	1.81E-08	1.73E-08	8.85E-10	0.00E+00	1.81E-08	5.17E-09	1.59E-10	0.00E+00	5.33E-09	1.96E-09	5.14E-11	0.00E+00	2.01E-09
4957	457163.5	3768269	1.772E-08	9.09E-10	0.00E+00	1.86E-08	1.77E-08	9.09E-10	0.00E+00	1.86E-08	5.31E-09	1.63E-10	0.00E+00	5.47E-09	2.01E-09	5.27E-11	0.00E+00	2.06E-09
4958	457159.8	3768260	1.82E-08	9.33E-10	0.00E+00	1.91E-08	1.82E-08	9.33E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.06E-09	5.42E-11	0.00E+00	2.12E-09
4959	457156.1	3768251	1.869E-08	9.58E-10	0.00E+00	1.96E-08	1.87E-08	9.58E-10	0.00E+00	1.96E-08	5.60E-09	1.72E-10	0.00E+00	5.77E-09	2.12E-09	5.56E-11	0.00E+00	2.18E-09
4960	457152.4	3768242	1.918E-08	9.83E-10	0.00E+00	2.02E-08	1.92E-08	9.83E-10	0.00E+00	2.02E-08	5.74E-09	1.77E-10	0.00E+00	5.92E-09	2.18E-09	5.71E-11	0.00E+00	2.23E-09
4961	457333.7	3768407	1.617E-08	8.29E-10	0.00E+00	1.70E-08	1.62E-08	8.29E-10	0.00E+00	1.70E-08	4.84E-09	1.49E-10	0.00E+00	4.99E-09	1.83E-09	4.81E-11	0.00E+00	1.88E-09
4962	457343.7	3768407	1.675E-08	8.59E-10	0.00E+00	1.76E-08	1.67E-08	8.59E-10	0.00E+00	1.76E-08	5.02E-09	1.54E-10	0.00E+00	5.17E-09	1.90E-09	4.98E-11	0.00E+00	1.95E-09
4963	457353.7	3768407	1.737E-08	8.91E-10	0.00E+00	1.83E-08	1.74E-08	8.91E-10	0.00E+00	1.83E-08	5.20E-09	1.60E-10	0.00E+00	5.36E-09	1.97E-09	5.17E-11	0.00E+00	2.02E-09
4964	457363.6	3768407	1.804E-08	9.25E-10	0.00E+00	1.90E-08	1.80E-08	9.25E-10	0.00E+00	1.90E-08	5.40E-09	1.66E-10	0.00E+00	5.57E-09	2.05E-09	5.37E-11	0.00E+00	2.10E-09
4965	457373.6	3768407	1.877E-08	9.62E-10	0.00E+00	1.97E-08	1.88E-08	9.62E-10	0.00E+00	1.97E-08	5.62E-09	1.73E-10	0.00E+00	5.80E-09	2.13E-09	5.59E-11	0.00E+00	2.19E-09
4966	457383.6	3768407	1.956E-08	1.00E-09	0.00E+00	2.06E-08	1.96E-08	1.00E-09	0.00E+00	2.06E-08	5.86E-09	1.80E-10	0.00E+00	6.04E-09	2.22E-09	5.82E-11	0.00E+00	2.28E-09
4967	457393.6	3768407	2.041E-08	1.05E-09	0.00E+00	2.15E-08	2.04E-08	1.05E-09	0.00E+00	2.15E-08	6.11E-09	1.88E-10	0.00E+00	6.30E-09	2.32E-09	6.07E-11	0.00E+00	2.38E-09
4968	457403.5	3768407	2.131E-08	1.09E-09	0.00E+00	2.24E-08	2.13E-08	1.09E-09	0.00E+00	2.24E-08	6.38E-09	1.96E-10	0.00E+00	6.58E-09	2.42E-09	6.34E-11	0.00E+00	2.48E-09
4969	457413.5	3768407	2.228E-08	1.14E-09	0.00E+00	2.34E-08	2.23E-08	1.14E-09	0.00E+00	2.34E-08	6.67E-09	2.05E-10	0.00E+00	6.88E-09	2.53E-09	6.63E-11	0.00E+00	2.59E-09
4970	457423.5	3768407	2.332E-08	1.20E-09	0.00E+00	2.45E-08	2.33E-08	1.20E-09	0.00E+00	2.45E-08	6.99E-09	2.15E-10	0.00E+00	7.20E-09	2.65E-09	6.94E-11	0.00E+00	2.72E-09
4971	457433.4	3768407	2.446E-08	1.25E-09	0.00E+00	2.57E-08	2.45E-08	1.25E-09	0.00E+00	2.57E-08	7.32E-09	2.25E-10	0.00E+00	7.55E-09	2.77E-09	7.28E-11	0.00E+00	2.85E-09
4972	457443.4	3768407	2.565E-08	1.32E-09	0.00E+00	2.70E-08	2.57E-08	1.32E-09	0.00E+00	2.70E-08	7.68E-09	2.36E-10	0.00E+00	7.92E-09	2.91E-09	7.63E-11	0.00E+00	2.99E-09
4973	457453.4	3768407	2.692E-08	1.38E-09	0.00E+00	2.83E-08	2.69E-08	1.38E-09	0.00E+00	2.83E-08	8.06E-09	2.48E-10	0.00E+00	8.31E-09	3.05E-09	8.01E-11	0.00E+00	3.13E-09
4974	457463.3	3768407	2.824E-08	1.45E-09	0.00E+00	2.97E-08	2.82E-08	1.45E-09	0.00E+00	2.97E-08	8.46E-09	2.60E-10	0.00E+00	8.72E-09	3.20E-09	8.40E-11	0.00E+00	3.29E-09
4975	457473.3	3768407	2.961E-08	1.52E-09	0.00E+00	3.11E-08	2.96E-08	1.52E-09	0.00E+00	3.11E-08	8.87E-09	2.73E-10	0.00E+00	9.14E-09	3.36E-09	8.81E-11	0.00E+00	3.45E-09
4976	457483.3	3768407	3.103E-08	1.59E-09	0.00E+00	3.26E-08	3.10E-08	1.59E-09	0.00E+00	3.26E-08	9.29E-09	2.86E-10	0.00E+00	9.58E-09	3.52E-09	9.23E-11	0.00E+00	3.61E-09
4977	457493.3	3768407	3.249E-08	1.67E-09	0.00E+00	3.42E-08	3.25E-08	1.67E-09	0.00E+00	3.42E-08	9.73E-09	3.00E-10	0.00E+00	1.00E-08	3.69E-09	9.67E-11	0.00E+00	3.78E-09
4978	457503.2	3768407	3.398E-08	1.74E-09	0.00E+00	3.57E-08	3.40E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
4979	457513.2	3768407	3.548E-08	1.82E-09	0.00E+00	3.73E-08	3.55E-08	1.82E-09	0.00E+00	3.73E-08	1.06E-08	3.27E-10	0.00E+00	1.10E-08	4.03E-09	1.06E-10	0.00E+00	4.13E-09
4980	457523.2	3768407	3.697E-08	1.90E-09	0.00E+00	3.89E-08	3.70E-08	1.90E-09	0.00E+00	3.89E-08	1.11E-08	3.41E-10	0.00E+00	1.14E-08	4.19E-09	1.10E-10	0.00E+00	4.30E-09
4981	457533.1	3768407	3.846E-08	1.97E-09	0.00E+00	4.04E-08	3.85E-08	1.97E-09	0.00E+00	4.04E-08	1.15E-08	3.55E-10	0.00E+00	1.19E-08	4.36E-09	1.14E-10	0.00E+00	4.48E-09
4982	457543.1	3768407	3.998E-08	2.05E-09	0.00E+00	4.20E-08	4.00E-08	2.05E-09	0.00E+00	4.20E-08	1.20E-08	3.69E-10	0.00E+00	1.23E-08	4.54E-09	1.19E-10	0.00E+00	4.65E-09
4983	457553.1	3768407	4.152E-08	2.13E-09	0.00E+00	4.36E-08	4.15E-08	2.13E-09	0.00E+00	4.36E-08	1.24E-08	3.83E-10	0.00E+00	1.28E-08	4.71E-09	1.24E-10	0.00E+00	4.83E-09
4984	457563	3768407	4.306E-08	2.21E-09	0.00E+00	4.53E-08	4.31E-08	2.21E-09	0.00E+00	4.53E-08	1.29E-08	3.97E-10	0.00E+00	1.33E-08	4.89E-09	1.28E-10	0.00E+00	5.01E-09
4985	457573	3768407	4.458E-08	2.29E-09	0.00E+00	4.69E-08	4.46E-08	2.29E-09	0.00E+00	4.69E-08	1.34E-08	4.11E-10	0.00E+00	1.38E-08	5.06E-09	1.33E-10	0.00E+00	5.19E-09
4986	457583	3768407	4.608E-08	2.36E-09	0.00E+00	4.84E-08	4.61E-08	2.36E-09	0.00E+00	4.84E-08	1.38E-08	4.25E-10	0.00E+00	1.42E-08	5.23E-09	1.37E-10	0.00E+00	5.37E-09
4987	457593	3768407	4.756E-08	2.44E-09	0.00E+00	5.00E-08	4.76E-08	2.44E-09	0.00E+00	5.00E-08	1.42E-08	4.38E-10	0.00E+00	1.47E-08	5.40E-09	1.42E-10	0.00E+00	5.54E-09
4988	457602.9	3768407	4.901E-08	2.51E-09	0.00E+00	5.15E-08	4.90E-08	2.51E-09	0.00E+00	5.15E-08	1.47E-08	4.52E-10	0.00E+00	1.51E-08	5.56E-09	1.46E-10	0.00E+00	5.71E-09
4989	457612.9	3768407	5.042E-08	2.58E-09	0.00E+00	5.30E-08	5.04E-08	2.58E-09	0.00E+00	5.30E-08	1.51E-08	4.65E-10	0.00E+00	1.56E-08	5.72E-09	1.50E-10	0.00E+00	5.87E-09
4990	457622.9	3768407	5.18E-08	2.66E-09	0.00E+00	5.45E-08	5.18E-08	2.66E-09	0.00E+00	5.45E-08	1.55E-08	4.77E-10	0.00E+00	1.60E-08	5.88E-09	1.54E-10	0.00E+00	6.03E-09
4991	457632.8	3768407	5.312E-08	2.72E-09	0.00E+00	5.58E-08	5.31E-08	2.72E-09	0.00E+00	5.58E-08	1.59E-08	4.90E-10	0.00E+00	1.64E-08	6.03E-09	1.58E-10	0.00E+00	6.18E-09
4992	457642.8	3768407	5.435E-08	2.79E-09	0.00E+00	5.71E-08	5.43E-08	2.79E-09	0.00E+00	5.71E-08	1.63E-08	5.01E-10	0.00E+00	1.68E-08	6.17E-09	1.62E-10	0.00E+00	6.33E-09
4993	457652.8	3768407	5.553E-08	2.85E-09	0.00E+00	5.84E-08	5.55E-08	2.85E-09	0.00E+00	5.84E-08	1.66E-08	5.12E-10	0.00E+00	1.71E-08	6.30E-09	1.65E-10	0.00E+00	6.47E-09
4994	457662.8	3768407	5.667E-08	2.91E-09	0.00E+00	5.96E-08	5.67E-08	2.91E-09	0.00E+00	5.96E-08	1.70E-08	5.22E-10	0.00E+00	1.75E-08	6.43E-09	1.69E-10	0.00E+00	6.60E-09
4995	457672.7	3768407	5.78E-08	2.96E-09	0.00E+00	6.08E-08	5.78E-08	2.96E-09	0.00E+00	6.08E-08	1.73E-08	5.33E-10	0.00E+00	1.78E-08	6.56E-09	1.72E-10	0.00E+00	6.73E-09
4996	457682.7	3768407	5.887E-08	3.02E-09	0.00E+00	6.19E-08	5.89E-08	3.02E-09	0.00E+00	6.19E-08	1.76E-08	5.43E-10	0.00E+00	1.82E-08	6.68E-09	1.75E-10	0.00E+00	6.85E-09
4997	457692.7	3768407	5.987E-08	3.07E-09	0.00E+00	6.29E-08	5.99E-08	3.07E-09	0.00E+00	6.29E-08	1.79E-08	5.52E-10	0.00E+00	1.85E-08	6.79E-09	1.78E-10	0.00E+00	6.97E-09
4998	457702.6	3768407	5.927E-08	3.04E-09	0.00E+00	6.23E-08	5.93E-08	3.04E-09	0.00E+00	6.23E-08	1.78E-08	5.46E-10	0.00E+00	1.83E-08	6.72E-09	1.76E-10	0.00E+00	6.90E-09
4999	457175.4	3768357	1.243E-08	6.37E-10	0.00E+00	1.31E-08	1.24E-08	6.37E-10	0.00E+00	1.31E-08	3.72E-09	1.15E-10	0.00E+00	3.84E-09	1.41E-09	3.70E-11	0.00E+00	1.45E-09
5000	457171.7	3768348	1.274E-08	6.53E-10	0.00E+00	1.34E-08	1.27E-08	6.53E-10	0.00E+00	1.34E-08	3.82E-09	1.17E-10	0.00E+00	3.93E-09	1.45E-09	3.79E-11	0.00E+00	1.48E-09
5001	457168.1	3768339	1.307E-08	6.70E-10	0.00E+00	1.37E-08	1.31E-08	6.70E-10	0.00E+00	1.37E-08	3.91E-09	1.20E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
5002	457164.4	3768330	1.341E-08	6.87E-10	0.00E+00	1.41E-08	1.34E-08	6.87E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
5003	457160.7	3768321	1.374E-08	7.05E-10	0.00E+00	1.44E-08	1.37E-08	7.05E-10	0.00E+00	1.44E-08	4.12E-09	1.27E-10	0.00E+00	4.24E-09	1.56E-09	4.09E-11	0.00E+00	1.60E-09
5004	457157	3768313	1.409E-08	7.22E-10	0.00E+00	1.48E-08	1.41E-08	7.22E-10	0.00E+00	1.48E-08	4.22E-09	1.30E-10	0.00E+00	4.35E-09	1.60E-09	4.19E-11	0.00E+00	1.64E-09
5005	457153.3	3768304	1.444E-08	7.40E-10	0.00E+00	1.52E-08	1.44E-08	7.40E-10	0.00E+00	1.52E-08	4.33E-09	1.33E-10	0.00E+00	4.46E-09	1.64E-09	4.30E-11	0.00E+00	1.68E-09
5006	457149.6	3768295	1.48E-08	7.59E-10	0.00E+00	1.56E-08	1.48E-08	7.59E-10	0.00E+00	1.56E-08	4.43E-09	1.36E-10	0.00E+00	4.57E-09	1.68E-09	4.40E-11	0.00E+00	1.72E-09
5007	457145.9	3768286	1.517E-08	7.77E-10	0.00E+00	1.59E-08	1.52E-08	7.77E-10	0.00E+00	1.59E-08	4.54E-09	1.40E-10	0.00E+00	4.68E-09	1.72E-09	4.51E-11	0.00E+00	1.77E-09
5008	457142.2	3768278	1.554E-08	7.97E-10	0.00E+00	1.63E-08	1.55E-08	7.97E-10	0.00E+00	1.63E-08	4.66E-09	1.43E-10	0.00E+00	4.80E-09	1.76E-09	4.63E-11	0.00E+00	1.81E-09
5009	457138.5	3768269	1.593E-08	8.16E-10	0.00E+00	1.67E-08	1.59E-08	8.16E-10	0.00E+00	1.67E-08	4.77E-09	1.47E-10	0.00E+00	4.92E-09	1.81E-09	4.74E-11	0.00E+00	1.85E-09
5010	457134.8	3768260	1.632E-08	8.36E-10	0.00E+00	1.72E-08	1.63E-08	8.36E-10	0.00E+00	1.72E-08	4.89E-09	1.50E-10	0.00E+00	5.04E-09	1.85E-09	4.86E-11	0.00E+00	1.90E-09
5011	457131.1	3768251	1.671E-08	8.57E-10	0.00E+00	1.76E-08	1.67E-08	8.57E-10	0.00E+00	1.76E-08	5.01E-09	1.54E-10	0.00E+00	5.16E-09	1.90E-09	4.97E-11	0.00E+00	1.95E-09
5012	457127.4	3768242	1.711E-08	8.77E-10	0.00E+00	1.80E-08	1.71E-08	8.77E-10	0.00E+00	1.80E-08	5.12E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
5013	457174	3768396	1.059E-08	5.43E-10	0.00E+00	1.11E-08	1.06E-08	5.43E-10	0.00E+00	1.11E-08	3.17E-09	9.76E-11	0.00E+00	3.27E-09	1.20E-09	3.15E-11	0.00E+00	1.23E-09
5014	457161.5	3768383	1.072E-08	5.49E-10	0.00E+00	1.13E-08	1.07E-08	5.49E-10	0.00E+00	1.13E-08	3.21E-09	9.88E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
5015	457157.8	3768374	1.096E-08	5.62E-10	0.00E+00	1.15E-08	1.10E-08	5.62E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.28E-09
5016	457154.1	3768366	1.122E-08	5.75E-10	0.00E+00	1.18E-08	1.12E-08	5.75E-10	0.00E+00	1.18E-08	3.36E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.34E-11	0.00E+00	1.31E-09
5017	457150.4	3768357	1.148E-08	5.88E-10	0.00E+00	1.21E-08	1.15E-08	5.88E-10	0.00E+00	1.21E-08	3.44E-09	1.06E-10	0.00E+00	3.54E-09	1.30E-09	3.42E-11	0.00E+00	1.34E-09
5018	457146.7	3768348	1.175E-08	6.02E-10	0.00E+00	1.23E-08	1.17E-08	6.02E-10	0.00E+00	1.23E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.33E-09	3.50E-11	0.00E+00	1.37E-09
5019	457143.1	3768339	1.202E-08	6.16E-10	0.00E+00	1.26E-08	1.20E-08	6.16E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.58E-11	0.00E+00	1.40E-09
5020	457139.4	3768330	1.23E-08	6.31E-10	0.00E+00	1.29E-08	1.23E-08	6.31E-10	0.00E+00	1.29E-08	3.69E-09	1.13E-10	0.00E+00	3.80E-09	1.40E-09	3.66E-11	0.00E+00	1.43E-09
5021	457135.7	3768322	1.259E-08	6.45E-10	0.00E+00	1.32E-08	1.26E-08	6.45E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.75E-11	0.00E+00	1.47E-09
5022	457132	3768313	1.288E-08	6.60E-10	0.00E+00	1.35E-08	1.29E-08	6.60E-10	0.00E+00	1.35E-08	3.86E-09	1.19E-10	0.00E+00	3.98E-09	1.46E-09	3.83E-11	0.00E+00	1.50E-09
5023	457128.3	3768304	1.317E-08	6.75E-10	0.00E+00	1.38E-08	1.32E-08	6.75E-10	0.00E+00	1.38E-08	3.95E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
5024	457124.6	3768295	1.347E-08	6.91E-10	0.00E+00	1.42E-08	1.35E-08	6.91E-10	0.00E+00	1.42E-08	4.04E-09	1.24E-10	0.00E+00	4.16E-09	1.53E-09	4.01E-11	0.00E+00	1.57E-09
5025	457120.9	3768287	1.378E-08	7.06E-10	0.00E+00	1.45E-08	1.38E-08	7.06E-10	0.00E+00	1.45E-08	4.13E-09	1.27E-10	0.00E+00	4.25E-09	1.56E-09	4.10E-11	0.00E+00	1.60E-09
5026	457117.2	3768278	1.409E-08	7.22E-10	0.00E+00	1.48E-08	1.41E-08	7.22E-10	0.00E+00	1.48E-08	4.22E-09	1.30E-10	0.00E+00	4.35E-09	1.60E-09	4.19E-11	0.00E+00	1.64E-09
5027	457113.5	3768269	1.441E-08	7.39E-10	0.00E+00	1.51E-08	1.44E-08	7.39E-10	0.00E+00	1.51E-08	4.32E-09	1.33E-10	0.00E+00	4.45E-09	1.63E-09	4.29E-11	0.00E+00	1.68E-09
5028	457109.8	3768260	1.473E-08	7.55E-10	0.00E+00	1.55E-08	1.47E-08	7.55E-10	0.00E+00	1.55E-08	4.41E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.38E-11	0.00E+00	1.72E-09
5029	457106.1	3768251	1.506E-08	7.72E-10	0.00E+00	1.58E-08	1.51E-08	7.72E-10	0.00E+00	1.58E-08	4.51E-09	1.39E-10	0.00E+00	4.65E-09	1.71E-09	4.48E-11	0.00E+00	1.75E-09
5030	457102.4	3768243	1.539E-08	7.89E-10	0.00E+00	1.62E-08	1.54E-08	7.89E-10	0.00E+00	1.62E-08	4.61E-09	1.42E-10	0.00E+00	4.75E-09	1.75E-09	4.58E-11	0.00E+00	1.79E-09
5031	457333.8	3768457	1.246E-08	6.39E-10	0.00E+00	1.31E-08	1.25E-08	6.39E-10	0.00E+00	1.31E-08	3.73E-09	1.15E-10	0.00E+00	3.85E-09	1.41E-09	3.71E-11	0.00E+00	1.45E-09
5032	457343.7	3768457	1.281E-08	6.57E-10	0.00E+00	1.35E-08	1.28E-08	6.57E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.45E-09	3.81E-11	0.00E+00	1.49E-09
5033	457353.7	3768457	1.319E-08	6.76E-10	0.00E+00	1.39E-08	1.32E-08	6.76E-10	0.00E+00	1.39E-08	3.95E-09	1.22E-10	0.00E+00	4.07E-09	1.50E-09	3.92E-11	0.00E+00	1.54E-09
5034	457363.7	3768457	1.359E-08	6.97E-10	0.00E+00	1.43E-08	1.36E-08	6.97E-10	0.00E+00	1.43E-08	4.07E-09	1.25E-10	0.00E+00	4.19E-09	1.54E-09	4.04E-11	0.00E+00	1.58E-09
5035	457373.6	3768457	1.401E-08	7.18E-10	0.00E+00	1.47E-08	1.40E-08	7.18E-10	0.00E+00	1.47E-08	4.20E-09	1.29E-10	0.00E+00	4.33E-09	1.59E-09	4.17E-11	0.00E+00	1.63E-09
5036	457383.6	3768457	1.447E-08	7.42E-10	0.00E+00	1.52E-08	1.45E-08	7.42E-10	0.00E+00	1.52E-08	4.33E-09	1.33E-10	0.00E+00	4.47E-09	1.64E-09	4.30E-11	0.00E+00	1.68E-09
5037	457393.6	3768457	1.495E-08	7.67E-10	0.00E+00	1.57E-08	1.50E-08	7.67E-10	0.00E+00	1.57E-08	4.48E-09	1.38E-10	0.00E+00	4.62E-09	1.70E-09	4.45E-11	0.00E+00	1.74E-09

5038	457403.5	3768457	1.548E-08	7.94E-10	0.00E+00	1.63E-08	1.55E-08	7.94E-10	0.00E+00	1.63E-08	4.64E-09	1.43E-10	0.00E+00	4.78E-09	1.76E-09	4.61E-11	0.00E+00	1.80E-09
5039	457413.5	3768457	1.605E-08	8.23E-10	0.00E+00	1.69E-08	1.60E-08	8.23E-10	0.00E+00	1.69E-08	4.81E-09	1.48E-10	0.00E+00	4.95E-09	1.82E-09	4.77E-11	0.00E+00	1.87E-09
5040	457423.5	3768457	1.665E-08	8.54E-10	0.00E+00	1.75E-08	1.66E-08	8.54E-10	0.00E+00	1.75E-08	4.99E-09	1.53E-10	0.00E+00	5.14E-09	1.89E-09	4.95E-11	0.00E+00	1.94E-09
5041	457433.5	3768457	1.729E-08	8.87E-10	0.00E+00	1.82E-08	1.73E-08	8.87E-10	0.00E+00	1.82E-08	5.18E-09	1.59E-10	0.00E+00	5.34E-09	1.96E-09	5.15E-11	0.00E+00	2.01E-09
5042	457443.4	3768457	1.798E-08	9.22E-10	0.00E+00	1.89E-08	1.80E-08	9.22E-10	0.00E+00	1.89E-08	5.38E-09	1.66E-10	0.00E+00	5.55E-09	2.04E-09	5.35E-11	0.00E+00	2.09E-09
5043	457453.4	3768457	1.87E-08	9.59E-10	0.00E+00	1.97E-08	1.87E-08	9.59E-10	0.00E+00	1.97E-08	5.60E-09	1.72E-10	0.00E+00	5.77E-09	2.12E-09	5.56E-11	0.00E+00	2.18E-09
5044	457463.4	3768457	1.945E-08	9.97E-10	0.00E+00	2.04E-08	1.95E-08	9.97E-10	0.00E+00	2.04E-08	5.83E-09	1.79E-10	0.00E+00	6.01E-09	2.21E-09	5.79E-11	0.00E+00	2.26E-09
5045	457473.3	3768457	2.024E-08	1.04E-09	0.00E+00	2.13E-08	2.02E-08	1.04E-09	0.00E+00	2.13E-08	6.06E-09	1.87E-10	0.00E+00	6.25E-09	2.30E-09	6.02E-11	0.00E+00	2.36E-09
5046	457483.3	3768457	2.107E-08	1.08E-09	0.00E+00	2.22E-08	2.11E-08	1.08E-09	0.00E+00	2.22E-08	6.31E-09	1.94E-10	0.00E+00	6.51E-09	2.39E-09	6.27E-11	0.00E+00	2.45E-09
5047	457493.3	3768457	2.194E-08	1.12E-09	0.00E+00	2.31E-08	2.19E-08	1.12E-09	0.00E+00	2.31E-08	6.57E-09	2.02E-10	0.00E+00	6.77E-09	2.49E-09	6.53E-11	0.00E+00	2.55E-09
5048	457503.3	3768457	2.284E-08	1.17E-09	0.00E+00	2.40E-08	2.28E-08	1.17E-09	0.00E+00	2.40E-08	6.84E-09	2.11E-10	0.00E+00	7.05E-09	2.59E-09	6.80E-11	0.00E+00	2.66E-09
5049	457513.2	3768457	2.378E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.12E-09	2.19E-10	0.00E+00	7.34E-09	2.70E-09	7.08E-11	0.00E+00	2.77E-09
5050	457523.2	3768457	2.474E-08	1.27E-09	0.00E+00	2.60E-08	2.47E-08	1.27E-09	0.00E+00	2.60E-08	7.41E-09	2.28E-10	0.00E+00	7.64E-09	2.81E-09	7.36E-11	0.00E+00	2.88E-09
5051	457533.2	3768457	2.573E-08	1.32E-09	0.00E+00	2.71E-08	2.57E-08	1.32E-09	0.00E+00	2.71E-08	7.71E-09	2.37E-10	0.00E+00	7.94E-09	2.92E-09	7.66E-11	0.00E+00	3.00E-09
5052	457543.1	3768457	2.674E-08	1.37E-09	0.00E+00	2.81E-08	2.67E-08	1.37E-09	0.00E+00	2.81E-08	8.01E-09	2.46E-10	0.00E+00	8.25E-09	3.03E-09	7.96E-11	0.00E+00	3.11E-09
5053	457553.1	3768457	2.774E-08	1.42E-09	0.00E+00	2.92E-08	2.77E-08	1.42E-09	0.00E+00	2.92E-08	8.31E-09	2.56E-10	0.00E+00	8.56E-09	3.15E-09	8.26E-11	0.00E+00	3.23E-09
5054	457563.1	3768457	2.876E-08	1.47E-09	0.00E+00	3.02E-08	2.88E-08	1.47E-09	0.00E+00	3.02E-08	8.61E-09	2.65E-10	0.00E+00	8.88E-09	3.26E-09	8.56E-11	0.00E+00	3.35E-09
5055	457573	3768457	2.979E-08	1.53E-09	0.00E+00	3.13E-08	2.98E-08	1.53E-09	0.00E+00	3.13E-08	8.92E-09	2.75E-10	0.00E+00	9.20E-09	3.38E-09	8.86E-11	0.00E+00	3.47E-09
5056	457583	3768457	3.083E-08	1.58E-09	0.00E+00	3.24E-08	3.08E-08	1.58E-09	0.00E+00	3.24E-08	9.23E-09	2.84E-10	0.00E+00	9.52E-09	3.50E-09	9.18E-11	0.00E+00	3.59E-09
5057	457593	3768457	3.188E-08	1.63E-09	0.00E+00	3.35E-08	3.19E-08	1.63E-09	0.00E+00	3.35E-08	9.55E-09	2.94E-10	0.00E+00	9.84E-09	3.62E-09	9.49E-11	0.00E+00	3.71E-09
5058	457603	3768457	3.292E-08	1.69E-09	0.00E+00	3.46E-08	3.29E-08	1.69E-09	0.00E+00	3.46E-08	9.86E-09	3.03E-10	0.00E+00	1.02E-08	3.74E-09	9.80E-11	0.00E+00	3.83E-09
5059	457612.9	3768457	3.397E-08	1.74E-09	0.00E+00	3.57E-08	3.40E-08	1.74E-09	0.00E+00	3.57E-08	1.02E-08	3.13E-10	0.00E+00	1.05E-08	3.85E-09	1.01E-10	0.00E+00	3.96E-09
5060	457622.9	3768457	3.501E-08	1.80E-09	0.00E+00	3.68E-08	3.50E-08	1.80E-09	0.00E+00	3.68E-08	1.05E-08	3.23E-10	0.00E+00	1.08E-08	3.97E-09	1.04E-10	0.00E+00	4.08E-09
5061	457632.9	3768457	3.604E-08	1.85E-09	0.00E+00	3.79E-08	3.60E-08	1.85E-09	0.00E+00	3.79E-08	1.08E-08	3.32E-10	0.00E+00	1.11E-08	4.09E-09	1.07E-10	0.00E+00	4.20E-09
5062	457642.8	3768457	3.706E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.14E-08	4.20E-09	1.10E-10	0.00E+00	4.31E-09
5063	457652.8	3768457	3.806E-08	1.95E-09	0.00E+00	4.00E-08	3.81E-08	1.95E-09	0.00E+00	4.00E-08	1.14E-08	3.51E-10	0.00E+00	1.17E-08	4.32E-09	1.13E-10	0.00E+00	4.43E-09
5064	457662.8	3768457	3.709E-08	1.90E-09	0.00E+00	3.90E-08	3.71E-08	1.90E-09	0.00E+00	3.90E-08	1.11E-08	3.42E-10	0.00E+00	1.15E-08	4.21E-09	1.10E-10	0.00E+00	4.32E-09
5065	457672.7	3768457	3.798E-08	1.95E-09	0.00E+00	3.99E-08	3.80E-08	1.95E-09	0.00E+00	3.99E-08	1.14E-08	3.50E-10	0.00E+00	1.17E-08	4.31E-09	1.13E-10	0.00E+00	4.42E-09
5066	457682.7	3768457	3.885E-08	1.99E-09	0.00E+00	4.08E-08	3.89E-08	1.99E-09	0.00E+00	4.08E-08	1.16E-08	3.58E-10	0.00E+00	1.20E-08	4.41E-09	1.16E-10	0.00E+00	4.52E-09
5067	457692.7	3768457	3.972E-08	2.04E-09	0.00E+00	4.18E-08	3.97E-08	2.04E-09	0.00E+00	4.18E-08	1.19E-08	3.66E-10	0.00E+00	1.23E-08	4.51E-09	1.18E-10	0.00E+00	4.63E-09
5068	457702.7	3768457	4.061E-08	2.08E-09	0.00E+00	4.27E-08	4.06E-08	2.08E-09	0.00E+00	4.27E-08	1.22E-08	3.74E-10	0.00E+00	1.25E-08	4.61E-09	1.21E-10	0.00E+00	4.73E-09
5069	457288.6	3768468	1.061E-08	5.44E-10	0.00E+00	1.11E-08	1.06E-08	5.44E-10	0.00E+00	1.11E-08	3.18E-09	9.78E-11	0.00E+00	3.27E-09	1.20E-09	3.16E-11	0.00E+00	1.23E-09
5070	457279.8	3768464	1.054E-08	5.41E-10	0.00E+00	1.11E-08	1.05E-08	5.41E-10	0.00E+00	1.11E-08	3.16E-09	9.72E-11	0.00E+00	3.26E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
5071	457270.9	3768460	1.048E-08	5.37E-10	0.00E+00	1.10E-08	1.05E-08	5.37E-10	0.00E+00	1.10E-08	3.14E-09	9.66E-11	0.00E+00	3.24E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
5072	457262.1	3768457	1.042E-08	5.34E-10	0.00E+00	1.09E-08	1.04E-08	5.34E-10	0.00E+00	1.09E-08	3.12E-09	9.60E-11	0.00E+00	3.22E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
5073	457253.3	3768453	1.035E-08	5.31E-10	0.00E+00	1.09E-08	1.03E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.54E-11	0.00E+00	3.20E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
5074	457244.5	3768450	1.028E-08	5.27E-10	0.00E+00	1.08E-08	1.03E-08	5.27E-10	0.00E+00	1.08E-08	3.08E-09	9.48E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
5075	457156.4	3768413	9.453E-09	4.85E-10	0.00E+00	9.94E-09	9.45E-09	4.85E-10	0.00E+00	9.94E-09	2.83E-09	8.71E-11	0.00E+00	2.92E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
5076	457143.9	3768401	9.561E-09	4.90E-10	0.00E+00	1.01E-08	9.56E-09	4.90E-10	0.00E+00	1.01E-08	2.86E-09	8.81E-11	0.00E+00	2.95E-09	1.08E-09	2.85E-11	0.00E+00	1.11E-09
5077	457140.2	3768392	9.765E-09	5.01E-10	0.00E+00	1.03E-08	9.76E-09	5.01E-10	0.00E+00	1.03E-08	2.92E-09	9.00E-11	0.00E+00	3.01E-09	1.11E-09	2.91E-11	0.00E+00	1.14E-09
5078	457136.5	3768383	9.974E-09	5.11E-10	0.00E+00	1.05E-08	9.97E-09	5.11E-10	0.00E+00	1.05E-08	2.99E-09	9.19E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
5079	457132.8	3768375	1.019E-08	5.22E-10	0.00E+00	1.07E-08	1.02E-08	5.22E-10	0.00E+00	1.07E-08	3.05E-09	9.39E-11	0.00E+00	3.15E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
5080	457129.1	3768366	1.041E-08	5.34E-10	0.00E+00	1.09E-08	1.04E-08	5.34E-10	0.00E+00	1.09E-08	3.12E-09	9.60E-11	0.00E+00	3.21E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
5081	457125.4	3768357	1.064E-08	5.45E-10	0.00E+00	1.12E-08	1.06E-08	5.45E-10	0.00E+00	1.12E-08	3.19E-09	9.80E-11	0.00E+00	3.28E-09	1.21E-09	3.16E-11	0.00E+00	1.24E-09
5082	457121.8	3768348	1.086E-08	5.57E-10	0.00E+00	1.14E-08	1.09E-08	5.57E-10	0.00E+00	1.14E-08	3.25E-09	1.00E-10	0.00E+00	3.35E-09	1.23E-09	3.23E-11	0.00E+00	1.26E-09
5083	457118.1	3768339	1.11E-08	5.69E-10	0.00E+00	1.17E-08	1.11E-08	5.69E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.43E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
5084	457114.4	3768331	1.134E-08	5.81E-10	0.00E+00	1.19E-08	1.13E-08	5.81E-10	0.00E+00	1.19E-08	3.40E-09	1.04E-10	0.00E+00	3.50E-09	1.29E-09	3.37E-11	0.00E+00	1.32E-09
5085	457110.7	3768322	1.158E-08	5.94E-10	0.00E+00	1.22E-08	1.16E-08	5.94E-10	0.00E+00	1.22E-08	3.47E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.45E-11	0.00E+00	1.35E-09
5086	457107	3768313	1.182E-08	6.06E-10	0.00E+00	1.24E-08	1.18E-08	6.06E-10	0.00E+00	1.24E-08	3.54E-09	1.09E-10	0.00E+00	3.65E-09	1.34E-09	3.52E-11	0.00E+00	1.38E-09
5087	457103.3	3768304	1.207E-08	6.19E-10	0.00E+00	1.27E-08	1.21E-08	6.19E-10	0.00E+00	1.27E-08	3.62E-09	1.11E-10	0.00E+00	3.73E-09	1.37E-09	3.59E-11	0.00E+00	1.41E-09
5088	457099.6	3768296	1.233E-08	6.32E-10	0.00E+00	1.30E-08	1.23E-08	6.32E-10	0.00E+00	1.30E-08	3.69E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
5089	457095.9	3768287	1.259E-08	6.45E-10	0.00E+00	1.32E-08	1.26E-08	6.45E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.89E-09	1.43E-09	3.74E-11	0.00E+00	1.47E-09
5090	457092.2	3768278	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.28E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
5091	457088.5	3768269	1.312E-08	6.72E-10	0.00E+00	1.38E-08	1.31E-08	6.72E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.05E-09	1.49E-09	3.90E-11	0.00E+00	1.53E-09
5092	457084.8	3768260	1.339E-08	6.86E-10	0.00E+00	1.41E-08	1.34E-08	6.86E-10	0.00E+00	1.41E-08	4.01E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
5093	457081.1	3768252	1.366E-08	7.00E-10	0.00E+00	1.44E-08	1.37E-08	7.00E-10	0.00E+00	1.44E-08	4.09E-09	1.26E-10	0.00E+00	4.22E-09	1.55E-09	4.06E-11	0.00E+00	1.59E-09
5094	457077.4	3768243	1.393E-08	7.14E-10	0.00E+00	1.46E-08	1.39E-08	7.14E-10	0.00E+00	1.46E-08	4.17E-09	1.28E-10	0.00E+00	4.30E-09	1.58E-09	4.15E-11	0.00E+00	1.62E-09
5095	457333.8	3768482	1.109E-08	5.69E-10	0.00E+00	1.17E-08	1.11E-08	5.69E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
5096	457343.7	3768482	1.138E-08	5.83E-10	0.00E+00	1.20E-08	1.14E-08	5.83E-10	0.00E+00	1.20E-08	3.41E-09	1.05E-10	0.00E+00	3.51E-09	1.29E-09	3.39E-11	0.00E+00	1.32E-09
5097	457353.7	3768482	1.168E-08	5.99E-10	0.00E+00	1.23E-08	1.17E-08	5.99E-10	0.00E+00	1.23E-08	3.50E-09	1.08E-10	0.00E+00	3.60E-09	1.32E-09	3.47E-11	0.00E+00	1.36E-09
5098	457363.7	3768482	1.199E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.59E-09	1.11E-10	0.00E+00	3.70E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
5099	457373.6	3768482	1.233E-08	6.32E-10	0.00E+00	1.30E-08	1.23E-08	6.32E-10	0.00E+00	1.30E-08	3.69E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
5100	457383.6	3768482	1.269E-08	6.51E-10	0.00E+00	1.33E-08	1.27E-08	6.51E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
5101	457393.6	3768482	1.308E-08	6.70E-10	0.00E+00	1.37E-08	1.31E-08	6.70E-10	0.00E+00	1.37E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
5102	457403.6	3768482	1.348E-08	6.91E-10	0.00E+00	1.42E-08	1.35E-08	6.91E-10	0.00E+00	1.42E-08	4.04E-09	1.24E-10	0.00E+00	4.16E-09	1.53E-09	4.01E-11	0.00E+00	1.57E-09
5103	457413.5	3768482	1.392E-08	7.13E-10	0.00E+00	1.46E-08	1.39E-08	7.13E-10	0.00E+00	1.46E-08	4.17E-09	1.28E-10	0.00E+00	4.30E-09	1.58E-09	4.14E-11	0.00E+00	1.62E-09
5104	457423.5	3768482	1.438E-08	7.37E-10	0.00E+00	1.51E-08	1.44E-08	7.37E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.44E-09	1.63E-09	4.28E-11	0.00E+00	1.67E-09
5105	457433.5	3768482	1.488E-08	7.63E-10	0.00E+00	1.56E-08	1.49E-08	7.63E-10	0.00E+00	1.56E-08	4.46E-09	1.37E-10	0.00E+00	4.59E-09	1.69E-09	4.43E-11	0.00E+00	1.73E-09
5106	457443.4	3768482	1.541E-08	7.90E-10	0.00E+00	1.62E-08	1.54E-08	7.90E-10	0.00E+00	1.62E-08	4.62E-09	1.42E-10	0.00E+00	4.76E-09	1.75E-09	4.59E-11	0.00E+00	1.79E-09
5107	457453.4	3768482	1.597E-08	8.19E-10	0.00E+00	1.68E-08	1.60E-08	8.19E-10	0.00E+00	1.68E-08	4.78E-09	1.47E-10	0.00E+00	4.93E-09	1.81E-09	4.75E-11	0.00E+00	1.86E-09
5108	457463.4	3768482	1.656E-08	8.49E-10	0.00E+00	1.74E-08	1.66E-08	8.49E-10	0.00E+00	1.74E-08	4.96E-09	1.53E-10	0.00E+00	5.11E-09	1.88E-09	4.93E-11	0.00E+00	1.93E-09
5109	457473.4	3768482	1.718E-08	8.81E-10	0.00E+00	1.81E-08	1.72E-08	8.81E-10	0.00E+00	1.81E-08	5.15E-09	1.58E-10	0.00E+00	5.30E-09	1.95E-09	5.11E-11	0.00E+00	2.00E-09
5110	457483.3	3768482	1.783E-08	9.14E-10	0.00E+00	1.87E-08	1.78E-08	9.14E-10	0.00E+00	1.87E-08	5.34E-09	1.64E-10	0.00E+00	5.51E-09	2.02E-09	5.31E-11	0.00E+00	2.08E-09
5111	457493.3	3768482	1.852E-08	9.50E-10	0.00E+00	1.95E-08	1.85E-08	9.50E-10	0.00E+00	1.95E-08	5.55E-09	1.71E-10	0.00E+00	5.72E-09	2.10E-09	5.51E-11	0.00E+00	2.16E-09
5112	457503.3	3768482	1.924E-08	9.87E-10	0.00E+00	2.02E-08	1.92E-08	9.87E-10	0.00E+00	2.02E-08	5.76E-09	1.77E-10	0.00E+00	5.94E-09	2.18E-09	5.73E-11	0.00E+00	2.24E-09
5113	457513.2	3768482	1.999E-08	1.02E-09	0.00E+00	2.10E-08	2.00E-08	1.02E-09	0.00E+00	2.10E-08	5.99E-09	1.84E-10	0.00E+00	6.17E-09	2.27E-09	5.95E-11	0.00E+00	2.33E-09
5114	457523.2	3768482	2.075E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.41E-09	2.35E-09	6.17E-11	0.00E+00	2.42E-09
5115	457533.2	3768482	2.153E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.45E-09	1.98E-10	0.00E+00	6.65E-09	2.44E-09	6.41E-11	0.00E+00	2.51E-09
5116	457543.1	3768482	2.234E-08	1.15E-09	0.00E+00	2.35E-08	2.23E-08	1.15E-09	0.00E+00	2.35E-08	6.69E-09	2.06E-10	0.00E+00	6.90E-09	2.53E-09	6.65E-11	0.00E+00	2.60E-09
5117	457553.1	3768482	2.316E-08	1.19E-09	0.00E+00	2.44E-08	2.32E-08	1.19E-09	0.00E+00	2.44E-08	6.94E-09	2.14E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
5118	457563.1	3768482	2.4E-08	1.23E-09	0.00E+00	2.52E-08	2.40E-08	1.23E-09	0.00E+00	2.52E-08	7.19E-09	2.21E-10	0.00E+00	7.41E-09	2.72E-09	7.14E-11	0.00E+00	2.79E-09
5119	457573.1	3768482	2.486E-08	1.27E-09	0.00E+00	2.61E-08	2.49E-08	1.27E-09	0.00E+00	2.61E-08	7.45E-09	2.29E-10	0.00E+00	7.68E-09	2.82E-09	7.40E-11	0.00E+00	2.89E-09
5120	457583	3768482	2.574E-08	1.32E-09	0.00E+00	2.71E-08	2.57E-08	1.32E-09	0.00E+00	2.71E-08	7.71E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.66E-11	0.00E+00	3.00E-09
5121	457593	3768482	2.662E-08	1.36E-09	0.00E+00	2.80E-08	2.66E-08	1.36E-09	0.00E+00	2.80E-08	7.97E-09	2.45E-10	0.00E+00	8.22E-09	3.02E-09	7.92E-11	0.00E+00	3.10E-09
5122	457603	3768482	2.752E-08	1.41E-09	0.00E+00	2.89E-08	2.75E-08	1.41E-09	0.00E+00	2.89E-08	8.24E-09	2.54E-10	0.00E+00	8.49E-09	3.12E-09	8.19E-11	0.00E+00	3.20E-09
5123	457612.9	3768482	2.841E-08	1.46E-09	0.00E+00	2.99E-08	2.84E-08	1.46E-09	0.00E+00	2.99E-08	8.51E-09	2.62E-10	0.00E+00	8.77E-09	3.22E-09	8.45E-11	0.00E+00	3.31E-09
5124	457622.9	3768482	2.93E-08	1.50E-09	0.00E+00	3.08E-08	2.93E-08	1.50E-09	0.00E+00	3.08E-08	8.78E-09	2.70E-10	0.00E+00	9.05E-09	3.32E-09	8.72E-11	0.00E+00	3.41E-09
5125	457632.9	3768482	2.832E-08	1.45E-09	0.00E+00	2.98E-08	2.83E-08	1.45E-09	0.00E+00	2.98E-08	8.48E-09	2.61E-10	0.00E+00	8.74E-09	3.21E-09	8.43E-11	0.00E+00	3.30E-09
5126	457642.8	3768482	2.913E-08	1.49E-09	0.00E+00	3.06E-08	2.91E-08	1.49E-09	0.00E+00	3.06E-08	8.73E-09	2.69E-10	0.00E+00	8.99E-09	3.31E-09	8.67E-11	0.00E+00	3.39E-09
5127	457652.8	3768482	2.995E-08	1.54E-09	0.00E+00	3.15E-08	2.99E-08	1.54E-09	0.00E+00	3.15E-08	8.97E-09	2.76E-10	0.00E+00	9.25E-09	3.40E-09	8.91E-11	0.00E+00	3.49E-09
5128	457662.8	3768482	3.076E-08	1.58E-09	0.00E+00	3.23E-08	3.08E-08	1.58E-09	0.00E+00	3.23E-08	9.21E-09	2.84E-10	0.00E+00	9.50E-09	3.49E-09	9.15E-11	0.00E+00	3.58E-09
5129	457672.8	3768482	3.157E-08	1.62E-09	0.00E+00	3.32E-08	3.16E-08	1.62E-09	0.00E+00	3.32E-08	9.46E-09	2.91E-10	0.00E+00	9.75E-09	3.58E-09	9.40E-11	0.00E+00	3.68E-09
5130	457682.7	3768482	3.238E-08	1.66E-09	0.00E+00	3.40E-08	3.24E-08	1.66E-09	0.00E+00	3.40E-08	9.70E-09	2.98E-10	0.00E+00	1.00E-08	3.67E-09	9.63E-11	0.00E+00	3.77E-09
5131	457692.7	3768482	3.319E-08	1.70E-09	0.00E+00	3.49E-08	3.32E-08	1.70E-09	0.00E+00	3.49E-08	9.94E-09	3.06E-10	0.00E+00	1.02E-08	3.77E-09	9.88E-11	0.00E+00	3.86E-09
5132	457702.7	3768482	3.403E-08	1.74E-09	0.00E+00	3.58E-08	3.40E-08	1.74E-09	0.00E+00	3.58E-08	1.02E-08	3.14E-10	0.00E+00	1.05E-08	3.86E-09	1.01E-10	0.00E+00	3.96E-09
5133	457288.6	3768493	9.555E-09	4.90E-10	0.00E+00	1.00E-08	9.56E-09	4.90E-10	0.00E+00	1.00E-08	2.86E-09	8.81E-11	0.00E+00	2.95E-09	1.08E-09	2.84E-11	0.00E+00	1.11E-09
5134	457279.8	3768489	9.511E-09	4.88E-10	0.00E+00	1.00E-08	9.51E-09	4.88E-10	0.00E+00	1.00E-08	2.85E-09	8.77E-11	0.00E+00	2.94E-09	1.08E-09	2.83E-11	0.00E+00	1.11E-09
5135	457271	3768485	9.465E-09	4.85E-10	0.00E+00	9.95E-09	9.46E-09	4.85E-10	0.00E+00	9.95E-09	2.83E-09	8.72E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
5136	457262.1	3768482	9.419E-09	4.83E-10	0.00E+00	9.90E-09	9.42E-09	4.83E-10	0.00E+00	9.90E-09	2.82E-09	8.68E-11	0.00E+00	2.91E-09	1.07E-09	2.80E-11	0.00E+00	1.10E-09
5137	457253.3	3768478	9.371E-09	4.80E-10	0.00E+00	9.85E-09	9.37E-09	4.80E-10	0.00E+00	9.85E-09	2.81E-09	8.64E-11	0.00E+00	2.89E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
5138	457244.5	3768475	9.32E-09	4.78E-10	0.00E+00	9.80E-09	9.32E-09	4.78E-10	0.00E+00	9.80E-09	2.79E-09	8.59E-11	0.00E+00	2.88E-09	1.06E-09	2.77E-11	0.00E+00	1.09E-09
5139	457235.7	3768471	9.265E-09	4.75E-10	0.00E+00	9.74E-09	9.26E-09	4.75E-10	0.00E+00	9.74E-09	2.77E-09	8.54E-11	0.00E+00	2.86E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
5140	457226.9	3768467	9.207E-09	4.72E-10	0.00E+00	9.68E-09	9.21E-09	4.72E-10	0.00E+00	9.68E-09	2.76E-09	8.49E-11	0.00E+00	2.84E-09	1.04E-09	2.74E-11	0.00E+00	1.07E-09
5141	457218.1	3768464	9.146E-09	4.69E-10	0.00E+00	9.61E-09	9.15E-09	4.69E-10	0.00E+00	9.61E-09	2.74E-09	8.43E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
5142	457209.3	3768460	9.083E-09	4.66E-10	0.00E+00	9.55E-09	9.08E-09	4.66E-10	0.00E+00	9.55E-09	2.72E-09	8.37E-11	0.00E+00	2.80E-09	1.03E-09	2.70E-11	0.00E+00	1.06E-09
5143	457200.5	3768456	9.017E-09	4.62E-10	0.00E+00	9.48E-09	9.02E-09	4.62E-10	0.00E+00	9.48E-09	2.70E-09	8.31E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
5144	457191.7	3768453	8.95E-09	4.59E-10	0.00E+00	9.41E-09	8.95E-09	4.59E-10	0.00E+00	9.41E-09	2.68E-09	8.25E-11	0.00E+00	2.76E-09	1.02E-09	2.66E-11	0.00E+00	1.04E-09
5145	457182.9	3768449	8.88E-09	4.55E-10	0.00E+00	9.34E-09	8.88E-09	4.55E-10	0.00E+00	9.34E-09	2.66E-09	8.19E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
5146	457122.6	3768410	8.766E-09	4.49E-10	0.00E+00	9.22E-09	8.77E-09	4.49E-10	0.00E+00	9.22E-09	2.63E-09	8.08E-11	0.00E+00	2.71E-09	9.95E-10	2.61E-11	0.00E+00	1.02E-09
5147	457118.9	3768401	8.942E-09	4.58E-10	0.00E+00	9.40E-09	8.94E-09	4.58E-10	0.00E+00	9.40E-09	2.68E-09	8.24E-11	0.00E+00	2.76E-09	1.01E-09	2.66E-11	0.00E+00	1.04E-09
5148	457115.2	3768392	9.12E-09	4.68E-10	0.00E+00	9.59E-09	9.12E-09	4.68E-10	0.00E+00	9.59E-09	2.73E-09	8.41E-11	0.00E+00	2.82E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
5149	457111.5	3768384	9.302E-09	4.77E-10	0.00E+00	9.78E-09	9.30E-09	4.77E-10	0.00E+00	9.78E-09	2.79E-09	8.57E-11	0.00E+00	2.87E-09	1.06E-09	2.77E-11	0.00E+00	1.08E-09

5150	457107.8	3768375	9.488E-09	4.86E-10	0.00E+00	9.97E-09	9.49E-09	4.86E-10	0.00E+00	9.97E-09	2.84E-09	8.75E-11	0.00E+00	2.93E-09	1.08E-09	2.82E-11	0.00E+00	1.10E-09
5151	457104.1	3768366	9.681E-09	4.96E-10	0.00E+00	1.02E-08	9.68E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.92E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
5152	457100.4	3768357	9.876E-09	5.06E-10	0.00E+00	1.04E-08	9.88E-09	5.06E-10	0.00E+00	1.04E-08	2.96E-09	9.10E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
5153	457096.8	3768348	1.007E-08	5.16E-10	0.00E+00	1.06E-08	1.01E-08	5.16E-10	0.00E+00	1.06E-08	3.02E-09	9.29E-11	0.00E+00	3.11E-09	1.14E-09	3.00E-11	0.00E+00	1.17E-09
5154	457093.1	3768340	1.027E-08	5.27E-10	0.00E+00	1.08E-08	1.03E-08	5.27E-10	0.00E+00	1.08E-08	3.08E-09	9.47E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
5155	457089.4	3768331	1.048E-08	5.37E-10	0.00E+00	1.10E-08	1.05E-08	5.37E-10	0.00E+00	1.10E-08	3.14E-09	9.66E-11	0.00E+00	3.23E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
5156	457085.7	3768322	1.069E-08	5.48E-10	0.00E+00	1.12E-08	1.07E-08	5.48E-10	0.00E+00	1.12E-08	3.20E-09	9.85E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.24E-09
5157	457082	3768313	1.09E-08	5.59E-10	0.00E+00	1.15E-08	1.09E-08	5.59E-10	0.00E+00	1.15E-08	3.26E-09	1.00E-10	0.00E+00	3.36E-09	1.24E-09	3.24E-11	0.00E+00	1.27E-09
5158	457078.3	3768305	1.111E-08	5.70E-10	0.00E+00	1.17E-08	1.11E-08	5.70E-10	0.00E+00	1.17E-08	3.33E-09	1.02E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.29E-09
5159	457074.6	3768296	1.133E-08	5.81E-10	0.00E+00	1.19E-08	1.13E-08	5.81E-10	0.00E+00	1.19E-08	3.39E-09	1.04E-10	0.00E+00	3.50E-09	1.29E-09	3.37E-11	0.00E+00	1.32E-09
5160	457070.9	3768287	1.155E-08	5.92E-10	0.00E+00	1.21E-08	1.16E-08	5.92E-10	0.00E+00	1.21E-08	3.46E-09	1.06E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.34E-09
5161	457067.2	3768278	1.178E-08	6.04E-10	0.00E+00	1.24E-08	1.18E-08	6.04E-10	0.00E+00	1.24E-08	3.53E-09	1.09E-10	0.00E+00	3.64E-09	1.34E-09	3.50E-11	0.00E+00	1.37E-09
5162	457063.5	3768269	1.2E-08	6.15E-10	0.00E+00	1.26E-08	1.20E-08	6.15E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.57E-11	0.00E+00	1.40E-09
5163	457059.8	3768261	1.223E-08	6.27E-10	0.00E+00	1.29E-08	1.22E-08	6.27E-10	0.00E+00	1.29E-08	3.66E-09	1.13E-10	0.00E+00	3.78E-09	1.39E-09	3.64E-11	0.00E+00	1.42E-09
5164	457056.1	3768252	1.246E-08	6.39E-10	0.00E+00	1.31E-08	1.25E-08	6.39E-10	0.00E+00	1.31E-08	3.73E-09	1.15E-10	0.00E+00	3.85E-09	1.41E-09	3.71E-11	0.00E+00	1.45E-09
5165	457052.4	3768243	1.269E-08	6.51E-10	0.00E+00	1.33E-08	1.27E-08	6.51E-10	0.00E+00	1.33E-08	3.80E-09	1.17E-10	0.00E+00	3.92E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
5166	457333.8	3768507	9.954E-09	5.10E-10	0.00E+00	1.05E-08	9.95E-09	5.10E-10	0.00E+00	1.05E-08	2.98E-09	9.18E-11	0.00E+00	3.07E-09	1.13E-09	2.96E-11	0.00E+00	1.16E-09
5167	457343.7	3768507	1.019E-08	5.22E-10	0.00E+00	1.07E-08	1.02E-08	5.22E-10	0.00E+00	1.07E-08	3.05E-09	9.39E-11	0.00E+00	3.14E-09	1.16E-09	3.03E-11	0.00E+00	1.19E-09
5168	457353.7	3768507	1.043E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.12E-09	9.61E-11	0.00E+00	3.22E-09	1.18E-09	3.10E-11	0.00E+00	1.21E-09
5169	457363.7	3768507	1.069E-08	5.48E-10	0.00E+00	1.12E-08	1.07E-08	5.48E-10	0.00E+00	1.12E-08	3.20E-09	9.85E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.24E-09
5170	457373.7	3768507	1.096E-08	5.62E-10	0.00E+00	1.15E-08	1.10E-08	5.62E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.28E-09
5171	457383.6	3768507	1.124E-08	5.76E-10	0.00E+00	1.18E-08	1.12E-08	5.76E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
5172	457393.6	3768507	1.155E-08	5.92E-10	0.00E+00	1.21E-08	1.15E-08	5.92E-10	0.00E+00	1.21E-08	3.46E-09	1.06E-10	0.00E+00	3.56E-09	1.31E-09	3.44E-11	0.00E+00	1.34E-09
5173	457403.6	3768507	1.187E-08	6.08E-10	0.00E+00	1.25E-08	1.19E-08	6.08E-10	0.00E+00	1.25E-08	3.55E-09	1.09E-10	0.00E+00	3.66E-09	1.35E-09	3.53E-11	0.00E+00	1.38E-09
5174	457413.5	3768507	1.221E-08	6.26E-10	0.00E+00	1.28E-08	1.22E-08	6.26E-10	0.00E+00	1.28E-08	3.66E-09	1.13E-10	0.00E+00	3.77E-09	1.39E-09	3.63E-11	0.00E+00	1.42E-09
5175	457423.5	3768507	1.258E-08	6.45E-10	0.00E+00	1.32E-08	1.26E-08	6.45E-10	0.00E+00	1.32E-08	3.77E-09	1.16E-10	0.00E+00	3.88E-09	1.43E-09	3.74E-11	0.00E+00	1.46E-09
5176	457433.5	3768507	1.297E-08	6.65E-10	0.00E+00	1.36E-08	1.30E-08	6.65E-10	0.00E+00	1.36E-08	3.89E-09	1.20E-10	0.00E+00	4.00E-09	1.47E-09	3.86E-11	0.00E+00	1.51E-09
5177	457443.5	3768507	1.339E-08	6.86E-10	0.00E+00	1.41E-08	1.34E-08	6.86E-10	0.00E+00	1.41E-08	4.01E-09	1.23E-10	0.00E+00	4.13E-09	1.52E-09	3.98E-11	0.00E+00	1.56E-09
5178	457453.4	3768507	1.383E-08	7.09E-10	0.00E+00	1.45E-08	1.38E-08	7.09E-10	0.00E+00	1.45E-08	4.14E-09	1.28E-10	0.00E+00	4.27E-09	1.57E-09	4.12E-11	0.00E+00	1.61E-09
5179	457463.4	3768507	1.43E-08	7.33E-10	0.00E+00	1.50E-08	1.43E-08	7.33E-10	0.00E+00	1.50E-08	4.28E-09	1.32E-10	0.00E+00	4.42E-09	1.62E-09	4.26E-11	0.00E+00	1.67E-09
5180	457473.4	3768507	1.48E-08	7.59E-10	0.00E+00	1.56E-08	1.48E-08	7.59E-10	0.00E+00	1.56E-08	4.43E-09	1.36E-10	0.00E+00	4.57E-09	1.68E-09	4.40E-11	0.00E+00	1.72E-09
5181	457483.3	3768507	1.532E-08	7.86E-10	0.00E+00	1.61E-08	1.53E-08	7.86E-10	0.00E+00	1.61E-08	4.59E-09	1.41E-10	0.00E+00	4.73E-09	1.74E-09	4.56E-11	0.00E+00	1.78E-09
5182	457493.3	3768507	1.587E-08	8.13E-10	0.00E+00	1.67E-08	1.59E-08	8.13E-10	0.00E+00	1.67E-08	4.75E-09	1.46E-10	0.00E+00	4.90E-09	1.80E-09	4.72E-11	0.00E+00	1.85E-09
5183	457503.3	3768507	1.643E-08	8.43E-10	0.00E+00	1.73E-08	1.64E-08	8.43E-10	0.00E+00	1.73E-08	4.92E-09	1.51E-10	0.00E+00	5.07E-09	1.86E-09	4.89E-11	0.00E+00	1.91E-09
5184	457513.2	3768507	1.703E-08	8.73E-10	0.00E+00	1.79E-08	1.70E-08	8.73E-10	0.00E+00	1.79E-08	5.10E-09	1.57E-10	0.00E+00	5.26E-09	1.93E-09	5.07E-11	0.00E+00	1.98E-09
5185	457523.2	3768507	1.764E-08	9.04E-10	0.00E+00	1.85E-08	1.76E-08	9.04E-10	0.00E+00	1.85E-08	5.28E-09	1.63E-10	0.00E+00	5.44E-09	2.00E-09	5.25E-11	0.00E+00	2.05E-09
5186	457533.2	3768507	1.827E-08	9.37E-10	0.00E+00	1.92E-08	1.83E-08	9.37E-10	0.00E+00	1.92E-08	5.47E-09	1.68E-10	0.00E+00	5.64E-09	2.07E-09	5.44E-11	0.00E+00	2.13E-09
5187	457543.2	3768507	1.893E-08	9.70E-10	0.00E+00	1.99E-08	1.89E-08	9.70E-10	0.00E+00	1.99E-08	5.67E-09	1.74E-10	0.00E+00	5.84E-09	2.15E-09	5.63E-11	0.00E+00	2.20E-09
5188	457553.1	3768507	1.961E-08	1.01E-09	0.00E+00	2.06E-08	1.96E-08	1.01E-09	0.00E+00	2.06E-08	5.87E-09	1.81E-10	0.00E+00	6.05E-09	2.22E-09	5.83E-11	0.00E+00	2.28E-09
5189	457563.1	3768507	2.031E-08	1.04E-09	0.00E+00	2.13E-08	2.03E-08	1.04E-09	0.00E+00	2.13E-08	6.08E-09	1.87E-10	0.00E+00	6.27E-09	2.30E-09	6.04E-11	0.00E+00	2.36E-09
5190	457573.1	3768507	1.949E-08	9.99E-10	0.00E+00	2.05E-08	1.95E-08	9.99E-10	0.00E+00	2.05E-08	5.84E-09	1.80E-10	0.00E+00	6.02E-09	2.21E-09	5.80E-11	0.00E+00	2.27E-09
5191	457583	3768507	2.014E-08	1.03E-09	0.00E+00	2.12E-08	2.01E-08	1.03E-09	0.00E+00	2.12E-08	6.03E-09	1.86E-10	0.00E+00	6.22E-09	2.28E-09	5.99E-11	0.00E+00	2.34E-09
5192	457593	3768507	2.08E-08	1.07E-09	0.00E+00	2.19E-08	2.08E-08	1.07E-09	0.00E+00	2.19E-08	6.23E-09	1.92E-10	0.00E+00	6.42E-09	2.36E-09	6.19E-11	0.00E+00	2.42E-09
5193	457603	3768507	2.149E-08	1.10E-09	0.00E+00	2.26E-08	2.15E-08	1.10E-09	0.00E+00	2.26E-08	6.44E-09	1.98E-10	0.00E+00	6.63E-09	2.44E-09	6.39E-11	0.00E+00	2.50E-09
5194	457612.9	3768507	2.222E-08	1.14E-09	0.00E+00	2.34E-08	2.22E-08	1.14E-09	0.00E+00	2.34E-08	6.65E-09	2.05E-10	0.00E+00	6.86E-09	2.52E-09	6.61E-11	0.00E+00	2.59E-09
5195	457622.9	3768507	2.296E-08	1.18E-09	0.00E+00	2.41E-08	2.30E-08	1.18E-09	0.00E+00	2.41E-08	6.88E-09	2.12E-10	0.00E+00	7.09E-09	2.60E-09	6.83E-11	0.00E+00	2.67E-09
5196	457632.9	3768507	2.368E-08	1.21E-09	0.00E+00	2.49E-08	2.37E-08	1.21E-09	0.00E+00	2.49E-08	7.09E-09	2.18E-10	0.00E+00	7.31E-09	2.69E-09	7.05E-11	0.00E+00	2.76E-09
5197	457642.9	3768507	2.436E-08	1.25E-09	0.00E+00	2.56E-08	2.44E-08	1.25E-09	0.00E+00	2.56E-08	7.30E-09	2.25E-10	0.00E+00	7.52E-09	2.76E-09	7.25E-11	0.00E+00	2.84E-09
5198	457652.8	3768507	2.504E-08	1.28E-09	0.00E+00	2.63E-08	2.50E-08	1.28E-09	0.00E+00	2.63E-08	7.50E-09	2.31E-10	0.00E+00	7.73E-09	2.84E-09	7.45E-11	0.00E+00	2.92E-09
5199	457662.8	3768507	2.575E-08	1.32E-09	0.00E+00	2.71E-08	2.58E-08	1.32E-09	0.00E+00	2.71E-08	7.71E-09	2.37E-10	0.00E+00	7.95E-09	2.92E-09	7.66E-11	0.00E+00	3.00E-09
5200	457672.8	3768507	2.652E-08	1.36E-09	0.00E+00	2.79E-08	2.65E-08	1.36E-09	0.00E+00	2.79E-08	7.94E-09	2.44E-10	0.00E+00	8.19E-09	3.01E-09	7.89E-11	0.00E+00	3.09E-09
5201	457682.7	3768507	2.728E-08	1.40E-09	0.00E+00	2.87E-08	2.73E-08	1.40E-09	0.00E+00	2.87E-08	8.17E-09	2.51E-10	0.00E+00	8.42E-09	3.09E-09	8.12E-11	0.00E+00	3.18E-09
5202	457692.7	3768507	2.802E-08	1.44E-09	0.00E+00	2.95E-08	2.80E-08	1.44E-09	0.00E+00	2.95E-08	8.39E-09	2.58E-10	0.00E+00	8.65E-09	3.18E-09	8.34E-11	0.00E+00	3.26E-09
5203	457702.7	3768507	2.873E-08	1.47E-09	0.00E+00	3.02E-08	2.87E-08	1.47E-09	0.00E+00	3.02E-08	8.60E-09	2.65E-10	0.00E+00	8.87E-09	3.26E-09	8.55E-11	0.00E+00	3.34E-09
5204	457296.2	3768521	8.701E-09	4.46E-10	0.00E+00	9.15E-09	8.70E-09	4.46E-10	0.00E+00	9.15E-09	2.61E-09	8.02E-11	0.00E+00	2.69E-09	9.87E-10	2.59E-11	0.00E+00	1.01E-09
5205	457287.1	3768517	8.665E-09	4.44E-10	0.00E+00	9.11E-09	8.66E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
5206	457277.9	3768513	8.627E-09	4.42E-10	0.00E+00	9.07E-09	8.63E-09	4.42E-10	0.00E+00	9.07E-09	2.58E-09	7.95E-11	0.00E+00	2.66E-09	9.79E-10	2.57E-11	0.00E+00	1.00E-09
5207	457268.7	3768509	8.589E-09	4.40E-10	0.00E+00	9.03E-09	8.59E-09	4.40E-10	0.00E+00	9.03E-09	2.57E-09	7.92E-11	0.00E+00	2.65E-09	9.74E-10	2.56E-11	0.00E+00	1.00E-09
5208	457259.5	3768506	8.552E-09	4.38E-10	0.00E+00	8.99E-09	8.55E-09	4.38E-10	0.00E+00	8.99E-09	2.56E-09	7.88E-11	0.00E+00	2.64E-09	9.70E-10	2.54E-11	0.00E+00	9.96E-10
5209	457250.3	3768502	8.514E-09	4.36E-10	0.00E+00	8.95E-09	8.51E-09	4.36E-10	0.00E+00	8.95E-09	2.55E-09	7.85E-11	0.00E+00	2.63E-09	9.66E-10	2.53E-11	0.00E+00	9.91E-10
5210	457241.1	3768498	8.475E-09	4.34E-10	0.00E+00	8.91E-09	8.48E-09	4.34E-10	0.00E+00	8.91E-09	2.54E-09	7.81E-11	0.00E+00	2.62E-09	9.62E-10	2.52E-11	0.00E+00	9.87E-10
5211	457231.9	3768494	8.43E-09	4.32E-10	0.00E+00	8.86E-09	8.43E-09	4.32E-10	0.00E+00	8.86E-09	2.53E-09	7.77E-11	0.00E+00	2.60E-09	9.56E-10	2.51E-11	0.00E+00	9.82E-10
5212	457222.7	3768491	8.382E-09	4.30E-10	0.00E+00	8.81E-09	8.38E-09	4.30E-10	0.00E+00	8.81E-09	2.51E-09	7.73E-11	0.00E+00	2.59E-09	9.51E-10	2.49E-11	0.00E+00	9.76E-10
5213	457213.5	3768487	8.332E-09	4.27E-10	0.00E+00	8.76E-09	8.33E-09	4.27E-10	0.00E+00	8.76E-09	2.50E-09	7.68E-11	0.00E+00	2.57E-09	9.45E-10	2.48E-11	0.00E+00	9.70E-10
5214	457204.3	3768483	8.279E-09	4.24E-10	0.00E+00	8.70E-09	8.28E-09	4.24E-10	0.00E+00	8.70E-09	2.48E-09	7.63E-11	0.00E+00	2.56E-09	9.39E-10	2.46E-11	0.00E+00	9.64E-10
5215	457195.1	3768479	8.223E-09	4.22E-10	0.00E+00	8.64E-09	8.22E-09	4.22E-10	0.00E+00	8.64E-09	2.46E-09	7.58E-11	0.00E+00	2.54E-09	9.33E-10	2.45E-11	0.00E+00	9.57E-10
5216	457185.9	3768475	8.166E-09	4.19E-10	0.00E+00	8.58E-09	8.17E-09	4.19E-10	0.00E+00	8.58E-09	2.45E-09	7.53E-11	0.00E+00	2.52E-09	9.26E-10	2.43E-11	0.00E+00	9.51E-10
5217	457176.8	3768472	8.106E-09	4.16E-10	0.00E+00	8.52E-09	8.11E-09	4.16E-10	0.00E+00	8.52E-09	2.43E-09	7.47E-11	0.00E+00	2.50E-09	9.20E-10	2.41E-11	0.00E+00	9.44E-10
5218	457167.6	3768468	8.044E-09	4.12E-10	0.00E+00	8.46E-09	8.04E-09	4.12E-10	0.00E+00	8.46E-09	2.41E-09	7.41E-11	0.00E+00	2.48E-09	9.13E-10	2.39E-11	0.00E+00	9.37E-10
5219	457158.4	3768464	7.98E-09	4.09E-10	0.00E+00	8.39E-09	7.98E-09	4.09E-10	0.00E+00	8.39E-09	2.39E-09	7.36E-11	0.00E+00	2.46E-09	9.05E-10	2.37E-11	0.00E+00	9.29E-10
5220	457149.2	3768460	7.914E-09	4.06E-10	0.00E+00	8.32E-09	7.91E-09	4.06E-10	0.00E+00	8.32E-09	2.37E-09	7.30E-11	0.00E+00	2.44E-09	8.98E-10	2.35E-11	0.00E+00	9.21E-10
5221	457140	3768457	7.846E-09	4.02E-10	0.00E+00	8.25E-09	7.85E-09	4.02E-10	0.00E+00	8.25E-09	2.35E-09	7.23E-11	0.00E+00	2.42E-09	8.90E-10	2.33E-11	0.00E+00	9.13E-10
5222	457130.8	3768453	7.776E-09	3.99E-10	0.00E+00	8.17E-09	7.78E-09	3.99E-10	0.00E+00	8.17E-09	2.33E-09	7.17E-11	0.00E+00	2.40E-09	8.82E-10	2.31E-11	0.00E+00	9.05E-10
5223	457121.6	3768449	7.705E-09	3.95E-10	0.00E+00	8.10E-09	7.71E-09	3.95E-10	0.00E+00	8.10E-09	2.31E-09	7.10E-11	0.00E+00	2.38E-09	8.74E-10	2.29E-11	0.00E+00	8.97E-10
5224	457097	3768409	8.252E-09	4.23E-10	0.00E+00	8.67E-09	8.25E-09	4.23E-10	0.00E+00	8.67E-09	2.47E-09	7.61E-11	0.00E+00	2.55E-09	9.36E-10	2.46E-11	0.00E+00	9.61E-10
5225	457093.1	3768399	8.412E-09	4.31E-10	0.00E+00	8.84E-09	8.41E-09	4.31E-10	0.00E+00	8.84E-09	2.52E-09	7.75E-11	0.00E+00	2.60E-09	9.54E-10	2.50E-11	0.00E+00	9.79E-10
5226	457089.3	3768390	8.576E-09	4.40E-10	0.00E+00	9.02E-09	8.58E-09	4.40E-10	0.00E+00	9.02E-09	2.57E-09	7.91E-11	0.00E+00	2.65E-09	9.73E-10	2.55E-11	0.00E+00	9.99E-10
5227	457085.4	3768381	8.743E-09	4.48E-10	0.00E+00	9.19E-09	8.74E-09	4.48E-10	0.00E+00	9.19E-09	2.62E-09	8.06E-11	0.00E+00	2.70E-09	9.92E-10	2.60E-11	0.00E+00	1.02E-09
5228	457081.6	3768372	8.914E-09	4.57E-10	0.00E+00	9.37E-09	8.91E-09	4.57E-10	0.00E+00	9.37E-09	2.67E-09	8.22E-11	0.00E+00	2.75E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
5229	457077.7	3768363	9.091E-09	4.66E-10	0.00E+00	9.56E-09	9.09E-09	4.66E-10	0.00E+00	9.56E-09	2.72E-09	8.38E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
5230	457073.8	3768354	9.269E-09	4.75E-10	0.00E+00	9.74E-09	9.27E-09	4.75E-10	0.00E+00	9.74E-09	2.78E-09	8.54E-11	0.00E+00	2.86E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
5231	457070	3768344	9.449E-09	4.84E-10	0.00E+00	9.93E-09	9.45E-09	4.84E-10	0.00E+00	9.93E-09	2.83E-09	8.71E-11	0.00E+00	2.92E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
5232	457066.1	3768335	9.632E-09	4.94E-10	0.00E+00	1.01E-08	9.63E-09	4.94E-10	0.00E+00	1.01E-08	2.88E-09	8.88E-11	0.00E+00	2.97E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
5233	457062.3	3768326	9.817E-09	5.03E-10	0.00E+00	1.03E-08	9.82E-09	5.03E-10	0.00E+00	1.03E-08	2.94E-09	9.05E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
5234	457058.4	3768317	1.001E-08	5.13E-10	0.00E+00	1.05E-08	1.00E-08	5.13E-10	0.00E+00	1.05E-08	3.00E-09	9.22E-11	0.00E+00	3.09E-09	1.14E-09	2.98E-11	0.00E+00	1.17E-09
5235	457054.6	3768308	1.02E-08	5.23E-10	0.00E+00	1.07E-08	1.02E-08	5.23E-10	0.00E+00	1.07E-08	3.05E-09	9.40E-11	0.00E+00	3.15E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
5236	457050.7	3768299	1.04E-08	5.33E-10	0.00E+00	1.09E-08	1.04E-08	5.33E-10	0.00E+00	1.09E-08	3.11E-09	9.58E-11	0.00E+00	3.21E-09	1.18E-09	3.09E-11	0.00E+00	1.21E-09
5237	457046.8	3768289	1.06E-08	5.43E-10	0.00E+00	1.11E-08	1.06E-08	5.43E-10	0.00E+00	1.11E-08	3.17E-09	9.77E-11	0.00E+00	3.27E-09	1.20E-09	3.15E-11	0.00E+00	1.23E-09
5238	457043	3768280	1.08E-08	5.54E-10	0.00E+00	1.14E-08	1.08E-08	5.54E-10	0.00E+00	1.14E-08	3.23E-09	9.95E-11	0.00E+00	3.33E-09	1.22E-09	3.21E-11	0.00E+00	1.26E-09
5239	457039.1	3768271	1.1E-08	5.64E-10	0.00E+00	1.16E-08	1.10E-08	5.64E-10	0.00E+00	1.16E-08	3.29E-09	1.01E-10	0.00E+00	3.40E-09	1.25E-09	3.27E-11	0.00E+00	1.28E-09
5240	457035.3	3768262	1.12E-08	5.74E-10	0.00E+00	1.18E-08	1.12E-08	5.74E-10	0.00E+00	1.18E-08	3.36E-09	1.03E-10	0.00E+00	3.46E-09	1.27E-09	3.33E-11	0.00E+00	1.30E-09
5241	457031.4	3768253	1.141E-08	5.85E-10	0.00E+00	1.20E-08	1.14E-08	5.85E-10	0.00E+00	1.20E-08	3.42E-09	1.05E-10	0.00E+00	3.52E-09	1.29E-09	3.39E-11	0.00E+00	1.33E-09
5242	457027.6	3768244	1.161E-08	5.95E-10	0.00E+00	1.22E-08	1.16E-08	5.95E-10	0.00E+00	1.22E-08	3.48E-09	1.07E-10	0.00E+00	3.59E-09	1.32E-09	3.46E-11	0.00E+00	1.35E-09
5243	457333.8	3768532	8.988E-09	4.61E-10	0.00E+00	9.45E-09	8.99E-09	4.61E-10	0.00E+00	9.45E-09	2.69E-09	8.28E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.05E-09
5244	457343.8	3768532	9.179E-09	4.71E-10	0.00E+00	9.65E-09	9.18E-09	4.71E-10	0.00E+00	9.65E-09	2.75E-09	8.46E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
5245	457353.7	3768532	9.38E-09	4.81E-10	0.00E+00	9.86E-09	9.38E-09	4.81E-10	0.00E+00	9.86E-09	2.81E-09	8.65E-11	0.00E+00	2.90E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
5246	457363.7	3768532	9.59E-09	4.92E-10	0.00E+00	1.01E-08	9.59E-09	4.92E-10	0.00E+00	1.01E-08	2.87E-09	8.84E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
5247	457373.7	3768532	9.807E-09	5.03E-10	0.00E+00	1.03E-08	9.81E-09	5.03E-10	0.00E+00	1.03E-08	2.94E-09	9.04E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
5248	457383.6	3768532	1.004E-08	5.15E-10	0.00E+00	1.06E-08	1.00E-08	5.15E-10	0.00E+00	1.06E-08	3.01E-09	9.25E-11	0.00E+00	3.10E-09	1.14E-09	2.99E-11	0.00E+00	1.17E-09
5249	457393.6	3768532	1.028E-08	5.27E-10	0.00E+00	1.08E-08	1.03E-08	5.27E-10	0.00E+00	1.08E-08	3.08E-09	9.48E-11	0.00E+00	3.17E-09	1.17E-09	3.06E-11	0.00E+00	1.20E-09
5250	457403.6	3768532	1.055E-08	5.41E-10	0.00E+00	1.11E-08	1.05E-08	5.41E-10	0.00E+00	1.11E-08	3.16E-09	9.72E-11	0.00E+00	3.26E-09	1.20E-09	3.14E-11	0.00E+00	1.23E-09
5251	457413.6	3768532	1.083E-08	5.55E-10	0.00E+00	1.14E-08	1.08E-08	5.55E-10	0.00E+00	1.14E-08	3.24E-09	9.98E-11	0.00E+00	3.34E-09	1.23E-09	3.22E-11	0.00E+00	1.26E-09
5252	457423.5	3768532	1.112E-08	5.70E-10	0.00E+00	1.17E-08	1.11E-08	5.70E-10	0.00E+00	1.17E-08	3.33E-09	1.03E-10	0.00E+00	3.43E-09	1.26E-09	3.31E-11	0.00E+00	1.30E-09
5253	457433.5	3768532	1.144E-08	5.86E-10	0.00E+00	1.20E-08	1.14E-08	5.86E-10	0.00E+00	1.20E-08	3.43E-09	1.05E-10	0.00E+00	3.53E-09	1.30E-09	3.40E-11	0.00E+00	1.33E-09
5254	457443.5	3768532	1.177E-08	6.04E-10	0.00E+00	1.24E-08	1.18E-08	6.04E-10	0.00E+00	1.24E-08	3.53E-09	1.09E-10	0.00E+00	3.63E-09	1.34E-09	3.50E-11	0.00E+00	1.37E-09
5255	457453.4	3768532	1.213E-08	6.22E-10	0.00E+00	1.27E-08	1.21E-08	6.22E-10	0.00E+00	1.27E-08	3.63E-09	1.12E-10	0.00E+00	3.74E-09	1.38E-09	3.61E-11	0.00E+00	1.41E-09
5256	457463.4	3768532	1.25E-08	6.41E-10	0.00E+00	1.31E-08	1.25E-08	6.41E-10	0.00E+00	1.31E-08	3.75E-09	1.15E-10	0.00E+00	3.86E-09	1.42E-09	3.72E-11	0.00E+00	1.46E-09
5257	457473.4	3768532	1.29E-08	6.61E-10	0.00E+00	1.36E-08	1.29E-08	6.61E-10	0.00E+00	1.36E-08	3.86E-09	1.19E-10	0.00E+00	3.98E-09	1.46E-09	3.84E-11	0.00E+00	1.50E-09
5258	457483.3	3768532	1.332E-08	6.83E-10	0.00E+00	1.40E-08	1.33E-08	6.83E-10	0.00E+00	1.40E-08	3.99E-09	1.23E-10	0.00E+00	4.11E-09	1.51E-09	3.96E-11	0.00E+00	1.55E-09
5259	457493.3	3768532	1.375E-08	7.05E-10	0.00E+00	1.45E-08	1.38E-08	7.05E-10	0.00E+00	1.45E-08	4.12E-09	1.27E-10	0.00E+00	4.25E-09	1.56E-09	4.09E-11	0.00E+00	1.60E-09
5260	457503.3	3768532	1.42E-08	7.28E-10	0.00E+00	1.49E-08	1.42E-08	7.28E-10	0.00E+00	1.49E-08	4.25E-09	1.31E-10	0.00E+00	4.38E-09	1.61E-09	4.23E-11	0.00E+00	1.65E-09
5261	457513.3	3768532	1.468E-08	7.53E-10	0.00E+00	1.54E-08	1.47E-08	7.53E-10	0.00E+00	1.54E-08	4.40E-09	1.35E-10	0.00E+00	4.53E-09	1.67E-09	4.37E-11	0.00E+00	1.71E-09

5262	457523.2	3768532	1.518E-08	7.78E-10	0.00E+00	1.60E-08	1.52E-08	7.78E-10	0.00E+00	1.60E-08	4.55E-09	1.40E-10	0.00E+00	4.69E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
5263	457533.2	3768532	1.571E-08	8.05E-10	0.00E+00	1.65E-08	1.57E-08	8.05E-10	0.00E+00	1.65E-08	4.70E-09	1.45E-10	0.00E+00	4.85E-09	1.78E-09	4.67E-11	0.00E+00	1.83E-09
5264	457543.2	3768532	1.509E-08	7.73E-10	0.00E+00	1.59E-08	1.51E-08	7.73E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
5265	457553.1	3768532	1.557E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
5266	457563.1	3768532	1.608E-08	8.24E-10	0.00E+00	1.69E-08	1.61E-08	8.24E-10	0.00E+00	1.69E-08	4.82E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
5267	457573.1	3768532	1.658E-08	8.50E-10	0.00E+00	1.74E-08	1.66E-08	8.50E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.93E-11	0.00E+00	1.93E-09
5268	457583	3768532	1.707E-08	8.75E-10	0.00E+00	1.79E-08	1.71E-08	8.75E-10	0.00E+00	1.79E-08	5.11E-09	1.57E-10	0.00E+00	5.27E-09	1.94E-09	5.08E-11	0.00E+00	1.99E-09
5269	457593	3768532	1.756E-08	9.00E-10	0.00E+00	1.85E-08	1.76E-08	9.00E-10	0.00E+00	1.85E-08	5.26E-09	1.62E-10	0.00E+00	5.42E-09	1.99E-09	5.23E-11	0.00E+00	2.04E-09
5270	457603	3768532	1.81E-08	9.28E-10	0.00E+00	1.90E-08	1.81E-08	9.28E-10	0.00E+00	1.90E-08	5.42E-09	1.67E-10	0.00E+00	5.59E-09	2.05E-09	5.39E-11	0.00E+00	2.11E-09
5271	457613	3768532	1.87E-08	9.59E-10	0.00E+00	1.97E-08	1.87E-08	9.59E-10	0.00E+00	1.97E-08	5.60E-09	1.72E-10	0.00E+00	5.77E-09	2.12E-09	5.56E-11	0.00E+00	2.18E-09
5272	457622.9	3768532	1.931E-08	9.90E-10	0.00E+00	2.03E-08	1.93E-08	9.90E-10	0.00E+00	2.03E-08	5.78E-09	1.78E-10	0.00E+00	5.96E-09	2.19E-09	5.75E-11	0.00E+00	2.25E-09
5273	457632.9	3768532	1.994E-08	1.02E-09	0.00E+00	2.10E-08	1.99E-08	1.02E-09	0.00E+00	2.10E-08	5.97E-09	1.84E-10	0.00E+00	6.16E-09	2.26E-09	5.93E-11	0.00E+00	2.32E-09
5274	457642.9	3768532	2.058E-08	1.06E-09	0.00E+00	2.16E-08	2.06E-08	1.06E-09	0.00E+00	2.16E-08	6.16E-09	1.90E-10	0.00E+00	6.35E-09	2.33E-09	6.12E-11	0.00E+00	2.40E-09
5275	457652.8	3768532	2.123E-08	1.09E-09	0.00E+00	2.23E-08	2.12E-08	1.09E-09	0.00E+00	2.23E-08	6.36E-09	1.96E-10	0.00E+00	6.55E-09	2.41E-09	6.32E-11	0.00E+00	2.47E-09
5276	457662.8	3768532	2.187E-08	1.12E-09	0.00E+00	2.30E-08	2.19E-08	1.12E-09	0.00E+00	2.30E-08	6.55E-09	2.02E-10	0.00E+00	6.75E-09	2.48E-09	6.51E-11	0.00E+00	2.55E-09
5277	457672.8	3768532	2.251E-08	1.15E-09	0.00E+00	2.37E-08	2.25E-08	1.15E-09	0.00E+00	2.37E-08	6.74E-09	2.08E-10	0.00E+00	6.95E-09	2.55E-09	6.70E-11	0.00E+00	2.62E-09
5278	457682.7	3768532	2.315E-08	1.19E-09	0.00E+00	2.43E-08	2.31E-08	1.19E-09	0.00E+00	2.43E-08	6.93E-09	2.13E-10	0.00E+00	7.15E-09	2.63E-09	6.89E-11	0.00E+00	2.70E-09
5279	457692.7	3768532	2.377E-08	1.22E-09	0.00E+00	2.50E-08	2.38E-08	1.22E-09	0.00E+00	2.50E-08	7.12E-09	2.19E-10	0.00E+00	7.34E-09	2.70E-09	7.07E-11	0.00E+00	2.77E-09
5280	457702.7	3768532	2.434E-08	1.25E-09	0.00E+00	2.56E-08	2.43E-08	1.25E-09	0.00E+00	2.56E-08	7.29E-09	2.24E-10	0.00E+00	7.51E-09	2.76E-09	7.24E-11	0.00E+00	2.83E-09
5281	457296.3	3768546	7.925E-09	4.06E-10	0.00E+00	8.33E-09	7.92E-09	4.06E-10	0.00E+00	8.33E-09	2.37E-09	7.31E-11	0.00E+00	2.45E-09	8.99E-10	2.36E-11	0.00E+00	9.23E-10
5282	457287.2	3768542	7.901E-09	4.05E-10	0.00E+00	8.31E-09	7.90E-09	4.05E-10	0.00E+00	8.31E-09	2.37E-09	7.28E-11	0.00E+00	2.44E-09	8.96E-10	2.35E-11	0.00E+00	9.20E-10
5283	457278	3768538	7.875E-09	4.04E-10	0.00E+00	8.28E-09	7.88E-09	4.04E-10	0.00E+00	8.28E-09	2.36E-09	7.26E-11	0.00E+00	2.43E-09	8.93E-10	2.34E-11	0.00E+00	9.17E-10
5284	457268.9	3768535	7.847E-09	4.02E-10	0.00E+00	8.25E-09	7.85E-09	4.02E-10	0.00E+00	8.25E-09	2.35E-09	7.23E-11	0.00E+00	2.42E-09	8.90E-10	2.34E-11	0.00E+00	9.14E-10
5285	457259.7	3768531	7.817E-09	4.01E-10	0.00E+00	8.22E-09	7.82E-09	4.01E-10	0.00E+00	8.22E-09	2.34E-09	7.21E-11	0.00E+00	2.41E-09	8.87E-10	2.33E-11	0.00E+00	9.10E-10
5286	457250.5	3768527	7.785E-09	3.99E-10	0.00E+00	8.18E-09	7.78E-09	3.99E-10	0.00E+00	8.18E-09	2.33E-09	7.18E-11	0.00E+00	2.40E-09	8.83E-10	2.32E-11	0.00E+00	9.06E-10
5287	457241.4	3768523	7.752E-09	3.97E-10	0.00E+00	8.15E-09	7.75E-09	3.97E-10	0.00E+00	8.15E-09	2.32E-09	7.15E-11	0.00E+00	2.39E-09	8.80E-10	2.31E-11	0.00E+00	9.03E-10
5288	457232.2	3768519	7.718E-09	3.96E-10	0.00E+00	8.11E-09	7.72E-09	3.96E-10	0.00E+00	8.11E-09	2.31E-09	7.11E-11	0.00E+00	2.38E-09	8.76E-10	2.30E-11	0.00E+00	8.99E-10
5289	457223.1	3768516	7.682E-09	3.94E-10	0.00E+00	8.08E-09	7.68E-09	3.94E-10	0.00E+00	8.08E-09	2.30E-09	7.08E-11	0.00E+00	2.37E-09	8.72E-10	2.29E-11	0.00E+00	8.94E-10
5290	457213.9	3768512	7.644E-09	3.92E-10	0.00E+00	8.04E-09	7.64E-09	3.92E-10	0.00E+00	8.04E-09	2.29E-09	7.05E-11	0.00E+00	2.36E-09	8.67E-10	2.27E-11	0.00E+00	8.90E-10
5291	457204.7	3768508	7.604E-09	3.90E-10	0.00E+00	7.99E-09	7.60E-09	3.90E-10	0.00E+00	7.99E-09	2.28E-09	7.01E-11	0.00E+00	2.35E-09	8.63E-10	2.26E-11	0.00E+00	8.85E-10
5292	457195.6	3768504	7.562E-09	3.88E-10	0.00E+00	7.95E-09	7.56E-09	3.88E-10	0.00E+00	7.95E-09	2.26E-09	6.97E-11	0.00E+00	2.33E-09	8.58E-10	2.25E-11	0.00E+00	8.80E-10
5293	457186.4	3768501	7.518E-09	3.85E-10	0.00E+00	7.90E-09	7.52E-09	3.85E-10	0.00E+00	7.90E-09	2.25E-09	6.93E-11	0.00E+00	2.32E-09	8.53E-10	2.24E-11	0.00E+00	8.75E-10
5294	457177.3	3768497	7.471E-09	3.83E-10	0.00E+00	7.85E-09	7.47E-09	3.83E-10	0.00E+00	7.85E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.22E-11	0.00E+00	8.70E-10
5295	457168.1	3768493	7.421E-09	3.80E-10	0.00E+00	7.80E-09	7.42E-09	3.80E-10	0.00E+00	7.80E-09	2.22E-09	6.84E-11	0.00E+00	2.29E-09	8.42E-10	2.21E-11	0.00E+00	8.64E-10
5296	457158.9	3768489	7.37E-09	3.78E-10	0.00E+00	7.75E-09	7.37E-09	3.78E-10	0.00E+00	7.75E-09	2.21E-09	6.79E-11	0.00E+00	2.28E-09	8.36E-10	2.19E-11	0.00E+00	8.58E-10
5297	457149.8	3768486	7.316E-09	3.75E-10	0.00E+00	7.69E-09	7.32E-09	3.75E-10	0.00E+00	7.69E-09	2.19E-09	6.74E-11	0.00E+00	2.26E-09	8.30E-10	2.18E-11	0.00E+00	8.52E-10
5298	457140.6	3768482	7.259E-09	3.72E-10	0.00E+00	7.63E-09	7.26E-09	3.72E-10	0.00E+00	7.63E-09	2.17E-09	6.69E-11	0.00E+00	2.24E-09	8.24E-10	2.16E-11	0.00E+00	8.45E-10
5299	457131.5	3768478	7.202E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.64E-11	0.00E+00	2.22E-09	8.17E-10	2.14E-11	0.00E+00	8.38E-10
5300	457122.3	3768474	7.143E-09	3.66E-10	0.00E+00	7.51E-09	7.14E-09	3.66E-10	0.00E+00	7.51E-09	2.14E-09	6.58E-11	0.00E+00	2.21E-09	8.10E-10	2.13E-11	0.00E+00	8.32E-10
5301	457113.1	3768470	7.084E-09	3.63E-10	0.00E+00	7.45E-09	7.08E-09	3.63E-10	0.00E+00	7.45E-09	2.12E-09	6.53E-11	0.00E+00	2.19E-09	8.04E-10	2.11E-11	0.00E+00	8.25E-10
5302	457104	3768467	7.023E-09	3.60E-10	0.00E+00	7.38E-09	7.02E-09	3.60E-10	0.00E+00	7.38E-09	2.10E-09	6.47E-11	0.00E+00	2.17E-09	7.97E-10	2.09E-11	0.00E+00	8.18E-10
5303	457091	3768454	7.087E-09	3.63E-10	0.00E+00	7.45E-09	7.09E-09	3.63E-10	0.00E+00	7.45E-09	2.12E-09	6.53E-11	0.00E+00	2.19E-09	8.04E-10	2.11E-11	0.00E+00	8.25E-10
5304	457071.7	3768408	7.762E-09	3.98E-10	0.00E+00	8.16E-09	7.76E-09	3.98E-10	0.00E+00	8.16E-09	2.32E-09	7.15E-11	0.00E+00	2.40E-09	8.81E-10	2.31E-11	0.00E+00	9.04E-10
5305	457067.9	3768399	7.903E-09	4.05E-10	0.00E+00	8.31E-09	7.90E-09	4.05E-10	0.00E+00	8.31E-09	2.37E-09	7.29E-11	0.00E+00	2.44E-09	8.97E-10	2.35E-11	0.00E+00	9.20E-10
5306	457064.1	3768390	8.047E-09	4.13E-10	0.00E+00	8.46E-09	8.05E-09	4.13E-10	0.00E+00	8.46E-09	2.41E-09	7.42E-11	0.00E+00	2.48E-09	9.13E-10	2.39E-11	0.00E+00	9.37E-10
5307	457060.2	3768381	8.194E-09	4.20E-10	0.00E+00	8.61E-09	8.19E-09	4.20E-10	0.00E+00	8.61E-09	2.45E-09	7.55E-11	0.00E+00	2.53E-09	9.30E-10	2.44E-11	0.00E+00	9.54E-10
5308	457056.4	3768372	8.345E-09	4.28E-10	0.00E+00	8.77E-09	8.35E-09	4.28E-10	0.00E+00	8.77E-09	2.50E-09	7.69E-11	0.00E+00	2.58E-09	9.47E-10	2.48E-11	0.00E+00	9.72E-10
5309	457052.5	3768362	8.5E-09	4.36E-10	0.00E+00	8.94E-09	8.50E-09	4.36E-10	0.00E+00	8.94E-09	2.55E-09	7.83E-11	0.00E+00	2.62E-09	9.64E-10	2.53E-11	0.00E+00	9.90E-10
5310	457048.7	3768353	8.654E-09	4.44E-10	0.00E+00	9.10E-09	8.65E-09	4.44E-10	0.00E+00	9.10E-09	2.59E-09	7.98E-11	0.00E+00	2.67E-09	9.82E-10	2.58E-11	0.00E+00	1.01E-09
5311	457044.8	3768344	8.811E-09	4.52E-10	0.00E+00	9.26E-09	8.81E-09	4.52E-10	0.00E+00	9.26E-09	2.64E-09	8.12E-11	0.00E+00	2.72E-09	1.00E-09	2.62E-11	0.00E+00	1.03E-09
5312	457041	3768335	8.97E-09	4.60E-10	0.00E+00	9.43E-09	8.97E-09	4.60E-10	0.00E+00	9.43E-09	2.69E-09	8.27E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
5313	457037.1	3768326	9.133E-09	4.68E-10	0.00E+00	9.60E-09	9.13E-09	4.68E-10	0.00E+00	9.60E-09	2.74E-09	8.42E-11	0.00E+00	2.82E-09	1.04E-09	2.72E-11	0.00E+00	1.06E-09
5314	457033.3	3768317	9.299E-09	4.77E-10	0.00E+00	9.78E-09	9.30E-09	4.77E-10	0.00E+00	9.78E-09	2.79E-09	8.57E-11	0.00E+00	2.87E-09	1.05E-09	2.77E-11	0.00E+00	1.08E-09
5315	457029.5	3768308	9.468E-09	4.85E-10	0.00E+00	9.95E-09	9.47E-09	4.85E-10	0.00E+00	9.95E-09	2.84E-09	8.73E-11	0.00E+00	2.92E-09	1.07E-09	2.82E-11	0.00E+00	1.10E-09
5316	457025.6	3768299	9.638E-09	4.94E-10	0.00E+00	1.01E-08	9.64E-09	4.94E-10	0.00E+00	1.01E-08	2.89E-09	8.88E-11	0.00E+00	2.98E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
5317	457021.8	3768289	9.81E-09	5.03E-10	0.00E+00	1.03E-08	9.81E-09	5.03E-10	0.00E+00	1.03E-08	2.94E-09	9.04E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
5318	457017.9	3768280	9.983E-09	5.12E-10	0.00E+00	1.05E-08	9.98E-09	5.12E-10	0.00E+00	1.05E-08	2.99E-09	9.20E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
5319	457014.1	3768271	1.016E-08	5.21E-10	0.00E+00	1.07E-08	1.02E-08	5.21E-10	0.00E+00	1.07E-08	3.04E-09	9.36E-11	0.00E+00	3.14E-09	1.15E-09	3.02E-11	0.00E+00	1.18E-09
5320	457010.2	3768262	1.033E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.10E-09	9.53E-11	0.00E+00	3.19E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
5321	457006.4	3768253	1.051E-08	5.39E-10	0.00E+00	1.11E-08	1.05E-08	5.39E-10	0.00E+00	1.11E-08	3.15E-09	9.69E-11	0.00E+00	3.25E-09	1.19E-09	3.13E-11	0.00E+00	1.22E-09
5322	457002.5	3768244	1.069E-08	5.48E-10	0.00E+00	1.12E-08	1.07E-08	5.48E-10	0.00E+00	1.12E-08	3.20E-09	9.86E-11	0.00E+00	3.30E-09	1.21E-09	3.18E-11	0.00E+00	1.24E-09
5323	457333.8	3768557	8.153E-09	4.18E-10	0.00E+00	8.57E-09	8.15E-09	4.18E-10	0.00E+00	8.57E-09	2.44E-09	7.52E-11	0.00E+00	2.52E-09	9.25E-10	2.43E-11	0.00E+00	9.49E-10
5324	457343.8	3768557	8.312E-09	4.26E-10	0.00E+00	8.74E-09	8.31E-09	4.26E-10	0.00E+00	8.74E-09	2.49E-09	7.66E-11	0.00E+00	2.57E-09	9.43E-10	2.47E-11	0.00E+00	9.68E-10
5325	457353.7	3768557	8.479E-09	4.35E-10	0.00E+00	8.91E-09	8.48E-09	4.35E-10	0.00E+00	8.91E-09	2.54E-09	7.82E-11	0.00E+00	2.62E-09	9.62E-10	2.52E-11	0.00E+00	9.87E-10
5326	457363.7	3768557	8.654E-09	4.44E-10	0.00E+00	9.10E-09	8.65E-09	4.44E-10	0.00E+00	9.10E-09	2.59E-09	7.98E-11	0.00E+00	2.67E-09	9.82E-10	2.58E-11	0.00E+00	1.01E-09
5327	457373.7	3768557	8.838E-09	4.53E-10	0.00E+00	9.29E-09	8.84E-09	4.53E-10	0.00E+00	9.29E-09	2.65E-09	8.15E-11	0.00E+00	2.73E-09	1.00E-09	2.63E-11	0.00E+00	1.03E-09
5328	457383.7	3768557	9.033E-09	4.63E-10	0.00E+00	9.50E-09	9.03E-09	4.63E-10	0.00E+00	9.50E-09	2.71E-09	8.33E-11	0.00E+00	2.79E-09	1.02E-09	2.69E-11	0.00E+00	1.05E-09
5329	457393.6	3768557	9.237E-09	4.74E-10	0.00E+00	9.71E-09	9.24E-09	4.74E-10	0.00E+00	9.71E-09	2.77E-09	8.52E-11	0.00E+00	2.85E-09	1.05E-09	2.75E-11	0.00E+00	1.08E-09
5330	457403.6	3768557	9.454E-09	4.85E-10	0.00E+00	9.94E-09	9.45E-09	4.85E-10	0.00E+00	9.94E-09	2.83E-09	8.71E-11	0.00E+00	2.92E-09	1.07E-09	2.81E-11	0.00E+00	1.10E-09
5331	457413.6	3768557	9.683E-09	4.96E-10	0.00E+00	1.02E-08	9.68E-09	4.96E-10	0.00E+00	1.02E-08	2.90E-09	8.93E-11	0.00E+00	2.99E-09	1.10E-09	2.88E-11	0.00E+00	1.13E-09
5332	457423.5	3768557	9.923E-09	5.09E-10	0.00E+00	1.04E-08	9.92E-09	5.09E-10	0.00E+00	1.04E-08	2.97E-09	9.15E-11	0.00E+00	3.06E-09	1.13E-09	2.95E-11	0.00E+00	1.16E-09
5333	457433.5	3768557	1.017E-08	5.22E-10	0.00E+00	1.07E-08	1.02E-08	5.22E-10	0.00E+00	1.07E-08	3.05E-09	9.38E-11	0.00E+00	3.14E-09	1.15E-09	3.03E-11	0.00E+00	1.18E-09
5334	457443.5	3768557	1.044E-08	5.35E-10	0.00E+00	1.10E-08	1.04E-08	5.35E-10	0.00E+00	1.10E-08	3.13E-09	9.62E-11	0.00E+00	3.22E-09	1.18E-09	3.11E-11	0.00E+00	1.22E-09
5335	457453.4	3768557	1.072E-08	5.50E-10	0.00E+00	1.13E-08	1.07E-08	5.50E-10	0.00E+00	1.13E-08	3.21E-09	9.88E-11	0.00E+00	3.31E-09	1.22E-09	3.19E-11	0.00E+00	1.25E-09
5336	457463.4	3768557	1.103E-08	5.65E-10	0.00E+00	1.16E-08	1.10E-08	5.65E-10	0.00E+00	1.16E-08	3.30E-09	1.02E-10	0.00E+00	3.40E-09	1.25E-09	3.28E-11	0.00E+00	1.28E-09
5337	457473.4	3768557	1.135E-08	5.82E-10	0.00E+00	1.19E-08	1.14E-08	5.82E-10	0.00E+00	1.19E-08	3.40E-09	1.05E-10	0.00E+00	3.50E-09	1.29E-09	3.38E-11	0.00E+00	1.32E-09
5338	457483.4	3768557	1.169E-08	5.99E-10	0.00E+00	1.23E-08	1.17E-08	5.99E-10	0.00E+00	1.23E-08	3.50E-09	1.08E-10	0.00E+00	3.61E-09	1.33E-09	3.48E-11	0.00E+00	1.36E-09
5339	457493.3	3768557	1.205E-08	6.18E-10	0.00E+00	1.27E-08	1.20E-08	6.18E-10	0.00E+00	1.27E-08	3.61E-09	1.11E-10	0.00E+00	3.72E-09	1.37E-09	3.59E-11	0.00E+00	1.40E-09
5340	457503.3	3768557	1.242E-08	6.37E-10	0.00E+00	1.31E-08	1.24E-08	6.37E-10	0.00E+00	1.31E-08	3.72E-09	1.15E-10	0.00E+00	3.84E-09	1.41E-09	3.70E-11	0.00E+00	1.45E-09
5341	457513.3	3768557	1.282E-08	6.57E-10	0.00E+00	1.35E-08	1.28E-08	6.57E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.45E-09	3.81E-11	0.00E+00	1.49E-09
5342	457523.2	3768557	1.235E-08	6.33E-10	0.00E+00	1.30E-08	1.23E-08	6.33E-10	0.00E+00	1.30E-08	3.70E-09	1.14E-10	0.00E+00	3.81E-09	1.40E-09	3.67E-11	0.00E+00	1.44E-09
5343	457533.2	3768557	1.272E-08	6.52E-10	0.00E+00	1.34E-08	1.27E-08	6.52E-10	0.00E+00	1.34E-08	3.81E-09	1.17E-10	0.00E+00	3.93E-09	1.44E-09	3.78E-11	0.00E+00	1.48E-09
5344	457543.2	3768557	1.309E-08	6.71E-10	0.00E+00	1.38E-08	1.31E-08	6.71E-10	0.00E+00	1.38E-08	3.92E-09	1.21E-10	0.00E+00	4.04E-09	1.48E-09	3.89E-11	0.00E+00	1.52E-09
5345	457553.1	3768557	1.342E-08	6.88E-10	0.00E+00	1.41E-08	1.34E-08	6.88E-10	0.00E+00	1.41E-08	4.02E-09	1.24E-10	0.00E+00	4.14E-09	1.52E-09	3.99E-11	0.00E+00	1.56E-09
5346	457563.1	3768557	1.378E-08	7.06E-10	0.00E+00	1.45E-08	1.38E-08	7.06E-10	0.00E+00	1.45E-08	4.13E-09	1.27E-10	0.00E+00	4.25E-09	1.56E-09	4.10E-11	0.00E+00	1.60E-09
5347	457573.1	3768557	1.417E-08	7.26E-10	0.00E+00	1.49E-08	1.42E-08	7.26E-10	0.00E+00	1.49E-08	4.24E-09	1.31E-10	0.00E+00	4.37E-09	1.61E-09	4.22E-11	0.00E+00	1.65E-09
5348	457583.1	3768557	1.462E-08	7.50E-10	0.00E+00	1.54E-08	1.46E-08	7.50E-10	0.00E+00	1.54E-08	4.38E-09	1.35E-10	0.00E+00	4.51E-09	1.66E-09	4.35E-11	0.00E+00	1.70E-09
5349	457593	3768557	1.509E-08	7.74E-10	0.00E+00	1.59E-08	1.51E-08	7.74E-10	0.00E+00	1.59E-08	4.52E-09	1.39E-10	0.00E+00	4.66E-09	1.71E-09	4.49E-11	0.00E+00	1.76E-09
5350	457603	3768557	1.557E-08	7.98E-10	0.00E+00	1.64E-08	1.56E-08	7.98E-10	0.00E+00	1.64E-08	4.66E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.63E-11	0.00E+00	1.81E-09
5351	457613	3768557	1.607E-08	8.24E-10	0.00E+00	1.69E-08	1.61E-08	8.24E-10	0.00E+00	1.69E-08	4.81E-09	1.48E-10	0.00E+00	4.96E-09	1.82E-09	4.78E-11	0.00E+00	1.87E-09
5352	457622.9	3768557	1.659E-08	8.50E-10	0.00E+00	1.74E-08	1.66E-08	8.50E-10	0.00E+00	1.74E-08	4.97E-09	1.53E-10	0.00E+00	5.12E-09	1.88E-09	4.94E-11	0.00E+00	1.93E-09
5353	457632.9	3768557	1.711E-08	8.77E-10	0.00E+00	1.80E-08	1.71E-08	8.77E-10	0.00E+00	1.80E-08	5.13E-09	1.58E-10	0.00E+00	5.28E-09	1.94E-09	5.09E-11	0.00E+00	1.99E-09
5354	457642.9	3768557	1.765E-08	9.05E-10	0.00E+00	1.86E-08	1.76E-08	9.05E-10	0.00E+00	1.86E-08	5.29E-09	1.63E-10	0.00E+00	5.45E-09	2.00E-09	5.25E-11	0.00E+00	2.05E-09
5355	457652.8	3768557	1.819E-08	9.33E-10	0.00E+00	1.91E-08	1.82E-08	9.33E-10	0.00E+00	1.91E-08	5.45E-09	1.68E-10	0.00E+00	5.62E-09	2.06E-09	5.41E-11	0.00E+00	2.12E-09
5356	457662.8	3768557	1.872E-08	9.60E-10	0.00E+00	1.97E-08	1.87E-08	9.60E-10	0.00E+00	1.97E-08	5.61E-09	1.73E-10	0.00E+00	5.78E-09	2.12E-09	5.57E-11	0.00E+00	2.18E-09
5357	457672.8	3768557	1.919E-08	9.84E-10	0.00E+00	2.02E-08	1.92E-08	9.84E-10	0.00E+00	2.02E-08	5.75E-09	1.77E-10	0.00E+00	5.92E-09	2.18E-09	5.71E-11	0.00E+00	2.23E-09
5358	457682.8	3768557	1.966E-08	1.01E-09	0.00E+00	2.07E-08	1.97E-08	1.01E-09	0.00E+00	2.07E-08	5.89E-09	1.81E-10	0.00E+00	6.07E-09	2.23E-09	5.85E-11	0.00E+00	2.29E-09
5359	457692.7	3768557	2.017E-08	1.03E-09	0.00E+00	2.12E-08	2.02E-08	1.03E-09	0.00E+00	2.12E-08	6.04E-09	1.86E-10	0.00E+00	6.23E-09	2.29E-09	6.00E-11	0.00E+00	2.35E-09
5360	457702.7	3768557	2.074E-08	1.06E-09	0.00E+00	2.18E-08	2.07E-08	1.06E-09	0.00E+00	2.18E-08	6.21E-09	1.91E-10	0.00E+00	6.40E-09	2.35E-09	6.17E-11	0.00E+00	2.42E-09
5361	457296.4	3768571	7.254E-09	3.72E-10	0.00E+00	7.63E-09	7.25E-09	3.72E-10	0.00E+00	7.63E-09	2.17E-09	6.69E-11	0.00E+00	2.24E-09	8.23E-10	2.16E-11	0.00E+00	8.45E-10
5362	457287.3	3768567	7.236E-09	3.71E-10	0.00E+00	7.61E-09	7.24E-09	3.71E-10	0.00E+00	7.61E-09	2.17E-09	6.67E-11	0.00E+00	2.23E-09	8.21E-10	2.15E-11	0.00E+00	8.42E-10
5363	457278.2	3768563	7.218E-09	3.70E-10	0.00E+00	7.59E-09	7.22E-09	3.70E-10	0.00E+00	7.59E-09	2.16E-09	6.65E-11	0.00E+00	2.23E-09	8.19E-10	2.15E-11	0.00E+00	8.40E-10
5364	457269	3768560	7.199E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.64E-11	0.00E+00	2.22E-09	8.17E-10	2.14E-11	0.00E+00	8.38E-10
5365	457259.9	3768556	7.177E-09	3.68E-10	0.00E+00	7.54E-09	7.18E-09	3.68E-10	0.00E+00	7.54E-09	2.15E-09	6.62E-11	0.00E+00	2.22E-09	8.14E-10	2.14E-11	0.00E+00	8.36E-10
5366	457250.8	3768552	7.152E-09	3.67E-10	0.00E+00	7.52E-09	7.15E-09	3.67E-10	0.00E+00	7.52E-09	2.14E-09	6.59E-11	0.00E+00	2.21E-09	8.11E-10	2.13E-11	0.00E+00	8.33E-10
5367	457241.6	3768548	7.127E-09	3.65E-10	0.00E+00	7.49E-09	7.13E-09	3.65E-10	0.00E+00	7.49E-09	2.13E-09	6.57E-11	0.00E+00	2.20E-09	8.09E-10	2.12E-11	0.00E+00	8.30E-10
5368	457232.5	3768545	7.099E-09	3.64E-10	0.00E+00	7.46E-09	7.10E-09	3.64E-10	0.00E+00	7.46E-09	2.13E-09	6.54E-11	0.00E+00	2.19E-09	8.05E-10	2.11E-11	0.00E+00	8.27E-10
5369	457223.4	3768541	7.071E-09	3.62E-10	0.00E+00	7.43E-09	7.07E-09	3.62E-10	0.00E+00	7.43E-09	2.12E-09	6.52E-11	0.00E+00	2.18E-09	8.02E-10	2.10E-11	0.00E+00	8.23E-10
5370	457214.2	3768537	7.04E-09	3.61E-10	0.00E+00	7.40E-09	7.04E-09	3.61E-10	0.00E+00	7.40E-09	2.11E-09	6.49E-11	0.00E+00	2.17E-09	7.99E-10	2.09E-11	0.00E+00	8.20E-10
5371	457205.1	3768533	7.008E-09	3.59E-10	0.00E+00	7.37E-09	7.01E-09	3.59E-10	0.00E+00	7.37E-09	2.10E-09	6.46E-11	0.00E+00	2.16E-09	7.95E-10	2.09E-11	0.00E+00	8.16E-10
5372	457196	3768530	6.973E-09	3.58E-10	0.00E+00	7.33E-09	6.97E-09	3.58E-10	0.00E+00	7.33E-09	2.09E-09	6.43E-11	0.00E+00	2.15E-09	7.91E-10	2.08E-11	0.00E+00	8.12E-10
5373	457186.8	3768526	6.938E-09	3.56E-10	0.00E+00	7.29E-09	6.94E-09	3.56E-10	0.00E+00	7.29E-09	2.08E-09	6.40E-11	0.00E+00	2.14E-09	7.87E-10	2.06E-11	0.00E+00	8.08E-10

5374	457177.7	3768522	6.901E-09	3.54E-10	0.00E+00	7.25E-09	6.90E-09	3.54E-10	0.00E+00	7.25E-09	2.07E-09	6.36E-11	0.00E+00	2.13E-09	7.83E-10	2.05E-11	0.00E+00	8.03E-10
5375	457168.6	3768518	6.862E-09	3.52E-10	0.00E+00	7.21E-09	6.86E-09	3.52E-10	0.00E+00	7.21E-09	2.06E-09	6.33E-11	0.00E+00	2.12E-09	7.79E-10	2.04E-11	0.00E+00	7.99E-10
5376	457159.4	3768515	6.821E-09	3.50E-10	0.00E+00	7.17E-09	6.82E-09	3.50E-10	0.00E+00	7.17E-09	2.04E-09	6.29E-11	0.00E+00	2.11E-09	7.74E-10	2.03E-11	0.00E+00	7.94E-10
5377	457150.3	3768511	6.779E-09	3.48E-10	0.00E+00	7.13E-09	6.78E-09	3.48E-10	0.00E+00	7.13E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.69E-10	2.02E-11	0.00E+00	7.89E-10
5378	457141.1	3768507	6.733E-09	3.45E-10	0.00E+00	7.08E-09	6.73E-09	3.45E-10	0.00E+00	7.08E-09	2.02E-09	6.21E-11	0.00E+00	2.08E-09	7.64E-10	2.00E-11	0.00E+00	7.84E-10
5379	457132	3768503	6.686E-09	3.43E-10	0.00E+00	7.03E-09	6.69E-09	3.43E-10	0.00E+00	7.03E-09	2.00E-09	6.16E-11	0.00E+00	2.06E-09	7.59E-10	1.99E-11	0.00E+00	7.78E-10
5380	457122.9	3768499	6.636E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.97E-11	0.00E+00	7.73E-10
5381	457113.7	3768496	6.586E-09	3.38E-10	0.00E+00	6.92E-09	6.59E-09	3.38E-10	0.00E+00	6.92E-09	1.97E-09	6.07E-11	0.00E+00	2.03E-09	7.47E-10	1.96E-11	0.00E+00	7.67E-10
5382	457104.6	3768492	6.535E-09	3.35E-10	0.00E+00	6.87E-09	6.54E-09	3.35E-10	0.00E+00	6.87E-09	1.96E-09	6.02E-11	0.00E+00	2.02E-09	7.41E-10	1.94E-11	0.00E+00	7.61E-10
5383	457095.5	3768488	6.484E-09	3.32E-10	0.00E+00	6.82E-09	6.48E-09	3.32E-10	0.00E+00	6.82E-09	1.94E-09	5.98E-11	0.00E+00	2.00E-09	7.36E-10	1.93E-11	0.00E+00	7.55E-10
5384	457086.3	3768484	6.432E-09	3.30E-10	0.00E+00	6.76E-09	6.43E-09	3.30E-10	0.00E+00	6.76E-09	1.93E-09	5.93E-11	0.00E+00	1.99E-09	7.30E-10	1.91E-11	0.00E+00	7.49E-10
5385	457073.4	3768472	6.489E-09	3.33E-10	0.00E+00	6.82E-09	6.49E-09	3.33E-10	0.00E+00	6.82E-09	1.94E-09	5.98E-11	0.00E+00	2.00E-09	7.36E-10	1.93E-11	0.00E+00	7.56E-10
5386	457069.5	3768462	6.601E-09	3.38E-10	0.00E+00	6.94E-09	6.60E-09	3.38E-10	0.00E+00	6.94E-09	1.98E-09	6.08E-11	0.00E+00	2.04E-09	7.49E-10	1.96E-11	0.00E+00	7.69E-10
5387	457065.7	3768453	6.713E-09	3.44E-10	0.00E+00	7.06E-09	6.71E-09	3.44E-10	0.00E+00	7.06E-09	2.01E-09	6.19E-11	0.00E+00	2.07E-09	7.62E-10	2.00E-11	0.00E+00	7.82E-10
5388	457046.5	3768408	7.311E-09	3.75E-10	0.00E+00	7.69E-09	7.31E-09	3.75E-10	0.00E+00	7.69E-09	2.19E-09	6.74E-11	0.00E+00	2.26E-09	8.30E-10	2.18E-11	0.00E+00	8.51E-10
5389	457042.7	3768399	7.438E-09	3.81E-10	0.00E+00	7.82E-09	7.44E-09	3.81E-10	0.00E+00	7.82E-09	2.23E-09	6.86E-11	0.00E+00	2.30E-09	8.44E-10	2.21E-11	0.00E+00	8.66E-10
5390	457038.9	3768390	7.567E-09	3.88E-10	0.00E+00	7.95E-09	7.57E-09	3.88E-10	0.00E+00	7.95E-09	2.27E-09	6.98E-11	0.00E+00	2.34E-09	8.58E-10	2.25E-11	0.00E+00	8.81E-10
5391	457035	3768381	7.697E-09	3.95E-10	0.00E+00	8.09E-09	7.70E-09	3.95E-10	0.00E+00	8.09E-09	2.31E-09	7.10E-11	0.00E+00	2.38E-09	8.73E-10	2.29E-11	0.00E+00	8.96E-10
5392	457031.2	3768371	7.829E-09	4.01E-10	0.00E+00	8.23E-09	7.83E-09	4.01E-10	0.00E+00	8.23E-09	2.35E-09	7.22E-11	0.00E+00	2.42E-09	8.88E-10	2.33E-11	0.00E+00	9.12E-10
5393	457027.4	3768362	7.963E-09	4.08E-10	0.00E+00	8.37E-09	7.96E-09	4.08E-10	0.00E+00	8.37E-09	2.38E-09	7.34E-11	0.00E+00	2.46E-09	9.03E-10	2.37E-11	0.00E+00	9.27E-10
5394	457023.5	3768353	8.098E-09	4.15E-10	0.00E+00	8.51E-09	8.10E-09	4.15E-10	0.00E+00	8.51E-09	2.43E-09	7.47E-11	0.00E+00	2.50E-09	9.19E-10	2.41E-11	0.00E+00	9.43E-10
5395	457019.7	3768344	8.236E-09	4.22E-10	0.00E+00	8.66E-09	8.24E-09	4.22E-10	0.00E+00	8.66E-09	2.47E-09	7.59E-11	0.00E+00	2.54E-09	9.34E-10	2.45E-11	0.00E+00	9.59E-10
5396	457015.9	3768335	8.378E-09	4.30E-10	0.00E+00	8.81E-09	8.38E-09	4.30E-10	0.00E+00	8.81E-09	2.51E-09	7.72E-11	0.00E+00	2.59E-09	9.51E-10	2.49E-11	0.00E+00	9.75E-10
5397	457012	3768326	8.522E-09	4.37E-10	0.00E+00	8.96E-09	8.52E-09	4.37E-10	0.00E+00	8.96E-09	2.55E-09	7.86E-11	0.00E+00	2.63E-09	9.67E-10	2.54E-11	0.00E+00	9.92E-10
5398	457008.2	3768317	8.668E-09	4.44E-10	0.00E+00	9.11E-09	8.67E-09	4.44E-10	0.00E+00	9.11E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.83E-10	2.58E-11	0.00E+00	1.01E-09
5399	457004.4	3768308	8.815E-09	4.52E-10	0.00E+00	9.27E-09	8.81E-09	4.52E-10	0.00E+00	9.27E-09	2.64E-09	8.13E-11	0.00E+00	2.72E-09	1.00E-09	2.62E-11	0.00E+00	1.03E-09
5400	457000.5	3768299	8.962E-09	4.59E-10	0.00E+00	9.42E-09	8.96E-09	4.59E-10	0.00E+00	9.42E-09	2.68E-09	8.26E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
5401	456996.7	3768289	9.111E-09	4.67E-10	0.00E+00	9.58E-09	9.11E-09	4.67E-10	0.00E+00	9.58E-09	2.73E-09	8.40E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
5402	456992.9	3768280	9.263E-09	4.75E-10	0.00E+00	9.74E-09	9.26E-09	4.75E-10	0.00E+00	9.74E-09	2.77E-09	8.54E-11	0.00E+00	2.86E-09	1.05E-09	2.76E-11	0.00E+00	1.08E-09
5403	456989	3768271	9.418E-09	4.83E-10	0.00E+00	9.90E-09	9.42E-09	4.83E-10	0.00E+00	9.90E-09	2.82E-09	8.68E-11	0.00E+00	2.91E-09	1.07E-09	2.80E-11	0.00E+00	1.10E-09
5404	456985.2	3768262	9.572E-09	4.91E-10	0.00E+00	1.01E-08	9.57E-09	4.91E-10	0.00E+00	1.01E-08	2.87E-09	8.82E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.11E-09
5405	456981.4	3768253	9.728E-09	4.99E-10	0.00E+00	1.02E-08	9.73E-09	4.99E-10	0.00E+00	1.02E-08	2.91E-09	8.97E-11	0.00E+00	3.00E-09	1.10E-09	2.89E-11	0.00E+00	1.13E-09
5406	456977.5	3768244	9.884E-09	5.07E-10	0.00E+00	1.04E-08	9.88E-09	5.07E-10	0.00E+00	1.04E-08	2.96E-09	9.11E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
5407	457333.8	3768582	7.444E-09	3.82E-10	0.00E+00	7.83E-09	7.44E-09	3.82E-10	0.00E+00	7.83E-09	2.23E-09	6.86E-11	0.00E+00	2.30E-09	8.44E-10	2.21E-11	0.00E+00	8.67E-10
5408	457343.8	3768582	7.579E-09	3.89E-10	0.00E+00	7.97E-09	7.58E-09	3.89E-10	0.00E+00	7.97E-09	2.27E-09	6.99E-11	0.00E+00	2.34E-09	8.60E-10	2.26E-11	0.00E+00	8.82E-10
5409	457353.8	3768582	7.719E-09	3.96E-10	0.00E+00	8.11E-09	7.72E-09	3.96E-10	0.00E+00	8.11E-09	2.31E-09	7.12E-11	0.00E+00	2.38E-09	8.76E-10	2.30E-11	0.00E+00	8.99E-10
5410	457363.7	3768582	7.866E-09	4.03E-10	0.00E+00	8.27E-09	7.87E-09	4.03E-10	0.00E+00	8.27E-09	2.36E-09	7.25E-11	0.00E+00	2.43E-09	8.92E-10	2.34E-11	0.00E+00	9.16E-10
5411	457373.7	3768582	8.02E-09	4.11E-10	0.00E+00	8.43E-09	8.02E-09	4.11E-10	0.00E+00	8.43E-09	2.40E-09	7.39E-11	0.00E+00	2.48E-09	9.10E-10	2.39E-11	0.00E+00	9.34E-10
5412	457383.7	3768582	8.183E-09	4.20E-10	0.00E+00	8.60E-09	8.18E-09	4.20E-10	0.00E+00	8.60E-09	2.45E-09	7.54E-11	0.00E+00	2.53E-09	9.28E-10	2.43E-11	0.00E+00	9.53E-10
5413	457393.6	3768582	8.351E-09	4.28E-10	0.00E+00	8.78E-09	8.35E-09	4.28E-10	0.00E+00	8.78E-09	2.50E-09	7.70E-11	0.00E+00	2.58E-09	9.47E-10	2.49E-11	0.00E+00	9.72E-10
5414	457403.6	3768582	8.527E-09	4.37E-10	0.00E+00	8.96E-09	8.53E-09	4.37E-10	0.00E+00	8.96E-09	2.55E-09	7.86E-11	0.00E+00	2.63E-09	9.67E-10	2.54E-11	0.00E+00	9.93E-10
5415	457413.6	3768582	8.712E-09	4.47E-10	0.00E+00	9.16E-09	8.71E-09	4.47E-10	0.00E+00	9.16E-09	2.61E-09	8.03E-11	0.00E+00	2.69E-09	9.88E-10	2.59E-11	0.00E+00	1.01E-09
5416	457423.5	3768582	8.908E-09	4.57E-10	0.00E+00	9.37E-09	8.91E-09	4.57E-10	0.00E+00	9.37E-09	2.67E-09	8.21E-11	0.00E+00	2.75E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
5417	457433.5	3768582	9.12E-09	4.68E-10	0.00E+00	9.59E-09	9.12E-09	4.68E-10	0.00E+00	9.59E-09	2.73E-09	8.41E-11	0.00E+00	2.82E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
5418	457443.5	3768582	9.343E-09	4.79E-10	0.00E+00	9.82E-09	9.34E-09	4.79E-10	0.00E+00	9.82E-09	2.80E-09	8.61E-11	0.00E+00	2.88E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09
5419	457453.5	3768582	9.579E-09	4.91E-10	0.00E+00	1.01E-08	9.58E-09	4.91E-10	0.00E+00	1.01E-08	2.87E-09	8.83E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
5420	457463.4	3768582	9.83E-09	5.04E-10	0.00E+00	1.03E-08	9.83E-09	5.04E-10	0.00E+00	1.03E-08	2.94E-09	9.06E-11	0.00E+00	3.03E-09	1.12E-09	2.93E-11	0.00E+00	1.14E-09
5421	457473.4	3768582	1.01E-08	5.18E-10	0.00E+00	1.06E-08	1.01E-08	5.18E-10	0.00E+00	1.06E-08	3.02E-09	9.31E-11	0.00E+00	3.12E-09	1.15E-09	3.00E-11	0.00E+00	1.18E-09
5422	457483.4	3768582	1.037E-08	5.32E-10	0.00E+00	1.09E-08	1.04E-08	5.32E-10	0.00E+00	1.09E-08	3.11E-09	9.56E-11	0.00E+00	3.20E-09	1.18E-09	3.09E-11	0.00E+00	1.21E-09
5423	457493.3	3768582	1.067E-08	5.47E-10	0.00E+00	1.12E-08	1.07E-08	5.47E-10	0.00E+00	1.12E-08	3.20E-09	9.83E-11	0.00E+00	3.29E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
5424	457503.3	3768582	1.098E-08	5.63E-10	0.00E+00	1.15E-08	1.10E-08	5.63E-10	0.00E+00	1.15E-08	3.29E-09	1.01E-10	0.00E+00	3.39E-09	1.25E-09	3.27E-11	0.00E+00	1.28E-09
5425	457513.3	3768582	1.058E-08	5.43E-10	0.00E+00	1.11E-08	1.06E-08	5.43E-10	0.00E+00	1.11E-08	3.17E-09	9.76E-11	0.00E+00	3.27E-09	1.20E-09	3.15E-11	0.00E+00	1.23E-09
5426	457523.2	3768582	1.083E-08	5.55E-10	0.00E+00	1.14E-08	1.08E-08	5.55E-10	0.00E+00	1.14E-08	3.24E-09	9.98E-11	0.00E+00	3.34E-09	1.23E-09	3.22E-11	0.00E+00	1.26E-09
5427	457533.2	3768582	1.109E-08	5.68E-10	0.00E+00	1.17E-08	1.11E-08	5.68E-10	0.00E+00	1.17E-08	3.32E-09	1.02E-10	0.00E+00	3.42E-09	1.26E-09	3.30E-11	0.00E+00	1.29E-09
5428	457543.2	3768582	1.137E-08	5.83E-10	0.00E+00	1.20E-08	1.14E-08	5.83E-10	0.00E+00	1.20E-08	3.41E-09	1.05E-10	0.00E+00	3.51E-09	1.29E-09	3.38E-11	0.00E+00	1.32E-09
5429	457553.2	3768582	1.169E-08	5.99E-10	0.00E+00	1.23E-08	1.17E-08	5.99E-10	0.00E+00	1.23E-08	3.50E-09	1.08E-10	0.00E+00	3.61E-09	1.33E-09	3.48E-11	0.00E+00	1.36E-09
5430	457563.1	3768582	1.202E-08	6.16E-10	0.00E+00	1.26E-08	1.20E-08	6.16E-10	0.00E+00	1.26E-08	3.60E-09	1.11E-10	0.00E+00	3.71E-09	1.36E-09	3.58E-11	0.00E+00	1.40E-09
5431	457573.1	3768582	1.238E-08	6.35E-10	0.00E+00	1.30E-08	1.24E-08	6.35E-10	0.00E+00	1.30E-08	3.71E-09	1.14E-10	0.00E+00	3.82E-09	1.40E-09	3.68E-11	0.00E+00	1.44E-09
5432	457583.1	3768582	1.275E-08	6.54E-10	0.00E+00	1.34E-08	1.28E-08	6.54E-10	0.00E+00	1.34E-08	3.82E-09	1.18E-10	0.00E+00	3.94E-09	1.45E-09	3.79E-11	0.00E+00	1.48E-09
5433	457593	3768582	1.314E-08	6.74E-10	0.00E+00	1.38E-08	1.31E-08	6.74E-10	0.00E+00	1.38E-08	3.93E-09	1.21E-10	0.00E+00	4.06E-09	1.49E-09	3.91E-11	0.00E+00	1.53E-09
5434	457603	3768582	1.354E-08	6.94E-10	0.00E+00	1.42E-08	1.35E-08	6.94E-10	0.00E+00	1.42E-08	4.06E-09	1.25E-10	0.00E+00	4.18E-09	1.54E-09	4.03E-11	0.00E+00	1.58E-09
5435	457613	3768582	1.396E-08	7.15E-10	0.00E+00	1.47E-08	1.40E-08	7.15E-10	0.00E+00	1.47E-08	4.18E-09	1.29E-10	0.00E+00	4.31E-09	1.58E-09	4.15E-11	0.00E+00	1.62E-09
5436	457622.9	3768582	1.438E-08	7.37E-10	0.00E+00	1.51E-08	1.44E-08	7.37E-10	0.00E+00	1.51E-08	4.31E-09	1.33E-10	0.00E+00	4.44E-09	1.63E-09	4.28E-11	0.00E+00	1.67E-09
5437	457632.9	3768582	1.48E-08	7.59E-10	0.00E+00	1.56E-08	1.48E-08	7.59E-10	0.00E+00	1.56E-08	4.43E-09	1.36E-10	0.00E+00	4.57E-09	1.68E-09	4.41E-11	0.00E+00	1.72E-09
5438	457642.9	3768582	1.519E-08	7.79E-10	0.00E+00	1.60E-08	1.52E-08	7.79E-10	0.00E+00	1.60E-08	4.55E-09	1.40E-10	0.00E+00	4.69E-09	1.72E-09	4.52E-11	0.00E+00	1.77E-09
5439	457652.9	3768582	1.558E-08	7.99E-10	0.00E+00	1.64E-08	1.56E-08	7.99E-10	0.00E+00	1.64E-08	4.67E-09	1.44E-10	0.00E+00	4.81E-09	1.77E-09	4.64E-11	0.00E+00	1.81E-09
5440	457662.8	3768582	1.6E-08	8.20E-10	0.00E+00	1.68E-08	1.60E-08	8.20E-10	0.00E+00	1.68E-08	4.79E-09	1.48E-10	0.00E+00	4.94E-09	1.82E-09	4.76E-11	0.00E+00	1.86E-09
5441	457672.8	3768582	1.647E-08	8.44E-10	0.00E+00	1.73E-08	1.65E-08	8.44E-10	0.00E+00	1.73E-08	4.93E-09	1.52E-10	0.00E+00	5.08E-09	1.87E-09	4.90E-11	0.00E+00	1.92E-09
5442	457682.8	3768582	1.694E-08	8.68E-10	0.00E+00	1.78E-08	1.69E-08	8.68E-10	0.00E+00	1.78E-08	5.07E-09	1.56E-10	0.00E+00	5.23E-09	1.92E-09	5.04E-11	0.00E+00	1.97E-09
5443	457692.7	3768582	1.742E-08	8.93E-10	0.00E+00	1.83E-08	1.74E-08	8.93E-10	0.00E+00	1.83E-08	5.22E-09	1.61E-10	0.00E+00	5.38E-09	1.98E-09	5.18E-11	0.00E+00	2.03E-09
5444	457702.7	3768582	1.792E-08	9.19E-10	0.00E+00	1.88E-08	1.79E-08	9.19E-10	0.00E+00	1.88E-08	5.37E-09	1.65E-10	0.00E+00	5.53E-09	2.03E-09	5.33E-11	0.00E+00	2.09E-09
5445	457296.5	3768596	6.671E-09	3.42E-10	0.00E+00	7.01E-09	6.67E-09	3.42E-10	0.00E+00	7.01E-09	2.00E-09	6.15E-11	0.00E+00	2.06E-09	7.57E-10	1.99E-11	0.00E+00	7.77E-10
5446	457287.4	3768592	6.655E-09	3.41E-10	0.00E+00	7.00E-09	6.66E-09	3.41E-10	0.00E+00	7.00E-09	1.99E-09	6.13E-11	0.00E+00	2.05E-09	7.55E-10	1.98E-11	0.00E+00	7.75E-10
5447	457278.3	3768588	6.639E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.98E-11	0.00E+00	7.73E-10
5448	457269.2	3768585	6.623E-09	3.40E-10	0.00E+00	6.96E-09	6.62E-09	3.40E-10	0.00E+00	6.96E-09	1.98E-09	6.11E-11	0.00E+00	2.04E-09	7.51E-10	1.97E-11	0.00E+00	7.71E-10
5449	457260.1	3768581	6.609E-09	3.39E-10	0.00E+00	6.95E-09	6.61E-09	3.39E-10	0.00E+00	6.95E-09	1.98E-09	6.09E-11	0.00E+00	2.04E-09	7.50E-10	1.97E-11	0.00E+00	7.69E-10
5450	457251	3768577	6.593E-09	3.38E-10	0.00E+00	6.93E-09	6.59E-09	3.38E-10	0.00E+00	6.93E-09	1.97E-09	6.08E-11	0.00E+00	2.04E-09	7.48E-10	1.96E-11	0.00E+00	7.68E-10
5451	457241.8	3768573	6.575E-09	3.37E-10	0.00E+00	6.91E-09	6.58E-09	3.37E-10	0.00E+00	6.91E-09	1.97E-09	6.06E-11	0.00E+00	2.03E-09	7.46E-10	1.96E-11	0.00E+00	7.66E-10
5452	457232.7	3768570	6.555E-09	3.36E-10	0.00E+00	6.89E-09	6.55E-09	3.36E-10	0.00E+00	6.89E-09	1.96E-09	6.04E-11	0.00E+00	2.02E-09	7.44E-10	1.95E-11	0.00E+00	7.63E-10
5453	457223.6	3768566	6.532E-09	3.35E-10	0.00E+00	6.87E-09	6.53E-09	3.35E-10	0.00E+00	6.87E-09	1.96E-09	6.02E-11	0.00E+00	2.02E-09	7.41E-10	1.94E-11	0.00E+00	7.61E-10
5454	457214.5	3768562	6.509E-09	3.34E-10	0.00E+00	6.84E-09	6.51E-09	3.34E-10	0.00E+00	6.84E-09	1.95E-09	6.00E-11	0.00E+00	2.01E-09	7.38E-10	1.94E-11	0.00E+00	7.58E-10
5455	457205.4	3768558	6.484E-09	3.32E-10	0.00E+00	6.82E-09	6.48E-09	3.32E-10	0.00E+00	6.82E-09	1.94E-09	5.98E-11	0.00E+00	2.00E-09	7.36E-10	1.93E-11	0.00E+00	7.55E-10
5456	457196.3	3768555	6.457E-09	3.31E-10	0.00E+00	6.79E-09	6.46E-09	3.31E-10	0.00E+00	6.79E-09	1.93E-09	5.95E-11	0.00E+00	1.99E-09	7.33E-10	1.92E-11	0.00E+00	7.52E-10
5457	457187.2	3768551	6.429E-09	3.30E-10	0.00E+00	6.76E-09	6.43E-09	3.30E-10	0.00E+00	6.76E-09	1.93E-09	5.93E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
5458	457178.1	3768547	6.398E-09	3.28E-10	0.00E+00	6.73E-09	6.40E-09	3.28E-10	0.00E+00	6.73E-09	1.92E-09	5.90E-11	0.00E+00	1.98E-09	7.26E-10	1.90E-11	0.00E+00	7.45E-10
5459	457168.9	3768543	6.367E-09	3.26E-10	0.00E+00	6.69E-09	6.37E-09	3.26E-10	0.00E+00	6.69E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.22E-10	1.89E-11	0.00E+00	7.41E-10
5460	457159.8	3768540	6.333E-09	3.25E-10	0.00E+00	6.66E-09	6.33E-09	3.25E-10	0.00E+00	6.66E-09	1.90E-09	5.84E-11	0.00E+00	1.96E-09	7.19E-10	1.88E-11	0.00E+00	7.37E-10
5461	457150.7	3768536	6.298E-09	3.23E-10	0.00E+00	6.62E-09	6.30E-09	3.23E-10	0.00E+00	6.62E-09	1.89E-09	5.81E-11	0.00E+00	1.94E-09	7.15E-10	1.87E-11	0.00E+00	7.33E-10
5462	457141.6	3768532	6.262E-09	3.21E-10	0.00E+00	6.58E-09	6.26E-09	3.21E-10	0.00E+00	6.58E-09	1.88E-09	5.77E-11	0.00E+00	1.93E-09	7.10E-10	1.86E-11	0.00E+00	7.29E-10
5463	457132.5	3768528	6.223E-09	3.19E-10	0.00E+00	6.54E-09	6.22E-09	3.19E-10	0.00E+00	6.54E-09	1.86E-09	5.74E-11	0.00E+00	1.92E-09	7.06E-10	1.85E-11	0.00E+00	7.25E-10
5464	457123.4	3768525	6.184E-09	3.17E-10	0.00E+00	6.50E-09	6.18E-09	3.17E-10	0.00E+00	6.50E-09	1.85E-09	5.70E-11	0.00E+00	1.91E-09	7.02E-10	1.84E-11	0.00E+00	7.20E-10
5465	457114.3	3768521	6.143E-09	3.15E-10	0.00E+00	6.46E-09	6.14E-09	3.15E-10	0.00E+00	6.46E-09	1.84E-09	5.66E-11	0.00E+00	1.90E-09	6.97E-10	1.83E-11	0.00E+00	7.15E-10
5466	457105.2	3768517	6.1E-09	3.13E-10	0.00E+00	6.41E-09	6.10E-09	3.13E-10	0.00E+00	6.41E-09	1.83E-09	5.62E-11	0.00E+00	1.88E-09	6.92E-10	1.82E-11	0.00E+00	7.10E-10
5467	457096	3768513	6.056E-09	3.10E-10	0.00E+00	6.37E-09	6.06E-09	3.10E-10	0.00E+00	6.37E-09	1.81E-09	5.58E-11	0.00E+00	1.87E-09	6.87E-10	1.80E-11	0.00E+00	7.05E-10
5468	457086.9	3768510	6.012E-09	3.08E-10	0.00E+00	6.32E-09	6.01E-09	3.08E-10	0.00E+00	6.32E-09	1.80E-09	5.54E-11	0.00E+00	1.86E-09	6.82E-10	1.79E-11	0.00E+00	7.00E-10
5469	457077.8	3768506	5.966E-09	3.06E-10	0.00E+00	6.27E-09	5.97E-09	3.06E-10	0.00E+00	6.27E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.78E-11	0.00E+00	6.95E-10
5470	457068.7	3768502	5.919E-09	3.03E-10	0.00E+00	6.22E-09	5.92E-09	3.03E-10	0.00E+00	6.22E-09	1.77E-09	5.46E-11	0.00E+00	1.83E-09	6.72E-10	1.76E-11	0.00E+00	6.89E-10
5471	457055.8	3768489	5.967E-09	3.06E-10	0.00E+00	6.27E-09	5.97E-09	3.06E-10	0.00E+00	6.27E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.78E-11	0.00E+00	6.95E-10
5472	457052	3768480	6.065E-09	3.11E-10	0.00E+00	6.38E-09	6.06E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.59E-11	0.00E+00	1.87E-09	6.88E-10	1.80E-11	0.00E+00	7.06E-10
5473	457048.1	3768471	6.163E-09	3.16E-10	0.00E+00	6.48E-09	6.16E-09	3.16E-10	0.00E+00	6.48E-09	1.85E-09	5.68E-11	0.00E+00	1.90E-09	6.99E-10	1.83E-11	0.00E+00	7.18E-10
5474	457044.3	3768462	6.264E-09	3.21E-10	0.00E+00	6.58E-09	6.26E-09	3.21E-10	0.00E+00	6.58E-09	1.88E-09	5.77E-11	0.00E+00	1.93E-09	7.11E-10	1.86E-11	0.00E+00	7.29E-10
5475	457040.5	3768453	6.365E-09	3.26E-10	0.00E+00	6.69E-09	6.36E-09	3.26E-10	0.00E+00	6.69E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.22E-10	1.89E-11	0.00E+00	7.41E-10
5476	457021.4	3768408	6.898E-09	3.54E-10	0.00E+00	7.25E-09	6.90E-09	3.54E-10	0.00E+00	7.25E-09	2.07E-09	6.36E-11	0.00E+00	2.13E-09	7.83E-10	2.05E-11	0.00E+00	8.03E-10
5477	457017.5	3768399	7.011E-09	3.59E-10	0.00E+00	7.37E-09	7.01E-09	3.59E-10	0.00E+00	7.37E-09	2.10E-09	6.46E-11	0.00E+00	2.16E-09	7.95E-10	2.09E-11	0.00E+00	8.16E-10
5478	457013.7	3768389	7.126E-09	3.65E-10	0.00E+00	7.49E-09	7.13E-09	3.65E-10	0.00E+00	7.49E-09	2.13E-09	6.57E-11	0.00E+00	2.20E-09	8.08E-10	2.12E-11	0.00E+00	8.30E-10
5479	457009.9	3768380	7.242E-09	3.71E-10	0.00E+00	7.61E-09	7.24E-09	3.71E-10	0.00E+00	7.61E-09	2.17E-09	6.68E-11	0.00E+00	2.24E-09	8.22E-10	2.15E-11	0.00E+00	8.43E-10
5480	457006.1	3768371	7.359E-09	3.77E-10	0.00E+00	7.74E-09	7.36E-09	3.77E-10	0.00E+00	7.74E-09	2.20E-09	6.78E-11	0.00E+00	2.27E-09	8.35E-10	2.19E-11	0.00E+00	8.57E-10
5481	457002.2	3768362	7.477E-09	3.83E-10	0.00E+00	7.86E-09	7.48E-09	3.83E-10	0.00E+00	7.86E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.23E-11	0.00E+00	8.71E-10
5482	456998.4	3768353	7.598E-09	3.90E-10	0.00E+00	7.99E-09	7.60E-09	3.90E-10	0.00E+00	7.99E-09	2.28E-09	7.00E-11	0.00E+00	2.35E-09	8.62E-10	2.26E-11	0.00E+00	8.85E-10
5483	456994.6	3768344	7.721E-09	3.96E-10	0.00E+00	8.12E-09	7.72E-09	3.96E-10	0.00E+00	8.12E-09	2.31E-09	7.12E-11	0.00E+00	2.38E-09	8.76E-10	2.30E-11	0.00E+00	8.99E-10
5484	456990.8	3768335	7.846E-09	4.02E-10	0.00E+00	8.25E-09	7.85E-09	4.02E-10	0.00E+00	8.25E-09	2.35E-09	7.23E-11	0.00E+00	2.42E-09	8.90E-10	2.33E-11	0.00E+00	9.14E-10
5485	456986.9	3768326	7.974E-09	4.09E-10	0.00E+00	8.38E-09	7.97E-09	4.09E-10	0.00E+00	8.38E-09	2.39E-09	7.35E-11	0.00E+00	2.46E-09	9.05E-10	2.37E-11	0.00E+00	9.28E-10

5486	456983.1	3768317	8.103E-09	4.15E-10	0.00E+00	8.52E-09	8.10E-09	4.15E-10	0.00E+00	8.52E-09	2.43E-09	7.47E-11	0.00E+00	2.50E-09	9.19E-10	2.41E-11	0.00E+00	9.43E-10
5487	456979.3	3768308	8.232E-09	4.22E-10	0.00E+00	8.65E-09	8.23E-09	4.22E-10	0.00E+00	8.65E-09	2.47E-09	7.59E-11	0.00E+00	2.54E-09	9.34E-10	2.45E-11	0.00E+00	9.58E-10
5488	456975.5	3768299	8.363E-09	4.29E-10	0.00E+00	8.79E-09	8.36E-09	4.29E-10	0.00E+00	8.79E-09	2.50E-09	7.71E-11	0.00E+00	2.58E-09	9.49E-10	2.49E-11	0.00E+00	9.74E-10
5489	456971.6	3768290	8.494E-09	4.35E-10	0.00E+00	8.93E-09	8.49E-09	4.35E-10	0.00E+00	8.93E-09	2.54E-09	7.83E-11	0.00E+00	2.62E-09	9.64E-10	2.53E-11	0.00E+00	9.89E-10
5490	456967.8	3768280	8.628E-09	4.42E-10	0.00E+00	9.07E-09	8.63E-09	4.42E-10	0.00E+00	9.07E-09	2.58E-09	7.95E-11	0.00E+00	2.66E-09	9.79E-10	2.57E-11	0.00E+00	1.00E-09
5491	456964	3768271	8.764E-09	4.49E-10	0.00E+00	9.21E-09	8.76E-09	4.49E-10	0.00E+00	9.21E-09	2.62E-09	8.08E-11	0.00E+00	2.71E-09	9.94E-10	2.61E-11	0.00E+00	1.02E-09
5492	456960.2	3768262	8.9E-09	4.56E-10	0.00E+00	9.36E-09	8.90E-09	4.56E-10	0.00E+00	9.36E-09	2.67E-09	8.20E-11	0.00E+00	2.75E-09	1.01E-09	2.65E-11	0.00E+00	1.04E-09
5493	456956.3	3768253	9.036E-09	4.63E-10	0.00E+00	9.50E-09	9.04E-09	4.63E-10	0.00E+00	9.50E-09	2.71E-09	8.33E-11	0.00E+00	2.79E-09	1.03E-09	2.69E-11	0.00E+00	1.05E-09
5494	456952.5	3768244	9.171E-09	4.70E-10	0.00E+00	9.64E-09	9.17E-09	4.70E-10	0.00E+00	9.64E-09	2.75E-09	8.45E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
5495	457333.8	3768607	6.826E-09	3.50E-10	0.00E+00	7.18E-09	6.83E-09	3.50E-10	0.00E+00	7.18E-09	2.04E-09	6.29E-11	0.00E+00	2.11E-09	7.74E-10	2.03E-11	0.00E+00	7.95E-10
5496	457343.8	3768607	6.938E-09	3.56E-10	0.00E+00	7.29E-09	6.94E-09	3.56E-10	0.00E+00	7.29E-09	2.08E-09	6.40E-11	0.00E+00	2.14E-09	7.87E-10	2.06E-11	0.00E+00	8.08E-10
5497	457353.8	3768607	7.055E-09	3.62E-10	0.00E+00	7.42E-09	7.06E-09	3.62E-10	0.00E+00	7.42E-09	2.11E-09	6.50E-11	0.00E+00	2.18E-09	8.00E-10	2.10E-11	0.00E+00	8.21E-10
5498	457363.7	3768607	7.178E-09	3.68E-10	0.00E+00	7.55E-09	7.18E-09	3.68E-10	0.00E+00	7.55E-09	2.15E-09	6.62E-11	0.00E+00	2.22E-09	8.14E-10	2.14E-11	0.00E+00	8.36E-10
5499	457373.7	3768607	7.308E-09	3.75E-10	0.00E+00	7.68E-09	7.31E-09	3.75E-10	0.00E+00	7.68E-09	2.19E-09	6.74E-11	0.00E+00	2.26E-09	8.29E-10	2.17E-11	0.00E+00	8.51E-10
5500	457383.7	3768607	7.445E-09	3.82E-10	0.00E+00	7.83E-09	7.44E-09	3.82E-10	0.00E+00	7.83E-09	2.23E-09	6.86E-11	0.00E+00	2.30E-09	8.45E-10	2.22E-11	0.00E+00	8.67E-10
5501	457393.6	3768607	7.588E-09	3.89E-10	0.00E+00	7.98E-09	7.59E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	6.99E-11	0.00E+00	2.34E-09	8.61E-10	2.26E-11	0.00E+00	8.83E-10
5502	457403.6	3768607	7.737E-09	3.97E-10	0.00E+00	8.13E-09	7.74E-09	3.97E-10	0.00E+00	8.13E-09	2.32E-09	7.13E-11	0.00E+00	2.39E-09	8.78E-10	2.30E-11	0.00E+00	9.01E-10
5503	457413.6	3768607	7.894E-09	4.05E-10	0.00E+00	8.30E-09	7.89E-09	4.05E-10	0.00E+00	8.30E-09	2.36E-09	7.28E-11	0.00E+00	2.44E-09	8.96E-10	2.35E-11	0.00E+00	9.19E-10
5504	457423.6	3768607	8.061E-09	4.13E-10	0.00E+00	8.47E-09	8.06E-09	4.13E-10	0.00E+00	8.47E-09	2.41E-09	7.43E-11	0.00E+00	2.49E-09	9.15E-10	2.40E-11	0.00E+00	9.38E-10
5505	457433.5	3768607	8.238E-09	4.22E-10	0.00E+00	8.66E-09	8.24E-09	4.22E-10	0.00E+00	8.66E-09	2.47E-09	7.59E-11	0.00E+00	2.54E-09	9.35E-10	2.45E-11	0.00E+00	9.59E-10
5506	457443.5	3768607	8.424E-09	4.32E-10	0.00E+00	8.86E-09	8.42E-09	4.32E-10	0.00E+00	8.86E-09	2.52E-09	7.77E-11	0.00E+00	2.60E-09	9.56E-10	2.51E-11	0.00E+00	9.81E-10
5507	457453.5	3768607	8.621E-09	4.42E-10	0.00E+00	9.06E-09	8.62E-09	4.42E-10	0.00E+00	9.06E-09	2.58E-09	7.95E-11	0.00E+00	2.66E-09	9.78E-10	2.57E-11	0.00E+00	1.00E-09
5508	457463.4	3768607	8.829E-09	4.53E-10	0.00E+00	9.28E-09	8.83E-09	4.53E-10	0.00E+00	9.28E-09	2.64E-09	8.14E-11	0.00E+00	2.73E-09	1.00E-09	2.63E-11	0.00E+00	1.03E-09
5509	457473.4	3768607	9.049E-09	4.64E-10	0.00E+00	9.51E-09	9.05E-09	4.64E-10	0.00E+00	9.51E-09	2.71E-09	8.34E-11	0.00E+00	2.79E-09	1.03E-09	2.69E-11	0.00E+00	1.05E-09
5510	457483.4	3768607	8.793E-09	4.51E-10	0.00E+00	9.24E-09	8.79E-09	4.51E-10	0.00E+00	9.24E-09	2.63E-09	8.11E-11	0.00E+00	2.71E-09	9.98E-10	2.62E-11	0.00E+00	1.02E-09
5511	457493.3	3768607	8.973E-09	4.60E-10	0.00E+00	9.43E-09	8.97E-09	4.60E-10	0.00E+00	9.43E-09	2.69E-09	8.27E-11	0.00E+00	2.77E-09	1.02E-09	2.67E-11	0.00E+00	1.04E-09
5512	457503.3	3768607	9.161E-09	4.70E-10	0.00E+00	9.63E-09	9.16E-09	4.70E-10	0.00E+00	9.63E-09	2.74E-09	8.44E-11	0.00E+00	2.83E-09	1.04E-09	2.73E-11	0.00E+00	1.07E-09
5513	457513.3	3768607	9.364E-09	4.80E-10	0.00E+00	9.84E-09	9.36E-09	4.80E-10	0.00E+00	9.84E-09	2.80E-09	8.63E-11	0.00E+00	2.89E-09	1.06E-09	2.79E-11	0.00E+00	1.09E-09
5514	457523.3	3768607	9.586E-09	4.91E-10	0.00E+00	1.01E-08	9.59E-09	4.91E-10	0.00E+00	1.01E-08	2.87E-09	8.84E-11	0.00E+00	2.96E-09	1.09E-09	2.85E-11	0.00E+00	1.12E-09
5515	457533.2	3768607	9.819E-09	5.03E-10	0.00E+00	1.03E-08	9.82E-09	5.03E-10	0.00E+00	1.03E-08	2.94E-09	9.05E-11	0.00E+00	3.03E-09	1.11E-09	2.92E-11	0.00E+00	1.14E-09
5516	457543.2	3768607	1.007E-08	5.16E-10	0.00E+00	1.06E-08	1.01E-08	5.16E-10	0.00E+00	1.06E-08	3.02E-09	9.28E-11	0.00E+00	3.11E-09	1.14E-09	3.00E-11	0.00E+00	1.17E-09
5517	457553.2	3768607	1.034E-08	5.30E-10	0.00E+00	1.09E-08	1.03E-08	5.30E-10	0.00E+00	1.09E-08	3.10E-09	9.53E-11	0.00E+00	3.19E-09	1.17E-09	3.08E-11	0.00E+00	1.20E-09
5518	457563.1	3768607	1.062E-08	5.44E-10	0.00E+00	1.12E-08	1.06E-08	5.44E-10	0.00E+00	1.12E-08	3.18E-09	9.79E-11	0.00E+00	3.28E-09	1.20E-09	3.16E-11	0.00E+00	1.24E-09
5519	457573.1	3768607	1.09E-08	5.59E-10	0.00E+00	1.15E-08	1.09E-08	5.59E-10	0.00E+00	1.15E-08	3.27E-09	1.01E-10	0.00E+00	3.37E-09	1.24E-09	3.24E-11	0.00E+00	1.27E-09
5520	457583.1	3768607	1.118E-08	5.73E-10	0.00E+00	1.17E-08	1.12E-08	5.73E-10	0.00E+00	1.17E-08	3.35E-09	1.03E-10	0.00E+00	3.45E-09	1.27E-09	3.33E-11	0.00E+00	1.30E-09
5521	457593.1	3768607	1.146E-08	5.87E-10	0.00E+00	1.20E-08	1.15E-08	5.87E-10	0.00E+00	1.20E-08	3.43E-09	1.06E-10	0.00E+00	3.54E-09	1.30E-09	3.41E-11	0.00E+00	1.33E-09
5522	457603	3768607	1.176E-08	6.03E-10	0.00E+00	1.24E-08	1.18E-08	6.03E-10	0.00E+00	1.24E-08	3.52E-09	1.08E-10	0.00E+00	3.63E-09	1.33E-09	3.50E-11	0.00E+00	1.37E-09
5523	457613	3768607	1.21E-08	6.20E-10	0.00E+00	1.27E-08	1.21E-08	6.20E-10	0.00E+00	1.27E-08	3.63E-09	1.12E-10	0.00E+00	3.74E-09	1.37E-09	3.60E-11	0.00E+00	1.41E-09
5524	457623	3768607	1.246E-08	6.39E-10	0.00E+00	1.31E-08	1.25E-08	6.39E-10	0.00E+00	1.31E-08	3.73E-09	1.15E-10	0.00E+00	3.85E-09	1.41E-09	3.71E-11	0.00E+00	1.45E-09
5525	457632.9	3768607	1.282E-08	6.57E-10	0.00E+00	1.35E-08	1.28E-08	6.57E-10	0.00E+00	1.35E-08	3.84E-09	1.18E-10	0.00E+00	3.96E-09	1.45E-09	3.81E-11	0.00E+00	1.49E-09
5526	457642.9	3768607	1.317E-08	6.75E-10	0.00E+00	1.38E-08	1.32E-08	6.75E-10	0.00E+00	1.38E-08	3.95E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
5527	457652.9	3768607	1.354E-08	6.94E-10	0.00E+00	1.42E-08	1.35E-08	6.94E-10	0.00E+00	1.42E-08	4.06E-09	1.25E-10	0.00E+00	4.18E-09	1.54E-09	4.03E-11	0.00E+00	1.58E-09
5528	457662.8	3768607	1.392E-08	7.14E-10	0.00E+00	1.46E-08	1.39E-08	7.14E-10	0.00E+00	1.46E-08	4.17E-09	1.28E-10	0.00E+00	4.30E-09	1.58E-09	4.14E-11	0.00E+00	1.62E-09
5529	457672.8	3768607	1.433E-08	7.34E-10	0.00E+00	1.51E-08	1.43E-08	7.34E-10	0.00E+00	1.51E-08	4.29E-09	1.32E-10	0.00E+00	4.42E-09	1.63E-09	4.26E-11	0.00E+00	1.67E-09
5530	457682.8	3768607	1.474E-08	7.56E-10	0.00E+00	1.55E-08	1.47E-08	7.56E-10	0.00E+00	1.55E-08	4.41E-09	1.36E-10	0.00E+00	4.55E-09	1.67E-09	4.39E-11	0.00E+00	1.72E-09
5531	457692.8	3768607	1.515E-08	7.76E-10	0.00E+00	1.59E-08	1.51E-08	7.76E-10	0.00E+00	1.59E-08	4.54E-09	1.40E-10	0.00E+00	4.68E-09	1.72E-09	4.51E-11	0.00E+00	1.76E-09
5532	457702.7	3768607	1.552E-08	7.96E-10	0.00E+00	1.63E-08	1.55E-08	7.96E-10	0.00E+00	1.63E-08	4.65E-09	1.43E-10	0.00E+00	4.79E-09	1.76E-09	4.62E-11	0.00E+00	1.81E-09
5533	457296.6	3768621	6.157E-09	3.16E-10	0.00E+00	6.47E-09	6.16E-09	3.16E-10	0.00E+00	6.47E-09	1.84E-09	5.68E-11	0.00E+00	1.90E-09	6.99E-10	1.83E-11	0.00E+00	7.17E-10
5534	457287.5	3768617	6.146E-09	3.15E-10	0.00E+00	6.46E-09	6.15E-09	3.15E-10	0.00E+00	6.46E-09	1.84E-09	5.67E-11	0.00E+00	1.90E-09	6.97E-10	1.83E-11	0.00E+00	7.16E-10
5535	457278.4	3768613	6.134E-09	3.14E-10	0.00E+00	6.45E-09	6.13E-09	3.14E-10	0.00E+00	6.45E-09	1.84E-09	5.65E-11	0.00E+00	1.89E-09	6.96E-10	1.83E-11	0.00E+00	7.14E-10
5536	457269.3	3768610	6.122E-09	3.14E-10	0.00E+00	6.44E-09	6.12E-09	3.14E-10	0.00E+00	6.44E-09	1.83E-09	5.64E-11	0.00E+00	1.89E-09	6.95E-10	1.82E-11	0.00E+00	7.13E-10
5537	457260.2	3768606	6.11E-09	3.13E-10	0.00E+00	6.42E-09	6.11E-09	3.13E-10	0.00E+00	6.42E-09	1.83E-09	5.63E-11	0.00E+00	1.89E-09	6.93E-10	1.82E-11	0.00E+00	7.11E-10
5538	457251.1	3768602	6.097E-09	3.13E-10	0.00E+00	6.41E-09	6.10E-09	3.13E-10	0.00E+00	6.41E-09	1.83E-09	5.62E-11	0.00E+00	1.88E-09	6.92E-10	1.81E-11	0.00E+00	7.10E-10
5539	457242	3768598	6.084E-09	3.12E-10	0.00E+00	6.40E-09	6.08E-09	3.12E-10	0.00E+00	6.40E-09	1.82E-09	5.61E-11	0.00E+00	1.88E-09	6.90E-10	1.81E-11	0.00E+00	7.08E-10
5540	457232.9	3768595	6.069E-09	3.11E-10	0.00E+00	6.38E-09	6.07E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.59E-11	0.00E+00	1.87E-09	6.89E-10	1.81E-11	0.00E+00	7.07E-10
5541	457223.8	3768591	6.053E-09	3.10E-10	0.00E+00	6.36E-09	6.05E-09	3.10E-10	0.00E+00	6.36E-09	1.81E-09	5.58E-11	0.00E+00	1.87E-09	6.87E-10	1.80E-11	0.00E+00	7.05E-10
5542	457214.8	3768587	6.036E-09	3.09E-10	0.00E+00	6.35E-09	6.04E-09	3.09E-10	0.00E+00	6.35E-09	1.81E-09	5.56E-11	0.00E+00	1.86E-09	6.85E-10	1.80E-11	0.00E+00	7.03E-10
5543	457205.7	3768584	6.017E-09	3.08E-10	0.00E+00	6.33E-09	6.02E-09	3.08E-10	0.00E+00	6.33E-09	1.80E-09	5.55E-11	0.00E+00	1.86E-09	6.83E-10	1.79E-11	0.00E+00	7.01E-10
5544	457196.6	3768580	5.996E-09	3.07E-10	0.00E+00	6.30E-09	6.00E-09	3.07E-10	0.00E+00	6.30E-09	1.80E-09	5.53E-11	0.00E+00	1.85E-09	6.80E-10	1.78E-11	0.00E+00	6.98E-10
5545	457187.5	3768576	5.973E-09	3.06E-10	0.00E+00	6.28E-09	5.97E-09	3.06E-10	0.00E+00	6.28E-09	1.79E-09	5.51E-11	0.00E+00	1.84E-09	6.78E-10	1.78E-11	0.00E+00	6.95E-10
5546	457178.4	3768572	5.95E-09	3.05E-10	0.00E+00	6.25E-09	5.95E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.84E-09	6.75E-10	1.77E-11	0.00E+00	6.93E-10
5547	457169.3	3768569	5.924E-09	3.04E-10	0.00E+00	6.23E-09	5.92E-09	3.04E-10	0.00E+00	6.23E-09	1.77E-09	5.46E-11	0.00E+00	1.83E-09	6.72E-10	1.76E-11	0.00E+00	6.90E-10
5548	457160.2	3768565	5.898E-09	3.02E-10	0.00E+00	6.20E-09	5.90E-09	3.02E-10	0.00E+00	6.20E-09	1.77E-09	5.44E-11	0.00E+00	1.82E-09	6.69E-10	1.75E-11	0.00E+00	6.87E-10
5549	457151.1	3768561	5.869E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.83E-10
5550	457142	3768557	5.84E-09	2.99E-10	0.00E+00	6.14E-09	5.84E-09	2.99E-10	0.00E+00	6.14E-09	1.75E-09	5.38E-11	0.00E+00	1.80E-09	6.63E-10	1.74E-11	0.00E+00	6.80E-10
5551	457132.9	3768554	5.808E-09	2.98E-10	0.00E+00	6.11E-09	5.81E-09	2.98E-10	0.00E+00	6.11E-09	1.74E-09	5.35E-11	0.00E+00	1.79E-09	6.59E-10	1.73E-11	0.00E+00	6.76E-10
5552	457123.8	3768550	5.776E-09	2.96E-10	0.00E+00	6.07E-09	5.78E-09	2.96E-10	0.00E+00	6.07E-09	1.73E-09	5.32E-11	0.00E+00	1.78E-09	6.55E-10	1.72E-11	0.00E+00	6.72E-10
5553	457114.7	3768546	5.742E-09	2.94E-10	0.00E+00	6.04E-09	5.74E-09	2.94E-10	0.00E+00	6.04E-09	1.72E-09	5.29E-11	0.00E+00	1.77E-09	6.51E-10	1.71E-11	0.00E+00	6.69E-10
5554	457105.6	3768542	5.707E-09	2.93E-10	0.00E+00	6.00E-09	5.71E-09	2.93E-10	0.00E+00	6.00E-09	1.71E-09	5.26E-11	0.00E+00	1.76E-09	6.47E-10	1.70E-11	0.00E+00	6.64E-10
5555	457096.5	3768539	5.67E-09	2.91E-10	0.00E+00	5.96E-09	5.67E-09	2.91E-10	0.00E+00	5.96E-09	1.70E-09	5.23E-11	0.00E+00	1.75E-09	6.43E-10	1.69E-11	0.00E+00	6.60E-10
5556	457087.5	3768535	5.632E-09	2.89E-10	0.00E+00	5.92E-09	5.63E-09	2.89E-10	0.00E+00	5.92E-09	1.69E-09	5.19E-11	0.00E+00	1.74E-09	6.39E-10	1.68E-11	0.00E+00	6.56E-10
5557	457078.4	3768531	5.594E-09	2.87E-10	0.00E+00	5.88E-09	5.59E-09	2.87E-10	0.00E+00	5.88E-09	1.68E-09	5.16E-11	0.00E+00	1.73E-09	6.35E-10	1.66E-11	0.00E+00	6.51E-10
5558	457069.3	3768527	5.554E-09	2.85E-10	0.00E+00	5.84E-09	5.55E-09	2.85E-10	0.00E+00	5.84E-09	1.66E-09	5.12E-11	0.00E+00	1.71E-09	6.30E-10	1.65E-11	0.00E+00	6.47E-10
5559	457060.2	3768524	5.514E-09	2.83E-10	0.00E+00	5.80E-09	5.51E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.08E-11	0.00E+00	1.70E-09	6.26E-10	1.64E-11	0.00E+00	6.42E-10
5560	457051.1	3768520	5.472E-09	2.81E-10	0.00E+00	5.75E-09	5.47E-09	2.81E-10	0.00E+00	5.75E-09	1.64E-09	5.04E-11	0.00E+00	1.69E-09	6.21E-10	1.63E-11	0.00E+00	6.37E-10
5561	457038.2	3768507	5.513E-09	2.83E-10	0.00E+00	5.80E-09	5.51E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.08E-11	0.00E+00	1.70E-09	6.25E-10	1.64E-11	0.00E+00	6.42E-10
5562	457034.4	3768498	5.596E-09	2.87E-10	0.00E+00	5.88E-09	5.60E-09	2.87E-10	0.00E+00	5.88E-09	1.68E-09	5.16E-11	0.00E+00	1.73E-09	6.35E-10	1.67E-11	0.00E+00	6.52E-10
5563	457030.5	3768489	5.682E-09	2.91E-10	0.00E+00	5.97E-09	5.68E-09	2.91E-10	0.00E+00	5.97E-09	1.70E-09	5.24E-11	0.00E+00	1.75E-09	6.45E-10	1.69E-11	0.00E+00	6.62E-10
5564	457026.7	3768480	5.77E-09	2.96E-10	0.00E+00	6.07E-09	5.77E-09	2.96E-10	0.00E+00	6.07E-09	1.73E-09	5.32E-11	0.00E+00	1.78E-09	6.55E-10	1.72E-11	0.00E+00	6.72E-10
5565	457022.9	3768471	5.859E-09	3.00E-10	0.00E+00	6.16E-09	5.86E-09	3.00E-10	0.00E+00	6.16E-09	1.75E-09	5.40E-11	0.00E+00	1.81E-09	6.65E-10	1.74E-11	0.00E+00	6.82E-10
5566	457019.1	3768462	5.949E-09	3.05E-10	0.00E+00	6.25E-09	5.95E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.84E-09	6.75E-10	1.77E-11	0.00E+00	6.93E-10
5567	457015.3	3768453	6.04E-09	3.10E-10	0.00E+00	6.35E-09	6.04E-09	3.10E-10	0.00E+00	6.35E-09	1.81E-09	5.57E-11	0.00E+00	1.86E-09	6.85E-10	1.80E-11	0.00E+00	7.03E-10
5568	456996.2	3768407	6.518E-09	3.34E-10	0.00E+00	6.85E-09	6.52E-09	3.34E-10	0.00E+00	6.85E-09	1.95E-09	6.01E-11	0.00E+00	2.01E-09	7.40E-10	1.94E-11	0.00E+00	7.59E-10
5569	456992.4	3768398	6.62E-09	3.39E-10	0.00E+00	6.96E-09	6.62E-09	3.39E-10	0.00E+00	6.96E-09	1.98E-09	6.10E-11	0.00E+00	2.04E-09	7.51E-10	1.97E-11	0.00E+00	7.71E-10
5570	456988.6	3768389	6.722E-09	3.45E-10	0.00E+00	7.07E-09	6.72E-09	3.45E-10	0.00E+00	7.07E-09	2.01E-09	6.20E-11	0.00E+00	2.08E-09	7.63E-10	2.00E-11	0.00E+00	7.83E-10
5571	456984.8	3768380	6.826E-09	3.50E-10	0.00E+00	7.18E-09	6.83E-09	3.50E-10	0.00E+00	7.18E-09	2.04E-09	6.29E-11	0.00E+00	2.11E-09	7.74E-10	2.03E-11	0.00E+00	7.95E-10
5572	456980.9	3768371	6.931E-09	3.55E-10	0.00E+00	7.29E-09	6.93E-09	3.55E-10	0.00E+00	7.29E-09	2.08E-09	6.39E-11	0.00E+00	2.14E-09	7.86E-10	2.06E-11	0.00E+00	8.07E-10
5573	456977.1	3768362	7.037E-09	3.61E-10	0.00E+00	7.40E-09	7.04E-09	3.61E-10	0.00E+00	7.40E-09	2.11E-09	6.49E-11	0.00E+00	2.17E-09	7.98E-10	2.09E-11	0.00E+00	8.19E-10
5574	456973.3	3768353	7.145E-09	3.66E-10	0.00E+00	7.51E-09	7.14E-09	3.66E-10	0.00E+00	7.51E-09	2.14E-09	6.59E-11	0.00E+00	2.21E-09	8.11E-10	2.13E-11	0.00E+00	8.32E-10
5575	456969.5	3768344	7.254E-09	3.72E-10	0.00E+00	7.63E-09	7.25E-09	3.72E-10	0.00E+00	7.63E-09	2.17E-09	6.69E-11	0.00E+00	2.24E-09	8.23E-10	2.16E-11	0.00E+00	8.45E-10
5576	456965.7	3768335	7.366E-09	3.78E-10	0.00E+00	7.74E-09	7.37E-09	3.78E-10	0.00E+00	7.74E-09	2.21E-09	6.79E-11	0.00E+00	2.27E-09	8.36E-10	2.19E-11	0.00E+00	8.58E-10
5577	456961.9	3768326	7.479E-09	3.83E-10	0.00E+00	7.86E-09	7.48E-09	3.83E-10	0.00E+00	7.86E-09	2.24E-09	6.89E-11	0.00E+00	2.31E-09	8.48E-10	2.23E-11	0.00E+00	8.71E-10
5578	456958	3768317	7.593E-09	3.89E-10	0.00E+00	7.98E-09	7.59E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	7.00E-11	0.00E+00	2.34E-09	8.61E-10	2.26E-11	0.00E+00	8.84E-10
5579	456954.2	3768308	7.708E-09	3.95E-10	0.00E+00	8.10E-09	7.71E-09	3.95E-10	0.00E+00	8.10E-09	2.31E-09	7.11E-11	0.00E+00	2.38E-09	8.74E-10	2.29E-11	0.00E+00	8.97E-10
5580	456950.4	3768299	7.824E-09	4.01E-10	0.00E+00	8.23E-09	7.82E-09	4.01E-10	0.00E+00	8.23E-09	2.34E-09	7.21E-11	0.00E+00	2.42E-09	8.88E-10	2.33E-11	0.00E+00	9.11E-10
5581	456946.6	3768290	7.942E-09	4.07E-10	0.00E+00	8.35E-09	7.94E-09	4.07E-10	0.00E+00	8.35E-09	2.38E-09	7.32E-11	0.00E+00	2.45E-09	9.01E-10	2.36E-11	0.00E+00	9.25E-10
5582	456942.8	3768281	8.061E-09	4.13E-10	0.00E+00	8.47E-09	8.06E-09	4.13E-10	0.00E+00	8.47E-09	2.41E-09	7.43E-11	0.00E+00	2.49E-09	9.15E-10	2.40E-11	0.00E+00	9.38E-10
5583	456939	3768271	8.18E-09	4.19E-10	0.00E+00	8.60E-09	8.18E-09	4.19E-10	0.00E+00	8.60E-09	2.45E-09	7.54E-11	0.00E+00	2.53E-09	9.28E-10	2.43E-11	0.00E+00	9.52E-10
5584	456935.1	3768262	8.3E-09	4.26E-10	0.00E+00	8.73E-09	8.30E-09	4.26E-10	0.00E+00	8.73E-09	2.49E-09	7.65E-11	0.00E+00	2.56E-09	9.42E-10	2.47E-11	0.00E+00	9.66E-10
5585	456931.3	3768253	8.419E-09	4.32E-10	0.00E+00	8.85E-09	8.42E-09	4.32E-10	0.00E+00	8.85E-09	2.52E-09	7.76E-11	0.00E+00	2.60E-09	9.55E-10	2.51E-11	0.00E+00	9.80E-10
5586	456927.5	3768244	8.537E-09	4.38E-10	0.00E+00	8.97E-09	8.54E-09	4.38E-10	0.00E+00	8.97E-09	2.56E-09	7.87E-11	0.00E+00	2.64E-09	9.69E-10	2.54E-11	0.00E+00	9.94E-10
5587	457333.8	3768632	6.282E-09	3.22E-10	0.00E+00	6.60E-09	6.28E-09	3.22E-10	0.00E+00	6.60E-09	1.88E-09	5.79E-11	0.00E+00	1.94E-09	7.13E-10	1.87E-11	0.00E+00	7.31E-10
5588	457343.8	3768632	6.379E-09	3.27E-10	0.00E+00	6.71E-09	6.38E-09	3.27E-10	0.00E+00	6.71E-09	1.91E-09	5.88E-11	0.00E+00	1.97E-09	7.24E-10	1.90E-11	0.00E+00	7.43E-10
5589	457353.8	3768632	6.48E-09	3.32E-10	0.00E+00	6.81E-09	6.48E-09	3.32E-10	0.00E+00	6.81E-09	1.94E-09	5.97E-11	0.00E+00	2.00E-09	7.35E-10	1.93E-11	0.00E+00	7.54E-10
5590	457363.7	3768632	6.585E-09	3.38E-10	0.00E+00	6.92E-09	6.59E-09	3.38E-10	0.00E+00	6.92E-09	1.97E-09	6.07E-11	0.00E+00	2.03E-09	7.47E-10	1.96E-11	0.00E+00	7.67E-10
5591	457373.7	3768632	6.696E-09	3.43E-10	0.00E+00	7.04E-09	6.70E-09	3.43E-10	0.00E+00	7.04E-09	2.01E-09	6.17E-11	0.00E+00	2.07E-09	7.60E-10	1.99E-11	0.00E+00	7.80E-10
5592	457383.7	3768632	6.812E-09	3.49E-10	0.00E+00	7.16E-09	6.81E-09	3.49E-10	0.00E+00	7.16E-09	2.04E-09	6.28E-11	0.00E+00	2.10E-09	7.73E-10	2.03E-11	0.00E+00	7.93E-10
5593	457393.7	3768632	6.934E-09	3.55E-10	0.00E+00	7.29E-09	6.93E-09	3.55E-10	0.00E+00	7.29E-09	2.08E-09	6.39E-11	0.00E+00	2.14E-09	7.87E-10	2.06E-11	0.00E+00	8.07E-10
5594	457403.6	3768632	7.062E-09	3.62E-10	0.00E+00	7.42E-09	7.06E-09	3.62E-10	0.00E+00	7.42E-09	2.12E-09	6.51E-11	0.00E+00	2.18E-09	8.01E-10	2.10E-11	0.00E+00	8.22E-10
5595	457413.6	3768632	7.196E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.63E-11	0.00E+00	2.22E-09	8.16E-10	2.14E-11	0.00E+00	8.38E-10
5596	457423.6	3768632	7.085E-09	3.63E-10	0.00E+00	7.45E-09	7.08E-09	3.63E-10	0.00E+00	7.45E-09	2.12E-09	6.53E-11	0.00E+00	2.19E-09	8.04E-10	2.11E-11	0.00E+00	8.25E-10
5597	457433.5	3768632	7.201E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.64E-11	0.00E+00	2.22E-09	8.17E-10	2.14E-11	0.00E+00	8.38E-10

5598	457443.5	3768632	7.321E-09	3.75E-10	0.00E+00	7.70E-09	7.32E-09	3.75E-10	0.00E+00	7.70E-09	2.19E-09	6.75E-11	0.00E+00	2.26E-09	8.31E-10	2.18E-11	0.00E+00	8.52E-10
5599	457453.5	3768632	7.452E-09	3.82E-10	0.00E+00	7.83E-09	7.45E-09	3.82E-10	0.00E+00	7.83E-09	2.23E-09	6.87E-11	0.00E+00	2.30E-09	8.45E-10	2.22E-11	0.00E+00	8.68E-10
5600	457463.4	3768632	7.596E-09	3.89E-10	0.00E+00	7.98E-09	7.60E-09	3.89E-10	0.00E+00	7.98E-09	2.27E-09	7.00E-11	0.00E+00	2.34E-09	8.62E-10	2.26E-11	0.00E+00	8.84E-10
5601	457473.4	3768632	7.747E-09	3.97E-10	0.00E+00	8.14E-09	7.75E-09	3.97E-10	0.00E+00	8.14E-09	2.32E-09	7.14E-11	0.00E+00	2.39E-09	8.79E-10	2.31E-11	0.00E+00	9.02E-10
5602	457483.4	3768632	7.902E-09	4.05E-10	0.00E+00	8.31E-09	7.90E-09	4.05E-10	0.00E+00	8.31E-09	2.37E-09	7.28E-11	0.00E+00	2.44E-09	8.97E-10	2.35E-11	0.00E+00	9.20E-10
5603	457493.4	3768632	8.057E-09	4.13E-10	0.00E+00	8.47E-09	8.06E-09	4.13E-10	0.00E+00	8.47E-09	2.41E-09	7.43E-11	0.00E+00	2.49E-09	9.14E-10	2.40E-11	0.00E+00	9.38E-10
5604	457503.3	3768632	8.218E-09	4.21E-10	0.00E+00	8.64E-09	8.22E-09	4.21E-10	0.00E+00	8.64E-09	2.46E-09	7.58E-11	0.00E+00	2.54E-09	9.32E-10	2.45E-11	0.00E+00	9.57E-10
5605	457513.3	3768632	8.393E-09	4.30E-10	0.00E+00	8.82E-09	8.39E-09	4.30E-10	0.00E+00	8.82E-09	2.51E-09	7.74E-11	0.00E+00	2.59E-09	9.52E-10	2.50E-11	0.00E+00	9.77E-10
5606	457523.3	3768632	8.586E-09	4.40E-10	0.00E+00	9.03E-09	8.59E-09	4.40E-10	0.00E+00	9.03E-09	2.57E-09	7.91E-11	0.00E+00	2.65E-09	9.74E-10	2.56E-11	0.00E+00	1.00E-09
5607	457533.2	3768632	8.79E-09	4.51E-10	0.00E+00	9.24E-09	8.79E-09	4.51E-10	0.00E+00	9.24E-09	2.63E-09	8.10E-11	0.00E+00	2.71E-09	9.97E-10	2.62E-11	0.00E+00	1.02E-09
5608	457543.2	3768632	8.997E-09	4.61E-10	0.00E+00	9.46E-09	9.00E-09	4.61E-10	0.00E+00	9.46E-09	2.69E-09	8.29E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
5609	457553.2	3768632	9.199E-09	4.72E-10	0.00E+00	9.67E-09	9.20E-09	4.72E-10	0.00E+00	9.67E-09	2.76E-09	8.48E-11	0.00E+00	2.84E-09	1.04E-09	2.74E-11	0.00E+00	1.07E-09
5610	457563.2	3768632	9.413E-09	4.83E-10	0.00E+00	9.90E-09	9.41E-09	4.83E-10	0.00E+00	9.90E-09	2.82E-09	8.68E-11	0.00E+00	2.91E-09	1.07E-09	2.80E-11	0.00E+00	1.10E-09
5611	457573.1	3768632	9.634E-09	4.94E-10	0.00E+00	1.01E-08	9.63E-09	4.94E-10	0.00E+00	1.01E-08	2.89E-09	8.88E-11	0.00E+00	2.97E-09	1.09E-09	2.87E-11	0.00E+00	1.12E-09
5612	457583.1	3768632	9.867E-09	5.06E-10	0.00E+00	1.04E-08	9.87E-09	5.06E-10	0.00E+00	1.04E-08	2.96E-09	9.10E-11	0.00E+00	3.05E-09	1.12E-09	2.94E-11	0.00E+00	1.15E-09
5613	457593.1	3768632	1.011E-08	5.18E-10	0.00E+00	1.06E-08	1.01E-08	5.18E-10	0.00E+00	1.06E-08	3.03E-09	9.32E-11	0.00E+00	3.12E-09	1.15E-09	3.01E-11	0.00E+00	1.18E-09
5614	457603	3768632	1.037E-08	5.31E-10	0.00E+00	1.09E-08	1.04E-08	5.31E-10	0.00E+00	1.09E-08	3.10E-09	9.56E-11	0.00E+00	3.20E-09	1.18E-09	3.08E-11	0.00E+00	1.21E-09
5615	457613	3768632	1.065E-08	5.46E-10	0.00E+00	1.12E-08	1.07E-08	5.46E-10	0.00E+00	1.12E-08	3.19E-09	9.82E-11	0.00E+00	3.29E-09	1.21E-09	3.17E-11	0.00E+00	1.24E-09
5616	457623	3768632	1.095E-08	5.61E-10	0.00E+00	1.15E-08	1.09E-08	5.61E-10	0.00E+00	1.15E-08	3.28E-09	1.01E-10	0.00E+00	3.38E-09	1.24E-09	3.26E-11	0.00E+00	1.27E-09
5617	457632.9	3768632	1.125E-08	5.77E-10	0.00E+00	1.18E-08	1.13E-08	5.77E-10	0.00E+00	1.18E-08	3.37E-09	1.04E-10	0.00E+00	3.47E-09	1.28E-09	3.35E-11	0.00E+00	1.31E-09
5618	457642.9	3768632	1.157E-08	5.93E-10	0.00E+00	1.22E-08	1.16E-08	5.93E-10	0.00E+00	1.22E-08	3.46E-09	1.07E-10	0.00E+00	3.57E-09	1.31E-09	3.44E-11	0.00E+00	1.35E-09
5619	457652.9	3768632	1.19E-08	6.10E-10	0.00E+00	1.25E-08	1.19E-08	6.10E-10	0.00E+00	1.25E-08	3.56E-09	1.10E-10	0.00E+00	3.67E-09	1.35E-09	3.54E-11	0.00E+00	1.38E-09
5620	457662.9	3768632	1.222E-08	6.26E-10	0.00E+00	1.28E-08	1.22E-08	6.26E-10	0.00E+00	1.28E-08	3.66E-09	1.13E-10	0.00E+00	3.77E-09	1.39E-09	3.64E-11	0.00E+00	1.42E-09
5621	457672.8	3768632	1.253E-08	6.42E-10	0.00E+00	1.32E-08	1.25E-08	6.42E-10	0.00E+00	1.32E-08	3.75E-09	1.16E-10	0.00E+00	3.87E-09	1.42E-09	3.73E-11	0.00E+00	1.46E-09
5622	457682.8	3768632	1.285E-08	6.59E-10	0.00E+00	1.35E-08	1.29E-08	6.59E-10	0.00E+00	1.35E-08	3.85E-09	1.18E-10	0.00E+00	3.97E-09	1.46E-09	3.82E-11	0.00E+00	1.50E-09
5623	457692.8	3768632	1.318E-08	6.76E-10	0.00E+00	1.39E-08	1.32E-08	6.76E-10	0.00E+00	1.39E-08	3.95E-09	1.21E-10	0.00E+00	4.07E-09	1.49E-09	3.92E-11	0.00E+00	1.53E-09
5624	457702.7	3768632	1.351E-08	6.93E-10	0.00E+00	1.42E-08	1.35E-08	6.93E-10	0.00E+00	1.42E-08	4.05E-09	1.25E-10	0.00E+00	4.17E-09	1.53E-09	4.02E-11	0.00E+00	1.57E-09
5625	457296.5	3768661	5.449E-09	2.79E-10	0.00E+00	5.73E-09	5.45E-09	2.79E-10	0.00E+00	5.73E-09	1.63E-09	5.02E-11	0.00E+00	1.68E-09	6.18E-10	1.62E-11	0.00E+00	6.34E-10
5626	457287.4	3768657	5.444E-09	2.79E-10	0.00E+00	5.72E-09	5.44E-09	2.79E-10	0.00E+00	5.72E-09	1.63E-09	5.02E-11	0.00E+00	1.68E-09	6.18E-10	1.62E-11	0.00E+00	6.34E-10
5627	457278.3	3768653	5.438E-09	2.79E-10	0.00E+00	5.72E-09	5.44E-09	2.79E-10	0.00E+00	5.72E-09	1.63E-09	5.01E-11	0.00E+00	1.68E-09	6.17E-10	1.62E-11	0.00E+00	6.33E-10
5628	457269.2	3768650	5.433E-09	2.79E-10	0.00E+00	5.71E-09	5.43E-09	2.79E-10	0.00E+00	5.71E-09	1.63E-09	5.01E-11	0.00E+00	1.68E-09	6.16E-10	1.62E-11	0.00E+00	6.33E-10
5629	457260	3768646	5.425E-09	2.78E-10	0.00E+00	5.70E-09	5.43E-09	2.78E-10	0.00E+00	5.70E-09	1.62E-09	5.00E-11	0.00E+00	1.67E-09	6.16E-10	1.61E-11	0.00E+00	6.32E-10
5630	457250.9	3768642	5.417E-09	2.78E-10	0.00E+00	5.69E-09	5.42E-09	2.78E-10	0.00E+00	5.69E-09	1.62E-09	4.99E-11	0.00E+00	1.67E-09	6.15E-10	1.61E-11	0.00E+00	6.31E-10
5631	457241.8	3768638	5.407E-09	2.77E-10	0.00E+00	5.68E-09	5.41E-09	2.77E-10	0.00E+00	5.68E-09	1.62E-09	4.98E-11	0.00E+00	1.67E-09	6.13E-10	1.61E-11	0.00E+00	6.30E-10
5632	457232.7	3768635	5.397E-09	2.77E-10	0.00E+00	5.67E-09	5.40E-09	2.77E-10	0.00E+00	5.67E-09	1.62E-09	4.98E-11	0.00E+00	1.67E-09	6.12E-10	1.61E-11	0.00E+00	6.28E-10
5633	457223.6	3768631	5.386E-09	2.76E-10	0.00E+00	5.66E-09	5.39E-09	2.76E-10	0.00E+00	5.66E-09	1.61E-09	4.97E-11	0.00E+00	1.66E-09	6.11E-10	1.60E-11	0.00E+00	6.27E-10
5634	457214.5	3768627	5.375E-09	2.76E-10	0.00E+00	5.65E-09	5.37E-09	2.76E-10	0.00E+00	5.65E-09	1.61E-09	4.95E-11	0.00E+00	1.66E-09	6.10E-10	1.60E-11	0.00E+00	6.26E-10
5635	457205.3	3768623	5.362E-09	2.75E-10	0.00E+00	5.64E-09	5.36E-09	2.75E-10	0.00E+00	5.64E-09	1.61E-09	4.94E-11	0.00E+00	1.66E-09	6.08E-10	1.60E-11	0.00E+00	6.24E-10
5636	457196.2	3768620	5.348E-09	2.74E-10	0.00E+00	5.62E-09	5.35E-09	2.74E-10	0.00E+00	5.62E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.07E-10	1.59E-11	0.00E+00	6.23E-10
5637	457187.1	3768616	5.333E-09	2.73E-10	0.00E+00	5.61E-09	5.33E-09	2.73E-10	0.00E+00	5.61E-09	1.60E-09	4.92E-11	0.00E+00	1.65E-09	6.05E-10	1.59E-11	0.00E+00	6.21E-10
5638	457178	3768612	5.317E-09	2.73E-10	0.00E+00	5.59E-09	5.32E-09	2.73E-10	0.00E+00	5.59E-09	1.59E-09	4.90E-11	0.00E+00	1.64E-09	6.03E-10	1.58E-11	0.00E+00	6.19E-10
5639	457168.9	3768608	5.3E-09	2.72E-10	0.00E+00	5.57E-09	5.30E-09	2.72E-10	0.00E+00	5.57E-09	1.59E-09	4.89E-11	0.00E+00	1.64E-09	6.01E-10	1.58E-11	0.00E+00	6.17E-10
5640	457159.7	3768605	5.282E-09	2.71E-10	0.00E+00	5.55E-09	5.28E-09	2.71E-10	0.00E+00	5.55E-09	1.58E-09	4.87E-11	0.00E+00	1.63E-09	5.99E-10	1.57E-11	0.00E+00	6.15E-10
5641	457150.6	3768601	5.263E-09	2.70E-10	0.00E+00	5.53E-09	5.26E-09	2.70E-10	0.00E+00	5.53E-09	1.58E-09	4.85E-11	0.00E+00	1.62E-09	5.97E-10	1.57E-11	0.00E+00	6.13E-10
5642	457141.5	3768597	5.241E-09	2.69E-10	0.00E+00	5.51E-09	5.24E-09	2.69E-10	0.00E+00	5.51E-09	1.57E-09	4.83E-11	0.00E+00	1.62E-09	5.95E-10	1.56E-11	0.00E+00	6.10E-10
5643	457132.4	3768593	5.218E-09	2.68E-10	0.00E+00	5.49E-09	5.22E-09	2.68E-10	0.00E+00	5.49E-09	1.56E-09	4.81E-11	0.00E+00	1.61E-09	5.92E-10	1.55E-11	0.00E+00	6.08E-10
5644	457123.3	3768590	5.193E-09	2.66E-10	0.00E+00	5.46E-09	5.19E-09	2.66E-10	0.00E+00	5.46E-09	1.56E-09	4.79E-11	0.00E+00	1.60E-09	5.89E-10	1.55E-11	0.00E+00	6.05E-10
5645	457114.1	3768586	5.168E-09	2.65E-10	0.00E+00	5.43E-09	5.17E-09	2.65E-10	0.00E+00	5.43E-09	1.55E-09	4.76E-11	0.00E+00	1.60E-09	5.86E-10	1.54E-11	0.00E+00	6.02E-10
5646	457105	3768582	5.142E-09	2.64E-10	0.00E+00	5.41E-09	5.14E-09	2.64E-10	0.00E+00	5.41E-09	1.54E-09	4.74E-11	0.00E+00	1.59E-09	5.83E-10	1.53E-11	0.00E+00	5.99E-10
5647	457095.9	3768578	5.115E-09	2.62E-10	0.00E+00	5.38E-09	5.12E-09	2.62E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.80E-10	1.52E-11	0.00E+00	5.96E-10
5648	457086.8	3768575	5.088E-09	2.61E-10	0.00E+00	5.35E-09	5.09E-09	2.61E-10	0.00E+00	5.35E-09	1.52E-09	4.69E-11	0.00E+00	1.57E-09	5.77E-10	1.51E-11	0.00E+00	5.92E-10
5649	457077.7	3768571	5.059E-09	2.59E-10	0.00E+00	5.32E-09	5.06E-09	2.59E-10	0.00E+00	5.32E-09	1.52E-09	4.66E-11	0.00E+00	1.56E-09	5.74E-10	1.51E-11	0.00E+00	5.89E-10
5650	457068.5	3768567	5.029E-09	2.58E-10	0.00E+00	5.29E-09	5.03E-09	2.58E-10	0.00E+00	5.29E-09	1.51E-09	4.64E-11	0.00E+00	1.55E-09	5.71E-10	1.50E-11	0.00E+00	5.86E-10
5651	457059.4	3768563	4.998E-09	2.56E-10	0.00E+00	5.25E-09	5.00E-09	2.56E-10	0.00E+00	5.25E-09	1.50E-09	4.61E-11	0.00E+00	1.54E-09	5.67E-10	1.49E-11	0.00E+00	5.82E-10
5652	457050.3	3768560	4.966E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.63E-10	1.48E-11	0.00E+00	5.78E-10
5653	457041.2	3768556	4.933E-09	2.53E-10	0.00E+00	5.19E-09	4.93E-09	2.53E-10	0.00E+00	5.19E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.74E-10
5654	457032.1	3768552	4.899E-09	2.51E-10	0.00E+00	5.15E-09	4.90E-09	2.51E-10	0.00E+00	5.15E-09	1.47E-09	4.52E-11	0.00E+00	1.51E-09	5.56E-10	1.46E-11	0.00E+00	5.70E-10
5655	457022.9	3768548	4.865E-09	2.49E-10	0.00E+00	5.11E-09	4.87E-09	2.49E-10	0.00E+00	5.11E-09	1.46E-09	4.48E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.66E-10
5656	457010	3768535	4.899E-09	2.51E-10	0.00E+00	5.15E-09	4.90E-09	2.51E-10	0.00E+00	5.15E-09	1.47E-09	4.52E-11	0.00E+00	1.51E-09	5.56E-10	1.46E-11	0.00E+00	5.70E-10
5657	457006.2	3768526	4.968E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.64E-10	1.48E-11	0.00E+00	5.78E-10
5658	457002.3	3768517	5.038E-09	2.58E-10	0.00E+00	5.30E-09	5.04E-09	2.58E-10	0.00E+00	5.30E-09	1.51E-09	4.64E-11	0.00E+00	1.56E-09	5.72E-10	1.50E-11	0.00E+00	5.87E-10
5659	456998.5	3768508	5.109E-09	2.62E-10	0.00E+00	5.37E-09	5.11E-09	2.62E-10	0.00E+00	5.37E-09	1.53E-09	4.71E-11	0.00E+00	1.58E-09	5.80E-10	1.52E-11	0.00E+00	5.95E-10
5660	456994.7	3768499	5.18E-09	2.66E-10	0.00E+00	5.45E-09	5.18E-09	2.66E-10	0.00E+00	5.45E-09	1.55E-09	4.77E-11	0.00E+00	1.60E-09	5.88E-10	1.54E-11	0.00E+00	6.03E-10
5661	456990.9	3768490	5.253E-09	2.69E-10	0.00E+00	5.52E-09	5.25E-09	2.69E-10	0.00E+00	5.52E-09	1.57E-09	4.84E-11	0.00E+00	1.62E-09	5.96E-10	1.56E-11	0.00E+00	6.12E-10
5662	456987	3768481	5.327E-09	2.73E-10	0.00E+00	5.60E-09	5.33E-09	2.73E-10	0.00E+00	5.60E-09	1.60E-09	4.91E-11	0.00E+00	1.64E-09	6.04E-10	1.59E-11	0.00E+00	6.20E-10
5663	456983.2	3768472	5.402E-09	2.77E-10	0.00E+00	5.68E-09	5.40E-09	2.77E-10	0.00E+00	5.68E-09	1.62E-09	4.98E-11	0.00E+00	1.67E-09	6.13E-10	1.61E-11	0.00E+00	6.29E-10
5664	456979.4	3768463	5.479E-09	2.81E-10	0.00E+00	5.76E-09	5.48E-09	2.81E-10	0.00E+00	5.76E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.22E-10	1.63E-11	0.00E+00	6.38E-10
5665	456975.6	3768454	5.557E-09	2.85E-10	0.00E+00	5.84E-09	5.56E-09	2.85E-10	0.00E+00	5.84E-09	1.66E-09	5.12E-11	0.00E+00	1.72E-09	6.30E-10	1.65E-11	0.00E+00	6.47E-10
5666	456956.4	3768408	5.965E-09	3.06E-10	0.00E+00	6.27E-09	5.97E-09	3.06E-10	0.00E+00	6.27E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.78E-11	0.00E+00	6.95E-10
5667	456952.6	3768399	6.05E-09	3.10E-10	0.00E+00	6.36E-09	6.05E-09	3.10E-10	0.00E+00	6.36E-09	1.81E-09	5.58E-11	0.00E+00	1.87E-09	6.86E-10	1.80E-11	0.00E+00	7.04E-10
5668	456948.8	3768390	6.136E-09	3.15E-10	0.00E+00	6.45E-09	6.14E-09	3.15E-10	0.00E+00	6.45E-09	1.84E-09	5.66E-11	0.00E+00	1.89E-09	6.96E-10	1.83E-11	0.00E+00	7.14E-10
5669	456944.9	3768381	6.224E-09	3.19E-10	0.00E+00	6.54E-09	6.22E-09	3.19E-10	0.00E+00	6.54E-09	1.86E-09	5.74E-11	0.00E+00	1.92E-09	7.06E-10	1.85E-11	0.00E+00	7.25E-10
5670	456941.1	3768372	6.312E-09	3.24E-10	0.00E+00	6.64E-09	6.31E-09	3.24E-10	0.00E+00	6.64E-09	1.89E-09	5.82E-11	0.00E+00	1.95E-09	7.16E-10	1.88E-11	0.00E+00	7.35E-10
5671	456937.3	3768363	6.403E-09	3.28E-10	0.00E+00	6.73E-09	6.40E-09	3.28E-10	0.00E+00	6.73E-09	1.92E-09	5.90E-11	0.00E+00	1.98E-09	7.26E-10	1.91E-11	0.00E+00	7.46E-10
5672	456933.5	3768354	6.496E-09	3.33E-10	0.00E+00	6.83E-09	6.50E-09	3.33E-10	0.00E+00	6.83E-09	1.95E-09	5.99E-11	0.00E+00	2.01E-09	7.37E-10	1.93E-11	0.00E+00	7.56E-10
5673	456929.6	3768345	6.589E-09	3.38E-10	0.00E+00	6.93E-09	6.59E-09	3.38E-10	0.00E+00	6.93E-09	1.97E-09	6.07E-11	0.00E+00	2.03E-09	7.48E-10	1.96E-11	0.00E+00	7.67E-10
5674	456925.8	3768336	6.682E-09	3.43E-10	0.00E+00	7.02E-09	6.68E-09	3.43E-10	0.00E+00	7.02E-09	2.00E-09	6.16E-11	0.00E+00	2.06E-09	7.58E-10	1.99E-11	0.00E+00	7.78E-10
5675	456899	3768272	7.364E-09	3.78E-10	0.00E+00	7.74E-09	7.36E-09	3.78E-10	0.00E+00	7.74E-09	2.21E-09	6.79E-11	0.00E+00	2.27E-09	8.36E-10	2.19E-11	0.00E+00	8.57E-10
5676	456895.2	3768263	7.463E-09	3.83E-10	0.00E+00	7.85E-09	7.46E-09	3.83E-10	0.00E+00	7.85E-09	2.24E-09	6.88E-11	0.00E+00	2.30E-09	8.47E-10	2.22E-11	0.00E+00	8.69E-10
5677	456891.4	3768254	7.563E-09	3.88E-10	0.00E+00	7.95E-09	7.56E-09	3.88E-10	0.00E+00	7.95E-09	2.27E-09	6.97E-11	0.00E+00	2.34E-09	8.58E-10	2.25E-11	0.00E+00	8.81E-10
5678	456887.5	3768245	7.663E-09	3.93E-10	0.00E+00	8.06E-09	7.66E-09	3.93E-10	0.00E+00	8.06E-09	2.30E-09	7.06E-11	0.00E+00	2.37E-09	8.69E-10	2.28E-11	0.00E+00	8.92E-10
5679	457333.9	3768672	5.546E-09	2.84E-10	0.00E+00	5.83E-09	5.55E-09	2.84E-10	0.00E+00	5.83E-09	1.66E-09	5.11E-11	0.00E+00	1.71E-09	6.29E-10	1.65E-11	0.00E+00	6.46E-10
5680	457343.8	3768672	5.625E-09	2.88E-10	0.00E+00	5.91E-09	5.62E-09	2.88E-10	0.00E+00	5.91E-09	1.68E-09	5.18E-11	0.00E+00	1.74E-09	6.38E-10	1.67E-11	0.00E+00	6.55E-10
5681	457353.8	3768672	5.706E-09	2.93E-10	0.00E+00	6.00E-09	5.71E-09	2.93E-10	0.00E+00	6.00E-09	1.71E-09	5.26E-11	0.00E+00	1.76E-09	6.47E-10	1.70E-11	0.00E+00	6.64E-10
5682	457363.8	3768672	5.657E-09	2.90E-10	0.00E+00	5.95E-09	5.66E-09	2.90E-10	0.00E+00	5.95E-09	1.69E-09	5.21E-11	0.00E+00	1.75E-09	6.42E-10	1.68E-11	0.00E+00	6.59E-10
5683	457373.7	3768672	5.725E-09	2.94E-10	0.00E+00	6.02E-09	5.73E-09	2.94E-10	0.00E+00	6.02E-09	1.71E-09	5.28E-11	0.00E+00	1.77E-09	6.50E-10	1.70E-11	0.00E+00	6.67E-10
5684	457383.7	3768672	5.796E-09	2.97E-10	0.00E+00	6.09E-09	5.80E-09	2.97E-10	0.00E+00	6.09E-09	1.74E-09	5.34E-11	0.00E+00	1.79E-09	6.58E-10	1.72E-11	0.00E+00	6.75E-10
5685	457393.7	3768672	5.872E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.84E-10
5686	457403.6	3768672	5.957E-09	3.05E-10	0.00E+00	6.26E-09	5.96E-09	3.05E-10	0.00E+00	6.26E-09	1.78E-09	5.49E-11	0.00E+00	1.84E-09	6.76E-10	1.77E-11	0.00E+00	6.94E-10
5687	457413.6	3768672	6.046E-09	3.10E-10	0.00E+00	6.36E-09	6.05E-09	3.10E-10	0.00E+00	6.36E-09	1.81E-09	5.57E-11	0.00E+00	1.87E-09	6.86E-10	1.80E-11	0.00E+00	7.04E-10
5688	457423.6	3768672	6.137E-09	3.15E-10	0.00E+00	6.45E-09	6.14E-09	3.15E-10	0.00E+00	6.45E-09	1.84E-09	5.66E-11	0.00E+00	1.89E-09	6.96E-10	1.83E-11	0.00E+00	7.15E-10
5689	457433.6	3768672	6.232E-09	3.19E-10	0.00E+00	6.55E-09	6.23E-09	3.19E-10	0.00E+00	6.55E-09	1.87E-09	5.74E-11	0.00E+00	1.92E-09	7.07E-10	1.85E-11	0.00E+00	7.26E-10
5690	457443.5	3768672	6.33E-09	3.25E-10	0.00E+00	6.65E-09	6.33E-09	3.25E-10	0.00E+00	6.65E-09	1.90E-09	5.83E-11	0.00E+00	1.95E-09	7.18E-10	1.88E-11	0.00E+00	7.37E-10
5691	457453.5	3768672	6.433E-09	3.30E-10	0.00E+00	6.76E-09	6.43E-09	3.30E-10	0.00E+00	6.76E-09	1.93E-09	5.93E-11	0.00E+00	1.99E-09	7.30E-10	1.91E-11	0.00E+00	7.49E-10
5692	457463.5	3768672	6.543E-09	3.35E-10	0.00E+00	6.88E-09	6.54E-09	3.35E-10	0.00E+00	6.88E-09	1.96E-09	6.03E-11	0.00E+00	2.02E-09	7.42E-10	1.95E-11	0.00E+00	7.62E-10
5693	457473.4	3768672	6.659E-09	3.41E-10	0.00E+00	7.00E-09	6.66E-09	3.41E-10	0.00E+00	7.00E-09	1.99E-09	6.14E-11	0.00E+00	2.06E-09	7.55E-10	1.98E-11	0.00E+00	7.75E-10
5694	457483.4	3768672	6.779E-09	3.48E-10	0.00E+00	7.13E-09	6.78E-09	3.48E-10	0.00E+00	7.13E-09	2.03E-09	6.25E-11	0.00E+00	2.09E-09	7.69E-10	2.02E-11	0.00E+00	7.89E-10
5695	457493.4	3768672	6.906E-09	3.54E-10	0.00E+00	7.26E-09	6.91E-09	3.54E-10	0.00E+00	7.26E-09	2.07E-09	6.37E-11	0.00E+00	2.13E-09	7.84E-10	2.06E-11	0.00E+00	8.04E-10
5696	457503.3	3768672	7.039E-09	3.61E-10	0.00E+00	7.40E-09	7.04E-09	3.61E-10	0.00E+00	7.40E-09	2.11E-09	6.49E-11	0.00E+00	2.17E-09	7.99E-10	2.09E-11	0.00E+00	8.20E-10
5697	457513.3	3768672	7.171E-09	3.68E-10	0.00E+00	7.54E-09	7.17E-09	3.68E-10	0.00E+00	7.54E-09	2.15E-09	6.61E-11	0.00E+00	2.21E-09	8.14E-10	2.13E-11	0.00E+00	8.35E-10
5698	457523.3	3768672	7.296E-09	3.74E-10	0.00E+00	7.67E-09	7.30E-09	3.74E-10	0.00E+00	7.67E-09	2.19E-09	6.73E-11	0.00E+00	2.25E-09	8.28E-10	2.17E-11	0.00E+00	8.50E-10
5699	457533.3	3768672	7.426E-09	3.81E-10	0.00E+00	7.81E-09	7.43E-09	3.81E-10	0.00E+00	7.81E-09	2.22E-09	6.85E-11	0.00E+00	2.29E-09	8.43E-10	2.21E-11	0.00E+00	8.65E-10
5700	457543.2	3768672	7.568E-09	3.88E-10	0.00E+00	7.96E-09	7.57E-09	3.88E-10	0.00E+00	7.96E-09	2.27E-09	6.98E-11	0.00E+00	2.34E-09	8.59E-10	2.25E-11	0.00E+00	8.81E-10
5701	457553.2	3768672	7.729E-09	3.96E-10	0.00E+00	8.13E-09	7.73E-09	3.96E-10	0.00E+00	8.13E-09	2.31E-09	7.12E-11	0.00E+00	2.39E-09	8.77E-10	2.30E-11	0.00E+00	9.00E-10
5702	457563.2	3768672	7.898E-09	4.05E-10	0.00E+00	8.30E-09	7.90E-09	4.05E-10	0.00E+00	8.30E-09	2.37E-09	7.28E-11	0.00E+00	2.44E-09	8.96E-10	2.35E-11	0.00E+00	9.20E-10
5703	457573.1	3768672	8.076E-09	4.14E-10	0.00E+00	8.49E-09	8.08E-09	4.14E-10	0.00E+00	8.49E-09	2.42E-09	7.44E-11	0.00E+00	2.49E-09	9.16E-10	2.40E-11	0.00E+00	9.40E-10
5704	457583.1	3768672	8.266E-09	4.24E-10	0.00E+00	8.69E-09	8.27E-09	4.24E-10	0.00E+00	8.69E-09	2.48E-09	7.62E-11	0.00E+00	2.55E-09	9.38E-10	2.46E-11	0.00E+00	9.62E-10
5705	457593.1	3768672	8.464E-09	4.34E-10	0.00E+00	8.90E-09	8.46E-09	4.34E-10	0.00E+00	8.90E-09	2.54E-09	7.80E-11	0.00E+00	2.61E-09	9.60E-10	2.52E-11	0.00E+00	9.86E-10
5706	457603	3768672	8.672E-09	4.45E-10	0.00E+00	9.12E-09	8.67E-09	4.45E-10	0.00E+00	9.12E-09	2.60E-09	7.99E-11	0.00E+00	2.68E-09	9.84E-10	2.58E-11	0.00E+00	1.01E-09
5707	457613	3768672	8.888E-09	4.56E-10	0.00E+00	9.34E-09	8.89E-09	4.56E-10	0.00E+00	9.34E-09	2.66E-09	8.19E-11	0.00E+00	2.74E-09	1.01E-09	2.64E-11	0.00E+00	1.03E-09
5708	457623	3768672	9.113E-09	4.67E-10	0.00E+00	9.58E-09	9.11E-09	4.67E-10	0.00E+00	9.58E-09	2.73E-09	8.40E-11	0.00E+00	2.81E-09	1.03E-09	2.71E-11	0.00E+00	1.06E-09
5709	457633	3768672	9.333E-09	4.78E-10	0.00E+00	9.81E-09	9.33E-09	4.78E-10	0.00E+00	9.81E-09	2.80E-09	8.60E-11	0.00E+00	2.88E-09	1.06E-09	2.78E-11	0.00E+00	1.09E-09

5710	457642.9	3768672	9.535E-09	4.89E-10	0.00E+00	1.00E-08	9.53E-09	4.89E-10	0.00E+00	1.00E-08	2.86E-09	8.79E-11	0.00E+00	2.94E-09	1.08E-09	2.84E-11	0.00E+00	1.11E-09
5711	457652.9	3768672	9.742E-09	4.99E-10	0.00E+00	1.02E-08	9.74E-09	4.99E-10	0.00E+00	1.02E-08	2.92E-09	8.98E-11	0.00E+00	3.01E-09	1.11E-09	2.90E-11	0.00E+00	1.13E-09
5712	457662.9	3768672	9.969E-09	5.11E-10	0.00E+00	1.05E-08	9.97E-09	5.11E-10	0.00E+00	1.05E-08	2.99E-09	9.19E-11	0.00E+00	3.08E-09	1.13E-09	2.97E-11	0.00E+00	1.16E-09
5713	457672.8	3768672	1.023E-08	5.24E-10	0.00E+00	1.07E-08	1.02E-08	5.24E-10	0.00E+00	1.07E-08	3.06E-09	9.43E-11	0.00E+00	3.16E-09	1.16E-09	3.04E-11	0.00E+00	1.19E-09
5714	457682.8	3768672	1.049E-08	5.38E-10	0.00E+00	1.10E-08	1.05E-08	5.38E-10	0.00E+00	1.10E-08	3.14E-09	9.67E-11	0.00E+00	3.24E-09	1.19E-09	3.12E-11	0.00E+00	1.22E-09
5715	457692.8	3768672	1.076E-08	5.52E-10	0.00E+00	1.13E-08	1.08E-08	5.52E-10	0.00E+00	1.13E-08	3.22E-09	9.92E-11	0.00E+00	3.32E-09	1.22E-09	3.20E-11	0.00E+00	1.25E-09
5716	457702.8	3768672	1.105E-08	5.66E-10	0.00E+00	1.16E-08	1.10E-08	5.66E-10	0.00E+00	1.16E-08	3.31E-09	1.02E-10	0.00E+00	3.41E-09	1.25E-09	3.29E-11	0.00E+00	1.29E-09
5717	457296.5	3768701	4.866E-09	2.49E-10	0.00E+00	5.12E-09	4.87E-09	2.49E-10	0.00E+00	5.12E-09	1.46E-09	4.49E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.67E-10
5718	457287.3	3768697	4.862E-09	2.49E-10	0.00E+00	5.11E-09	4.86E-09	2.49E-10	0.00E+00	5.11E-09	1.46E-09	4.48E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.66E-10
5719	457278.2	3768693	4.857E-09	2.49E-10	0.00E+00	5.11E-09	4.86E-09	2.49E-10	0.00E+00	5.11E-09	1.45E-09	4.48E-11	0.00E+00	1.50E-09	5.51E-10	1.45E-11	0.00E+00	5.66E-10
5720	457269	3768690	4.853E-09	2.49E-10	0.00E+00	5.10E-09	4.85E-09	2.49E-10	0.00E+00	5.10E-09	1.45E-09	4.47E-11	0.00E+00	1.50E-09	5.51E-10	1.44E-11	0.00E+00	5.65E-10
5721	457259.9	3768686	4.848E-09	2.49E-10	0.00E+00	5.10E-09	4.85E-09	2.49E-10	0.00E+00	5.10E-09	1.45E-09	4.47E-11	0.00E+00	1.50E-09	5.50E-10	1.44E-11	0.00E+00	5.64E-10
5722	457250.8	3768682	4.843E-09	2.48E-10	0.00E+00	5.09E-09	4.84E-09	2.48E-10	0.00E+00	5.09E-09	1.45E-09	4.46E-11	0.00E+00	1.50E-09	5.49E-10	1.44E-11	0.00E+00	5.64E-10
5723	457241.6	3768678	4.837E-09	2.48E-10	0.00E+00	5.09E-09	4.84E-09	2.48E-10	0.00E+00	5.09E-09	1.45E-09	4.46E-11	0.00E+00	1.49E-09	5.49E-10	1.44E-11	0.00E+00	5.63E-10
5724	457232.5	3768675	4.832E-09	2.48E-10	0.00E+00	5.08E-09	4.83E-09	2.48E-10	0.00E+00	5.08E-09	1.45E-09	4.45E-11	0.00E+00	1.49E-09	5.48E-10	1.44E-11	0.00E+00	5.63E-10
5725	457223.3	3768671	4.826E-09	2.47E-10	0.00E+00	5.07E-09	4.83E-09	2.47E-10	0.00E+00	5.07E-09	1.45E-09	4.45E-11	0.00E+00	1.49E-09	5.47E-10	1.44E-11	0.00E+00	5.62E-10
5726	457214.2	3768667	4.819E-09	2.47E-10	0.00E+00	5.07E-09	4.82E-09	2.47E-10	0.00E+00	5.07E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.47E-10	1.43E-11	0.00E+00	5.61E-10
5727	457205.1	3768663	4.812E-09	2.47E-10	0.00E+00	5.06E-09	4.81E-09	2.47E-10	0.00E+00	5.06E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.46E-10	1.43E-11	0.00E+00	5.60E-10
5728	457195.9	3768659	4.804E-09	2.46E-10	0.00E+00	5.05E-09	4.80E-09	2.46E-10	0.00E+00	5.05E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.45E-10	1.43E-11	0.00E+00	5.59E-10
5729	457186.8	3768656	4.795E-09	2.46E-10	0.00E+00	5.04E-09	4.79E-09	2.46E-10	0.00E+00	5.04E-09	1.44E-09	4.42E-11	0.00E+00	1.48E-09	5.44E-10	1.43E-11	0.00E+00	5.58E-10
5730	457177.6	3768652	4.784E-09	2.45E-10	0.00E+00	5.03E-09	4.78E-09	2.45E-10	0.00E+00	5.03E-09	1.43E-09	4.41E-11	0.00E+00	1.48E-09	5.43E-10	1.42E-11	0.00E+00	5.57E-10
5731	457168.5	3768648	4.772E-09	2.45E-10	0.00E+00	5.02E-09	4.77E-09	2.45E-10	0.00E+00	5.02E-09	1.43E-09	4.40E-11	0.00E+00	1.47E-09	5.41E-10	1.42E-11	0.00E+00	5.56E-10
5732	457159.3	3768644	4.76E-09	2.44E-10	0.00E+00	5.00E-09	4.76E-09	2.44E-10	0.00E+00	5.00E-09	1.43E-09	4.39E-11	0.00E+00	1.47E-09	5.40E-10	1.42E-11	0.00E+00	5.54E-10
5733	457150.2	3768641	4.746E-09	2.43E-10	0.00E+00	4.99E-09	4.75E-09	2.43E-10	0.00E+00	4.99E-09	1.42E-09	4.37E-11	0.00E+00	1.47E-09	5.38E-10	1.41E-11	0.00E+00	5.53E-10
5734	457141.1	3768637	4.731E-09	2.43E-10	0.00E+00	4.97E-09	4.73E-09	2.43E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.37E-10	1.41E-11	0.00E+00	5.51E-10
5735	457131.9	3768633	4.715E-09	2.42E-10	0.00E+00	4.96E-09	4.71E-09	2.42E-10	0.00E+00	4.96E-09	1.41E-09	4.35E-11	0.00E+00	1.46E-09	5.35E-10	1.40E-11	0.00E+00	5.49E-10
5736	457122.8	3768629	4.698E-09	2.41E-10	0.00E+00	4.94E-09	4.70E-09	2.41E-10	0.00E+00	4.94E-09	1.41E-09	4.33E-11	0.00E+00	1.45E-09	5.33E-10	1.40E-11	0.00E+00	5.47E-10
5737	457113.6	3768626	4.679E-09	2.40E-10	0.00E+00	4.92E-09	4.68E-09	2.40E-10	0.00E+00	4.92E-09	1.40E-09	4.31E-11	0.00E+00	1.44E-09	5.31E-10	1.39E-11	0.00E+00	5.45E-10
5738	457104.5	3768622	4.66E-09	2.39E-10	0.00E+00	4.90E-09	4.66E-09	2.39E-10	0.00E+00	4.90E-09	1.40E-09	4.30E-11	0.00E+00	1.44E-09	5.29E-10	1.39E-11	0.00E+00	5.43E-10
5739	457095.4	3768618	4.639E-09	2.38E-10	0.00E+00	4.88E-09	4.64E-09	2.38E-10	0.00E+00	4.88E-09	1.39E-09	4.28E-11	0.00E+00	1.43E-09	5.26E-10	1.38E-11	0.00E+00	5.40E-10
5740	457086.2	3768614	4.619E-09	2.37E-10	0.00E+00	4.86E-09	4.62E-09	2.37E-10	0.00E+00	4.86E-09	1.38E-09	4.26E-11	0.00E+00	1.43E-09	5.24E-10	1.37E-11	0.00E+00	5.38E-10
5741	457077.1	3768611	4.597E-09	2.36E-10	0.00E+00	4.83E-09	4.60E-09	2.36E-10	0.00E+00	4.83E-09	1.38E-09	4.24E-11	0.00E+00	1.42E-09	5.22E-10	1.37E-11	0.00E+00	5.35E-10
5742	457067.9	3768607	4.575E-09	2.35E-10	0.00E+00	4.81E-09	4.58E-09	2.35E-10	0.00E+00	4.81E-09	1.37E-09	4.22E-11	0.00E+00	1.41E-09	5.19E-10	1.36E-11	0.00E+00	5.33E-10
5743	457058.8	3768603	4.552E-09	2.33E-10	0.00E+00	4.78E-09	4.55E-09	2.33E-10	0.00E+00	4.78E-09	1.36E-09	4.20E-11	0.00E+00	1.41E-09	5.16E-10	1.35E-11	0.00E+00	5.30E-10
5744	457049.6	3768599	4.526E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.17E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.27E-10
5745	457040.5	3768596	4.5E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.11E-10	1.34E-11	0.00E+00	5.24E-10
5746	457031.4	3768592	4.473E-09	2.29E-10	0.00E+00	4.70E-09	4.47E-09	2.29E-10	0.00E+00	4.70E-09	1.34E-09	4.12E-11	0.00E+00	1.38E-09	5.08E-10	1.33E-11	0.00E+00	5.21E-10
5747	457022.2	3768588	4.447E-09	2.28E-10	0.00E+00	4.67E-09	4.45E-09	2.28E-10	0.00E+00	4.67E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.04E-10	1.32E-11	0.00E+00	5.18E-10
5748	457013.1	3768584	4.42E-09	2.27E-10	0.00E+00	4.65E-09	4.42E-09	2.27E-10	0.00E+00	4.65E-09	1.32E-09	4.07E-11	0.00E+00	1.36E-09	5.01E-10	1.32E-11	0.00E+00	5.15E-10
5749	457003.9	3768580	4.392E-09	2.25E-10	0.00E+00	4.62E-09	4.39E-09	2.25E-10	0.00E+00	4.62E-09	1.32E-09	4.05E-11	0.00E+00	1.36E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
5750	456994.8	3768577	4.363E-09	2.24E-10	0.00E+00	4.59E-09	4.36E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
5751	456981.8	3768564	4.389E-09	2.25E-10	0.00E+00	4.61E-09	4.39E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.05E-11	0.00E+00	1.36E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
5752	456978	3768555	4.446E-09	2.28E-10	0.00E+00	4.67E-09	4.45E-09	2.28E-10	0.00E+00	4.67E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.04E-10	1.32E-11	0.00E+00	5.18E-10
5753	456974.1	3768546	4.504E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.11E-10	1.34E-11	0.00E+00	5.24E-10
5754	456970.3	3768537	4.562E-09	2.34E-10	0.00E+00	4.80E-09	4.56E-09	2.34E-10	0.00E+00	4.80E-09	1.37E-09	4.21E-11	0.00E+00	1.41E-09	5.18E-10	1.36E-11	0.00E+00	5.31E-10
5755	456966.5	3768527	4.622E-09	2.37E-10	0.00E+00	4.86E-09	4.62E-09	2.37E-10	0.00E+00	4.86E-09	1.38E-09	4.26E-11	0.00E+00	1.43E-09	5.24E-10	1.38E-11	0.00E+00	5.38E-10
5756	456962.6	3768518	4.682E-09	2.40E-10	0.00E+00	4.92E-09	4.68E-09	2.40E-10	0.00E+00	4.92E-09	1.40E-09	4.32E-11	0.00E+00	1.45E-09	5.31E-10	1.39E-11	0.00E+00	5.45E-10
5757	456958.8	3768509	4.743E-09	2.43E-10	0.00E+00	4.99E-09	4.74E-09	2.43E-10	0.00E+00	4.99E-09	1.42E-09	4.37E-11	0.00E+00	1.46E-09	5.38E-10	1.41E-11	0.00E+00	5.52E-10
5758	456955	3768500	4.805E-09	2.46E-10	0.00E+00	5.05E-09	4.80E-09	2.46E-10	0.00E+00	5.05E-09	1.44E-09	4.43E-11	0.00E+00	1.48E-09	5.45E-10	1.43E-11	0.00E+00	5.59E-10
5759	456951.1	3768491	4.868E-09	2.50E-10	0.00E+00	5.12E-09	4.87E-09	2.50E-10	0.00E+00	5.12E-09	1.46E-09	4.49E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.67E-10
5760	456947.3	3768482	4.932E-09	2.53E-10	0.00E+00	5.18E-09	4.93E-09	2.53E-10	0.00E+00	5.18E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.74E-10
5761	456943.5	3768473	4.997E-09	2.56E-10	0.00E+00	5.25E-09	5.00E-09	2.56E-10	0.00E+00	5.25E-09	1.50E-09	4.61E-11	0.00E+00	1.54E-09	5.67E-10	1.49E-11	0.00E+00	5.82E-10
5762	456939.6	3768464	5.063E-09	2.60E-10	0.00E+00	5.32E-09	5.06E-09	2.60E-10	0.00E+00	5.32E-09	1.52E-09	4.67E-11	0.00E+00	1.56E-09	5.74E-10	1.51E-11	0.00E+00	5.89E-10
5763	456935.8	3768455	5.13E-09	2.63E-10	0.00E+00	5.39E-09	5.13E-09	2.63E-10	0.00E+00	5.39E-09	1.54E-09	4.73E-11	0.00E+00	1.58E-09	5.82E-10	1.53E-11	0.00E+00	5.97E-10
5764	456901.2	3768373	5.78E-09	2.96E-10	0.00E+00	6.08E-09	5.78E-09	2.96E-10	0.00E+00	6.08E-09	1.73E-09	5.33E-11	0.00E+00	1.78E-09	6.56E-10	1.72E-11	0.00E+00	6.73E-10
5765	456897.4	3768363	5.858E-09	3.00E-10	0.00E+00	6.16E-09	5.86E-09	3.00E-10	0.00E+00	6.16E-09	1.75E-09	5.40E-11	0.00E+00	1.81E-09	6.65E-10	1.74E-11	0.00E+00	6.82E-10
5766	456893.6	3768354	5.936E-09	3.04E-10	0.00E+00	6.24E-09	5.94E-09	3.04E-10	0.00E+00	6.24E-09	1.78E-09	5.47E-11	0.00E+00	1.83E-09	6.73E-10	1.77E-11	0.00E+00	6.91E-10
5767	456889.7	3768345	6.015E-09	3.08E-10	0.00E+00	6.32E-09	6.02E-09	3.08E-10	0.00E+00	6.32E-09	1.80E-09	5.55E-11	0.00E+00	1.86E-09	6.82E-10	1.79E-11	0.00E+00	7.00E-10
5768	456885.9	3768336	6.096E-09	3.13E-10	0.00E+00	6.41E-09	6.10E-09	3.13E-10	0.00E+00	6.41E-09	1.83E-09	5.62E-11	0.00E+00	1.88E-09	6.92E-10	1.81E-11	0.00E+00	7.10E-10
5769	456882.1	3768327	6.177E-09	3.17E-10	0.00E+00	6.49E-09	6.18E-09	3.17E-10	0.00E+00	6.49E-09	1.85E-09	5.69E-11	0.00E+00	1.91E-09	7.01E-10	1.84E-11	0.00E+00	7.19E-10
5770	456878.2	3768318	6.259E-09	3.21E-10	0.00E+00	6.58E-09	6.26E-09	3.21E-10	0.00E+00	6.58E-09	1.87E-09	5.77E-11	0.00E+00	1.93E-09	7.10E-10	1.86E-11	0.00E+00	7.29E-10
5771	456874.4	3768309	6.342E-09	3.25E-10	0.00E+00	6.67E-09	6.34E-09	3.25E-10	0.00E+00	6.67E-09	1.90E-09	5.85E-11	0.00E+00	1.96E-09	7.19E-10	1.89E-11	0.00E+00	7.38E-10
5772	456870.6	3768300	6.424E-09	3.29E-10	0.00E+00	6.75E-09	6.42E-09	3.29E-10	0.00E+00	6.75E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
5773	456866.7	3768291	6.507E-09	3.34E-10	0.00E+00	6.84E-09	6.51E-09	3.34E-10	0.00E+00	6.84E-09	1.95E-09	6.00E-11	0.00E+00	2.01E-09	7.38E-10	1.94E-11	0.00E+00	7.58E-10
5774	456862.9	3768281	6.59E-09	3.38E-10	0.00E+00	6.93E-09	6.59E-09	3.38E-10	0.00E+00	6.93E-09	1.97E-09	6.08E-11	0.00E+00	2.03E-09	7.48E-10	1.96E-11	0.00E+00	7.67E-10
5775	456859	3768272	6.675E-09	3.42E-10	0.00E+00	7.02E-09	6.68E-09	3.42E-10	0.00E+00	7.02E-09	2.00E-09	6.15E-11	0.00E+00	2.06E-09	7.57E-10	1.99E-11	0.00E+00	7.77E-10
5776	456855.2	3768263	6.76E-09	3.47E-10	0.00E+00	7.11E-09	6.76E-09	3.47E-10	0.00E+00	7.11E-09	2.02E-09	6.23E-11	0.00E+00	2.09E-09	7.67E-10	2.01E-11	0.00E+00	7.87E-10
5777	456851.4	3768254	6.845E-09	3.51E-10	0.00E+00	7.20E-09	6.85E-09	3.51E-10	0.00E+00	7.20E-09	2.05E-09	6.31E-11	0.00E+00	2.11E-09	7.77E-10	2.04E-11	0.00E+00	7.97E-10
5778	456847.5	3768245	6.93E-09	3.55E-10	0.00E+00	7.29E-09	6.93E-09	3.55E-10	0.00E+00	7.29E-09	2.08E-09	6.39E-11	0.00E+00	2.14E-09	7.86E-10	2.06E-11	0.00E+00	8.07E-10
5779	457333.9	3768712	4.824E-09	2.47E-10	0.00E+00	5.07E-09	4.82E-09	2.47E-10	0.00E+00	5.07E-09	1.44E-09	4.45E-11	0.00E+00	1.49E-09	5.47E-10	1.44E-11	0.00E+00	5.62E-10
5780	457343.8	3768712	4.881E-09	2.50E-10	0.00E+00	5.13E-09	4.88E-09	2.50E-10	0.00E+00	5.13E-09	1.46E-09	4.50E-11	0.00E+00	1.51E-09	5.54E-10	1.45E-11	0.00E+00	5.68E-10
5781	457353.8	3768712	4.939E-09	2.53E-10	0.00E+00	5.19E-09	4.94E-09	2.53E-10	0.00E+00	5.19E-09	1.48E-09	4.55E-11	0.00E+00	1.52E-09	5.60E-10	1.47E-11	0.00E+00	5.75E-10
5782	457363.8	3768712	4.999E-09	2.56E-10	0.00E+00	5.25E-09	5.00E-09	2.56E-10	0.00E+00	5.25E-09	1.50E-09	4.61E-11	0.00E+00	1.54E-09	5.67E-10	1.49E-11	0.00E+00	5.82E-10
5783	457373.8	3768712	5.06E-09	2.59E-10	0.00E+00	5.32E-09	5.06E-09	2.59E-10	0.00E+00	5.32E-09	1.52E-09	4.66E-11	0.00E+00	1.56E-09	5.74E-10	1.51E-11	0.00E+00	5.89E-10
5784	457383.7	3768712	5.124E-09	2.63E-10	0.00E+00	5.39E-09	5.12E-09	2.63E-10	0.00E+00	5.39E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.97E-10
5785	457393.7	3768712	5.19E-09	2.66E-10	0.00E+00	5.46E-09	5.19E-09	2.66E-10	0.00E+00	5.46E-09	1.55E-09	4.78E-11	0.00E+00	1.60E-09	5.89E-10	1.54E-11	0.00E+00	6.04E-10
5786	457403.7	3768712	5.259E-09	2.70E-10	0.00E+00	5.53E-09	5.26E-09	2.70E-10	0.00E+00	5.53E-09	1.58E-09	4.85E-11	0.00E+00	1.62E-09	5.97E-10	1.56E-11	0.00E+00	6.12E-10
5787	457413.6	3768712	5.33E-09	2.73E-10	0.00E+00	5.60E-09	5.33E-09	2.73E-10	0.00E+00	5.60E-09	1.60E-09	4.91E-11	0.00E+00	1.65E-09	6.05E-10	1.59E-11	0.00E+00	6.21E-10
5788	457423.6	3768712	5.402E-09	2.77E-10	0.00E+00	5.68E-09	5.40E-09	2.77E-10	0.00E+00	5.68E-09	1.62E-09	4.98E-11	0.00E+00	1.67E-09	6.13E-10	1.61E-11	0.00E+00	6.29E-10
5789	457433.6	3768712	5.477E-09	2.81E-10	0.00E+00	5.76E-09	5.48E-09	2.81E-10	0.00E+00	5.76E-09	1.64E-09	5.05E-11	0.00E+00	1.69E-09	6.21E-10	1.63E-11	0.00E+00	6.38E-10
5790	457443.5	3768712	5.554E-09	2.85E-10	0.00E+00	5.84E-09	5.55E-09	2.85E-10	0.00E+00	5.84E-09	1.66E-09	5.12E-11	0.00E+00	1.71E-09	6.30E-10	1.65E-11	0.00E+00	6.47E-10
5791	457453.5	3768712	5.632E-09	2.89E-10	0.00E+00	5.92E-09	5.63E-09	2.89E-10	0.00E+00	5.92E-09	1.69E-09	5.19E-11	0.00E+00	1.74E-09	6.39E-10	1.68E-11	0.00E+00	6.56E-10
5792	457463.5	3768712	5.707E-09	2.93E-10	0.00E+00	6.00E-09	5.71E-09	2.93E-10	0.00E+00	6.00E-09	1.71E-09	5.26E-11	0.00E+00	1.76E-09	6.47E-10	1.70E-11	0.00E+00	6.64E-10
5793	457473.5	3768712	5.784E-09	2.97E-10	0.00E+00	6.08E-09	5.78E-09	2.97E-10	0.00E+00	6.08E-09	1.73E-09	5.33E-11	0.00E+00	1.79E-09	6.56E-10	1.72E-11	0.00E+00	6.73E-10
5794	457483.4	3768712	5.868E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.83E-10
5795	457493.4	3768712	5.965E-09	3.06E-10	0.00E+00	6.27E-09	5.96E-09	3.06E-10	0.00E+00	6.27E-09	1.79E-09	5.50E-11	0.00E+00	1.84E-09	6.77E-10	1.77E-11	0.00E+00	6.94E-10
5796	457503.4	3768712	6.066E-09	3.11E-10	0.00E+00	6.38E-09	6.07E-09	3.11E-10	0.00E+00	6.38E-09	1.82E-09	5.59E-11	0.00E+00	1.87E-09	6.88E-10	1.81E-11	0.00E+00	7.06E-10
5797	457513.3	3768712	6.172E-09	3.16E-10	0.00E+00	6.49E-09	6.17E-09	3.16E-10	0.00E+00	6.49E-09	1.85E-09	5.69E-11	0.00E+00	1.91E-09	7.00E-10	1.84E-11	0.00E+00	7.19E-10
5798	457523.3	3768712	6.283E-09	3.22E-10	0.00E+00	6.60E-09	6.28E-09	3.22E-10	0.00E+00	6.60E-09	1.88E-09	5.79E-11	0.00E+00	1.94E-09	7.13E-10	1.87E-11	0.00E+00	7.32E-10
5799	457533.3	3768712	6.399E-09	3.28E-10	0.00E+00	6.73E-09	6.40E-09	3.28E-10	0.00E+00	6.73E-09	1.92E-09	5.90E-11	0.00E+00	1.98E-09	7.26E-10	1.90E-11	0.00E+00	7.45E-10
5800	457543.2	3768712	6.519E-09	3.34E-10	0.00E+00	6.85E-09	6.52E-09	3.34E-10	0.00E+00	6.85E-09	1.95E-09	6.01E-11	0.00E+00	2.01E-09	7.40E-10	1.94E-11	0.00E+00	7.59E-10
5801	457553.2	3768712	6.641E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.98E-11	0.00E+00	7.73E-10
5802	457563.2	3768712	6.77E-09	3.47E-10	0.00E+00	7.12E-09	6.77E-09	3.47E-10	0.00E+00	7.12E-09	2.03E-09	6.24E-11	0.00E+00	2.09E-09	7.68E-10	2.01E-11	0.00E+00	7.88E-10
5803	457573.2	3768712	6.906E-09	3.54E-10	0.00E+00	7.26E-09	6.91E-09	3.54E-10	0.00E+00	7.26E-09	2.07E-09	6.37E-11	0.00E+00	2.13E-09	7.84E-10	2.06E-11	0.00E+00	8.04E-10
5804	457583.1	3768712	7.052E-09	3.62E-10	0.00E+00	7.41E-09	7.05E-09	3.62E-10	0.00E+00	7.41E-09	2.11E-09	6.50E-11	0.00E+00	2.18E-09	8.00E-10	2.10E-11	0.00E+00	8.21E-10
5805	457593.1	3768712	7.204E-09	3.69E-10	0.00E+00	7.57E-09	7.20E-09	3.69E-10	0.00E+00	7.57E-09	2.16E-09	6.64E-11	0.00E+00	2.22E-09	8.17E-10	2.14E-11	0.00E+00	8.39E-10
5806	457603.1	3768712	7.354E-09	3.77E-10	0.00E+00	7.73E-09	7.35E-09	3.77E-10	0.00E+00	7.73E-09	2.20E-09	6.78E-11	0.00E+00	2.27E-09	8.34E-10	2.19E-11	0.00E+00	8.56E-10
5807	457613	3768712	7.492E-09	3.84E-10	0.00E+00	7.88E-09	7.49E-09	3.84E-10	0.00E+00	7.88E-09	2.24E-09	6.91E-11	0.00E+00	2.31E-09	8.50E-10	2.23E-11	0.00E+00	8.72E-10
5808	457623	3768712	7.636E-09	3.91E-10	0.00E+00	8.03E-09	7.64E-09	3.91E-10	0.00E+00	8.03E-09	2.29E-09	7.04E-11	0.00E+00	2.36E-09	8.66E-10	2.27E-11	0.00E+00	8.89E-10
5809	457633	3768712	7.794E-09	4.00E-10	0.00E+00	8.19E-09	7.79E-09	4.00E-10	0.00E+00	8.19E-09	2.33E-09	7.18E-11	0.00E+00	2.41E-09	8.84E-10	2.32E-11	0.00E+00	9.07E-10
5810	457642.9	3768712	7.977E-09	4.09E-10	0.00E+00	8.39E-09	7.98E-09	4.09E-10	0.00E+00	8.39E-09	2.39E-09	7.35E-11	0.00E+00	2.46E-09	9.05E-10	2.37E-11	0.00E+00	9.29E-10
5811	457652.9	3768712	8.168E-09	4.19E-10	0.00E+00	8.59E-09	8.17E-09	4.19E-10	0.00E+00	8.59E-09	2.45E-09	7.53E-11	0.00E+00	2.52E-09	9.27E-10	2.43E-11	0.00E+00	9.51E-10
5812	457662.9	3768712	8.365E-09	4.29E-10	0.00E+00	8.79E-09	8.36E-09	4.29E-10	0.00E+00	8.79E-09	2.51E-09	7.71E-11	0.00E+00	2.58E-09	9.49E-10	2.49E-11	0.00E+00	9.74E-10
5813	457672.9	3768712	8.57E-09	4.39E-10	0.00E+00	9.01E-09	8.57E-09	4.39E-10	0.00E+00	9.01E-09	2.57E-09	7.90E-11	0.00E+00	2.65E-09	9.72E-10	2.55E-11	0.00E+00	9.98E-10
5814	457682.8	3768712	8.781E-09	4.50E-10	0.00E+00	9.23E-09	8.78E-09	4.50E-10	0.00E+00	9.23E-09	2.63E-09	8.09E-11	0.00E+00	2.71E-09	9.96E-10	2.61E-11	0.00E+00	1.02E-09
5815	457692.8	3768712	8.996E-09	4.61E-10	0.00E+00	9.46E-09	9.00E-09	4.61E-10	0.00E+00	9.46E-09	2.69E-09	8.29E-11	0.00E+00	2.78E-09	1.02E-09	2.68E-11	0.00E+00	1.05E-09
5816	457702.8	3768712	9.213E-09	4.72E-10	0.00E+00	9.68E-09	9.21E-09	4.72E-10	0.00E+00	9.68E-09	2.76E-09	8.49E-11	0.00E+00	2.84E-09	1.05E-09	2.74E-11	0.00E+00	1.07E-09
5817	457296.4	3768741	4.288E-09	2.20E-10	0.00E+00	4.51E-09	4.29E-09	2.20E-10	0.00E+00	4.51E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.86E-10	1.28E-11	0.00E+00	4.99E-10
5818	457287.3	3768737	4.289E-09	2.20E-10	0.00E+00	4.51E-09	4.29E-09	2.20E-10	0.00E+00	4.51E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.87E-10	1.28E-11	0.00E+00	4.99E-10
5819	457278.1	3768733	4.292E-09	2.20E-10	0.00E+00	4.51E-09	4.29E-09	2.20E-10	0.00E+00	4.51E-09	1.29E-09	3.96E-11	0.00E+00	1.33E-09	4.87E-10	1.28E-11	0.00E+00	5.00E-10
5820	457269	3768730	4.296E-09	2.20E-10	0.00E+00	4.52E-09	4.30E-09	2.20E-10	0.00E+00	4.52E-09	1.29E-09	3.96E-11	0.00E+00	1.33E-09	4.87E-10	1.28E-11	0.00E+00	5.00E-10
5821	457259.8	3768726	4.302E-09	2.21E-10	0.00E+00	4.52E-09	4.30E-09	2.21E-10	0.00E+00	4.52E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.88E-10	1.28E-11	0.00E+00	5.01E-10

5822	457250.6	3768722	4.306E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.01E-10
5823	457241.5	3768718	4.308E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
5824	457232.3	3768714	4.357E-09	2.23E-10	0.00E+00	4.58E-09	4.36E-09	2.23E-10	0.00E+00	4.58E-09	1.30E-09	4.02E-11	0.00E+00	1.34E-09	4.94E-10	1.30E-11	0.00E+00	5.07E-10
5825	457223.1	3768711	4.353E-09	2.23E-10	0.00E+00	4.58E-09	4.35E-09	2.23E-10	0.00E+00	4.58E-09	1.30E-09	4.01E-11	0.00E+00	1.34E-09	4.94E-10	1.30E-11	0.00E+00	5.07E-10
5826	457214	3768707	4.348E-09	2.23E-10	0.00E+00	4.57E-09	4.35E-09	2.23E-10	0.00E+00	4.57E-09	1.30E-09	4.01E-11	0.00E+00	1.34E-09	4.93E-10	1.29E-11	0.00E+00	5.06E-10
5827	457204.8	3768703	4.343E-09	2.23E-10	0.00E+00	4.57E-09	4.34E-09	2.23E-10	0.00E+00	4.57E-09	1.30E-09	4.00E-11	0.00E+00	1.34E-09	4.93E-10	1.29E-11	0.00E+00	5.06E-10
5828	457195.7	3768699	4.338E-09	2.22E-10	0.00E+00	4.56E-09	4.34E-09	2.22E-10	0.00E+00	4.56E-09	1.30E-09	4.00E-11	0.00E+00	1.34E-09	4.92E-10	1.29E-11	0.00E+00	5.05E-10
5829	457186.5	3768696	4.333E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.92E-10	1.29E-11	0.00E+00	5.04E-10
5830	457177.3	3768692	4.327E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.91E-10	1.29E-11	0.00E+00	5.04E-10
5831	457168.2	3768688	4.32E-09	2.21E-10	0.00E+00	4.54E-09	4.32E-09	2.21E-10	0.00E+00	4.54E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.90E-10	1.29E-11	0.00E+00	5.03E-10
5832	457159	3768684	4.312E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
5833	457149.9	3768681	4.303E-09	2.21E-10	0.00E+00	4.52E-09	4.30E-09	2.21E-10	0.00E+00	4.52E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.88E-10	1.28E-11	0.00E+00	5.01E-10
5834	457140.7	3768677	4.293E-09	2.20E-10	0.00E+00	4.51E-09	4.29E-09	2.20E-10	0.00E+00	4.51E-09	1.29E-09	3.96E-11	0.00E+00	1.33E-09	4.87E-10	1.28E-11	0.00E+00	5.00E-10
5835	457131.5	3768673	4.281E-09	2.19E-10	0.00E+00	4.50E-09	4.28E-09	2.19E-10	0.00E+00	4.50E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.86E-10	1.27E-11	0.00E+00	4.98E-10
5836	457122.4	3768669	4.269E-09	2.19E-10	0.00E+00	4.49E-09	4.27E-09	2.19E-10	0.00E+00	4.49E-09	1.28E-09	3.94E-11	0.00E+00	1.32E-09	4.84E-10	1.27E-11	0.00E+00	4.97E-10
5837	457113.2	3768665	4.256E-09	2.18E-10	0.00E+00	4.47E-09	4.26E-09	2.18E-10	0.00E+00	4.47E-09	1.27E-09	3.92E-11	0.00E+00	1.31E-09	4.83E-10	1.27E-11	0.00E+00	4.96E-10
5838	457104.1	3768662	4.242E-09	2.17E-10	0.00E+00	4.46E-09	4.24E-09	2.17E-10	0.00E+00	4.46E-09	1.27E-09	3.91E-11	0.00E+00	1.31E-09	4.81E-10	1.26E-11	0.00E+00	4.94E-10
5839	457094.9	3768658	4.227E-09	2.17E-10	0.00E+00	4.44E-09	4.23E-09	2.17E-10	0.00E+00	4.44E-09	1.27E-09	3.90E-11	0.00E+00	1.31E-09	4.80E-10	1.26E-11	0.00E+00	4.92E-10
5840	457085.7	3768654	4.212E-09	2.16E-10	0.00E+00	4.43E-09	4.21E-09	2.16E-10	0.00E+00	4.43E-09	1.26E-09	3.88E-11	0.00E+00	1.30E-09	4.78E-10	1.25E-11	0.00E+00	4.90E-10
5841	457076.6	3768650	4.196E-09	2.15E-10	0.00E+00	4.41E-09	4.20E-09	2.15E-10	0.00E+00	4.41E-09	1.26E-09	3.87E-11	0.00E+00	1.30E-09	4.76E-10	1.25E-11	0.00E+00	4.89E-10
5842	457067.4	3768647	4.179E-09	2.14E-10	0.00E+00	4.39E-09	4.18E-09	2.14E-10	0.00E+00	4.39E-09	1.25E-09	3.85E-11	0.00E+00	1.29E-09	4.74E-10	1.24E-11	0.00E+00	4.87E-10
5843	457058.3	3768643	4.161E-09	2.13E-10	0.00E+00	4.37E-09	4.16E-09	2.13E-10	0.00E+00	4.37E-09	1.25E-09	3.84E-11	0.00E+00	1.28E-09	4.72E-10	1.24E-11	0.00E+00	4.85E-10
5844	457049.1	3768639	4.142E-09	2.12E-10	0.00E+00	4.35E-09	4.14E-09	2.12E-10	0.00E+00	4.35E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.82E-10
5845	457039.9	3768635	4.122E-09	2.11E-10	0.00E+00	4.33E-09	4.12E-09	2.11E-10	0.00E+00	4.33E-09	1.23E-09	3.80E-11	0.00E+00	1.27E-09	4.68E-10	1.23E-11	0.00E+00	4.80E-10
5846	457030.8	3768632	4.101E-09	2.10E-10	0.00E+00	4.31E-09	4.10E-09	2.10E-10	0.00E+00	4.31E-09	1.23E-09	3.78E-11	0.00E+00	1.27E-09	4.65E-10	1.22E-11	0.00E+00	4.77E-10
5847	457021.6	3768628	4.08E-09	2.09E-10	0.00E+00	4.29E-09	4.08E-09	2.09E-10	0.00E+00	4.29E-09	1.22E-09	3.76E-11	0.00E+00	1.26E-09	4.63E-10	1.21E-11	0.00E+00	4.75E-10
5848	457012.5	3768624	4.058E-09	2.08E-10	0.00E+00	4.27E-09	4.06E-09	2.08E-10	0.00E+00	4.27E-09	1.22E-09	3.74E-11	0.00E+00	1.25E-09	4.60E-10	1.21E-11	0.00E+00	4.72E-10
5849	457003.3	3768620	4.036E-09	2.07E-10	0.00E+00	4.24E-09	4.04E-09	2.07E-10	0.00E+00	4.24E-09	1.21E-09	3.72E-11	0.00E+00	1.25E-09	4.58E-10	1.20E-11	0.00E+00	4.70E-10
5850	456994.1	3768616	4.012E-09	2.06E-10	0.00E+00	4.22E-09	4.01E-09	2.06E-10	0.00E+00	4.22E-09	1.20E-09	3.70E-11	0.00E+00	1.24E-09	4.55E-10	1.19E-11	0.00E+00	4.67E-10
5851	456985	3768613	3.988E-09	2.04E-10	0.00E+00	4.19E-09	3.99E-09	2.04E-10	0.00E+00	4.19E-09	1.19E-09	3.68E-11	0.00E+00	1.23E-09	4.52E-10	1.19E-11	0.00E+00	4.64E-10
5852	456975.8	3768609	3.963E-09	2.03E-10	0.00E+00	4.17E-09	3.96E-09	2.03E-10	0.00E+00	4.17E-09	1.19E-09	3.65E-11	0.00E+00	1.22E-09	4.50E-10	1.18E-11	0.00E+00	4.61E-10
5853	456966.6	3768605	3.938E-09	2.02E-10	0.00E+00	4.14E-09	3.94E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.59E-10
5854	456953.6	3768592	3.96E-09	2.03E-10	0.00E+00	4.16E-09	3.96E-09	2.03E-10	0.00E+00	4.16E-09	1.19E-09	3.65E-11	0.00E+00	1.22E-09	4.49E-10	1.18E-11	0.00E+00	4.61E-10
5855	456949.8	3768583	4.008E-09	2.05E-10	0.00E+00	4.21E-09	4.01E-09	2.05E-10	0.00E+00	4.21E-09	1.20E-09	3.69E-11	0.00E+00	1.24E-09	4.55E-10	1.19E-11	0.00E+00	4.67E-10
5856	456946	3768574	4.056E-09	2.08E-10	0.00E+00	4.26E-09	4.06E-09	2.08E-10	0.00E+00	4.26E-09	1.21E-09	3.74E-11	0.00E+00	1.25E-09	4.60E-10	1.21E-11	0.00E+00	4.72E-10
5857	456942.1	3768565	4.105E-09	2.10E-10	0.00E+00	4.32E-09	4.11E-09	2.10E-10	0.00E+00	4.32E-09	1.23E-09	3.78E-11	0.00E+00	1.27E-09	4.66E-10	1.22E-11	0.00E+00	4.78E-10
5858	456938.3	3768556	4.155E-09	2.13E-10	0.00E+00	4.37E-09	4.15E-09	2.13E-10	0.00E+00	4.37E-09	1.24E-09	3.83E-11	0.00E+00	1.28E-09	4.71E-10	1.24E-11	0.00E+00	4.84E-10
5859	456934.4	3768547	4.206E-09	2.16E-10	0.00E+00	4.42E-09	4.21E-09	2.16E-10	0.00E+00	4.42E-09	1.26E-09	3.88E-11	0.00E+00	1.30E-09	4.77E-10	1.25E-11	0.00E+00	4.90E-10
5860	456930.6	3768537	4.258E-09	2.18E-10	0.00E+00	4.48E-09	4.26E-09	2.18E-10	0.00E+00	4.48E-09	1.28E-09	3.92E-11	0.00E+00	1.31E-09	4.83E-10	1.27E-11	0.00E+00	4.96E-10
5861	456926.7	3768528	4.31E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
5862	456922.9	3768519	4.362E-09	2.24E-10	0.00E+00	4.59E-09	4.36E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
5863	456896	3768455	4.752E-09	2.44E-10	0.00E+00	5.00E-09	4.75E-09	2.44E-10	0.00E+00	5.00E-09	1.42E-09	4.38E-11	0.00E+00	1.47E-09	5.39E-10	1.41E-11	0.00E+00	5.53E-10
5864	456880.6	3768419	4.993E-09	2.56E-10	0.00E+00	5.25E-09	4.99E-09	2.56E-10	0.00E+00	5.25E-09	1.50E-09	4.60E-11	0.00E+00	1.54E-09	5.67E-10	1.49E-11	0.00E+00	5.81E-10
5865	456876.7	3768410	5.056E-09	2.59E-10	0.00E+00	5.31E-09	5.06E-09	2.59E-10	0.00E+00	5.31E-09	1.51E-09	4.66E-11	0.00E+00	1.56E-09	5.74E-10	1.50E-11	0.00E+00	5.89E-10
5866	456872.9	3768401	5.12E-09	2.62E-10	0.00E+00	5.38E-09	5.12E-09	2.62E-10	0.00E+00	5.38E-09	1.53E-09	4.72E-11	0.00E+00	1.58E-09	5.81E-10	1.52E-11	0.00E+00	5.96E-10
5867	456869.1	3768391	5.184E-09	2.66E-10	0.00E+00	5.45E-09	5.18E-09	2.66E-10	0.00E+00	5.45E-09	1.55E-09	4.78E-11	0.00E+00	1.60E-09	5.88E-10	1.54E-11	0.00E+00	6.04E-10
5868	456865.2	3768382	5.25E-09	2.69E-10	0.00E+00	5.52E-09	5.25E-09	2.69E-10	0.00E+00	5.52E-09	1.57E-09	4.84E-11	0.00E+00	1.62E-09	5.96E-10	1.56E-11	0.00E+00	6.11E-10
5869	456861.4	3768373	5.316E-09	2.73E-10	0.00E+00	5.59E-09	5.32E-09	2.73E-10	0.00E+00	5.59E-09	1.59E-09	4.90E-11	0.00E+00	1.64E-09	6.03E-10	1.58E-11	0.00E+00	6.19E-10
5870	456857.5	3768364	5.383E-09	2.76E-10	0.00E+00	5.66E-09	5.38E-09	2.76E-10	0.00E+00	5.66E-09	1.61E-09	4.96E-11	0.00E+00	1.66E-09	6.11E-10	1.60E-11	0.00E+00	6.27E-10
5871	456853.7	3768355	5.451E-09	2.79E-10	0.00E+00	5.73E-09	5.45E-09	2.79E-10	0.00E+00	5.73E-09	1.63E-09	5.02E-11	0.00E+00	1.68E-09	6.18E-10	1.62E-11	0.00E+00	6.35E-10
5872	456849.8	3768346	5.52E-09	2.83E-10	0.00E+00	5.80E-09	5.52E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.09E-11	0.00E+00	1.70E-09	6.26E-10	1.64E-11	0.00E+00	6.43E-10
5873	456846	3768337	5.589E-09	2.87E-10	0.00E+00	5.88E-09	5.59E-09	2.87E-10	0.00E+00	5.88E-09	1.67E-09	5.15E-11	0.00E+00	1.73E-09	6.34E-10	1.66E-11	0.00E+00	6.51E-10
5874	456842.1	3768327	5.659E-09	2.90E-10	0.00E+00	5.95E-09	5.66E-09	2.90E-10	0.00E+00	5.95E-09	1.70E-09	5.22E-11	0.00E+00	1.75E-09	6.42E-10	1.68E-11	0.00E+00	6.59E-10
5875	456838.3	3768318	5.73E-09	2.94E-10	0.00E+00	6.02E-09	5.73E-09	2.94E-10	0.00E+00	6.02E-09	1.72E-09	5.28E-11	0.00E+00	1.77E-09	6.50E-10	1.71E-11	0.00E+00	6.67E-10
5876	456834.5	3768309	5.8E-09	2.97E-10	0.00E+00	6.10E-09	5.80E-09	2.97E-10	0.00E+00	6.10E-09	1.74E-09	5.35E-11	0.00E+00	1.79E-09	6.58E-10	1.73E-11	0.00E+00	6.75E-10
5877	456830.6	3768300	5.871E-09	3.01E-10	0.00E+00	6.17E-09	5.87E-09	3.01E-10	0.00E+00	6.17E-09	1.76E-09	5.41E-11	0.00E+00	1.81E-09	6.66E-10	1.75E-11	0.00E+00	6.84E-10
5878	456826.8	3768291	5.943E-09	3.05E-10	0.00E+00	6.25E-09	5.94E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.83E-09	6.74E-10	1.77E-11	0.00E+00	6.92E-10
5879	456822.9	3768282	6.015E-09	3.08E-10	0.00E+00	6.32E-09	6.02E-09	3.08E-10	0.00E+00	6.32E-09	1.80E-09	5.54E-11	0.00E+00	1.86E-09	6.82E-10	1.79E-11	0.00E+00	7.00E-10
5880	456819.1	3768273	6.087E-09	3.12E-10	0.00E+00	6.40E-09	6.09E-09	3.12E-10	0.00E+00	6.40E-09	1.82E-09	5.61E-11	0.00E+00	1.88E-09	6.91E-10	1.81E-11	0.00E+00	7.09E-10
5881	456815.2	3768264	6.16E-09	3.16E-10	0.00E+00	6.48E-09	6.16E-09	3.16E-10	0.00E+00	6.48E-09	1.84E-09	5.68E-11	0.00E+00	1.90E-09	6.99E-10	1.83E-11	0.00E+00	7.17E-10
5882	456811.4	3768254	6.231E-09	3.19E-10	0.00E+00	6.55E-09	6.23E-09	3.19E-10	0.00E+00	6.55E-09	1.87E-09	5.74E-11	0.00E+00	1.92E-09	7.07E-10	1.85E-11	0.00E+00	7.25E-10
5883	456807.5	3768245	6.302E-09	3.23E-10	0.00E+00	6.62E-09	6.30E-09	3.23E-10	0.00E+00	6.62E-09	1.89E-09	5.81E-11	0.00E+00	1.95E-09	7.15E-10	1.88E-11	0.00E+00	7.34E-10
5884	457333.9	3768752	4.33E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.91E-10	1.29E-11	0.00E+00	5.04E-10
5885	457343.9	3768752	4.376E-09	2.24E-10	0.00E+00	4.60E-09	4.38E-09	2.24E-10	0.00E+00	4.60E-09	1.31E-09	4.03E-11	0.00E+00	1.35E-09	4.96E-10	1.30E-11	0.00E+00	5.10E-10
5886	457353.8	3768752	4.424E-09	2.27E-10	0.00E+00	4.65E-09	4.42E-09	2.27E-10	0.00E+00	4.65E-09	1.33E-09	4.08E-11	0.00E+00	1.37E-09	5.02E-10	1.32E-11	0.00E+00	5.15E-10
5887	457363.8	3768752	4.472E-09	2.29E-10	0.00E+00	4.70E-09	4.47E-09	2.29E-10	0.00E+00	4.70E-09	1.34E-09	4.12E-11	0.00E+00	1.38E-09	5.07E-10	1.33E-11	0.00E+00	5.21E-10
5888	457373.8	3768752	4.518E-09	2.32E-10	0.00E+00	4.75E-09	4.52E-09	2.32E-10	0.00E+00	4.75E-09	1.35E-09	4.17E-11	0.00E+00	1.39E-09	5.13E-10	1.34E-11	0.00E+00	5.26E-10
5889	457383.7	3768752	4.567E-09	2.34E-10	0.00E+00	4.80E-09	4.57E-09	2.34E-10	0.00E+00	4.80E-09	1.37E-09	4.21E-11	0.00E+00	1.41E-09	5.18E-10	1.36E-11	0.00E+00	5.32E-10
5890	457393.7	3768752	4.618E-09	2.37E-10	0.00E+00	4.85E-09	4.62E-09	2.37E-10	0.00E+00	4.85E-09	1.38E-09	4.26E-11	0.00E+00	1.43E-09	5.24E-10	1.37E-11	0.00E+00	5.38E-10
5891	457403.7	3768752	4.673E-09	2.40E-10	0.00E+00	4.91E-09	4.67E-09	2.40E-10	0.00E+00	4.91E-09	1.40E-09	4.31E-11	0.00E+00	1.44E-09	5.30E-10	1.39E-11	0.00E+00	5.44E-10
5892	457413.7	3768752	4.731E-09	2.43E-10	0.00E+00	4.97E-09	4.73E-09	2.43E-10	0.00E+00	4.97E-09	1.42E-09	4.36E-11	0.00E+00	1.46E-09	5.37E-10	1.41E-11	0.00E+00	5.51E-10
5893	457423.6	3768752	4.789E-09	2.46E-10	0.00E+00	5.03E-09	4.79E-09	2.46E-10	0.00E+00	5.03E-09	1.43E-09	4.41E-11	0.00E+00	1.48E-09	5.43E-10	1.42E-11	0.00E+00	5.58E-10
5894	457433.6	3768752	4.846E-09	2.48E-10	0.00E+00	5.09E-09	4.85E-09	2.48E-10	0.00E+00	5.09E-09	1.45E-09	4.47E-11	0.00E+00	1.50E-09	5.50E-10	1.44E-11	0.00E+00	5.64E-10
5895	457443.6	3768752	4.904E-09	2.51E-10	0.00E+00	5.16E-09	4.90E-09	2.51E-10	0.00E+00	5.16E-09	1.47E-09	4.52E-11	0.00E+00	1.51E-09	5.56E-10	1.46E-11	0.00E+00	5.71E-10
5896	457453.5	3768752	4.966E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.63E-10	1.48E-11	0.00E+00	5.78E-10
5897	457463.5	3768752	5.035E-09	2.58E-10	0.00E+00	5.29E-09	5.04E-09	2.58E-10	0.00E+00	5.29E-09	1.51E-09	4.64E-11	0.00E+00	1.55E-09	5.71E-10	1.50E-11	0.00E+00	5.86E-10
5898	457473.5	3768752	5.106E-09	2.62E-10	0.00E+00	5.37E-09	5.11E-09	2.62E-10	0.00E+00	5.37E-09	1.53E-09	4.71E-11	0.00E+00	1.58E-09	5.79E-10	1.52E-11	0.00E+00	5.95E-10
5899	457483.4	3768752	5.181E-09	2.66E-10	0.00E+00	5.45E-09	5.18E-09	2.66E-10	0.00E+00	5.45E-09	1.55E-09	4.78E-11	0.00E+00	1.60E-09	5.88E-10	1.54E-11	0.00E+00	6.03E-10
5900	457493.4	3768752	5.258E-09	2.70E-10	0.00E+00	5.53E-09	5.26E-09	2.70E-10	0.00E+00	5.53E-09	1.57E-09	4.85E-11	0.00E+00	1.62E-09	5.97E-10	1.56E-11	0.00E+00	6.12E-10
5901	457503.4	3768752	5.339E-09	2.74E-10	0.00E+00	5.61E-09	5.34E-09	2.74E-10	0.00E+00	5.61E-09	1.60E-09	4.92E-11	0.00E+00	1.65E-09	6.06E-10	1.59E-11	0.00E+00	6.22E-10
5902	457513.4	3768752	5.42E-09	2.78E-10	0.00E+00	5.70E-09	5.42E-09	2.78E-10	0.00E+00	5.70E-09	1.62E-09	5.00E-11	0.00E+00	1.67E-09	6.15E-10	1.61E-11	0.00E+00	6.31E-10
5903	457523.3	3768752	5.499E-09	2.82E-10	0.00E+00	5.78E-09	5.50E-09	2.82E-10	0.00E+00	5.78E-09	1.65E-09	5.07E-11	0.00E+00	1.70E-09	6.24E-10	1.64E-11	0.00E+00	6.40E-10
5904	457533.3	3768752	5.581E-09	2.86E-10	0.00E+00	5.87E-09	5.58E-09	2.86E-10	0.00E+00	5.87E-09	1.67E-09	5.14E-11	0.00E+00	1.72E-09	6.33E-10	1.66E-11	0.00E+00	6.50E-10
5905	457543.3	3768752	5.666E-09	2.90E-10	0.00E+00	5.96E-09	5.67E-09	2.90E-10	0.00E+00	5.96E-09	1.70E-09	5.22E-11	0.00E+00	1.75E-09	6.43E-10	1.69E-11	0.00E+00	6.60E-10
5906	457553.2	3768752	5.756E-09	2.95E-10	0.00E+00	6.05E-09	5.76E-09	2.95E-10	0.00E+00	6.05E-09	1.72E-09	5.31E-11	0.00E+00	1.78E-09	6.53E-10	1.71E-11	0.00E+00	6.70E-10
5907	457563.2	3768752	5.849E-09	3.00E-10	0.00E+00	6.15E-09	5.85E-09	3.00E-10	0.00E+00	6.15E-09	1.75E-09	5.39E-11	0.00E+00	1.81E-09	6.64E-10	1.74E-11	0.00E+00	6.81E-10
5908	457573.2	3768752	5.949E-09	3.05E-10	0.00E+00	6.25E-09	5.95E-09	3.05E-10	0.00E+00	6.25E-09	1.78E-09	5.48E-11	0.00E+00	1.84E-09	6.75E-10	1.77E-11	0.00E+00	6.93E-10
5909	457583.1	3768752	6.061E-09	3.11E-10	0.00E+00	6.37E-09	6.06E-09	3.11E-10	0.00E+00	6.37E-09	1.82E-09	5.59E-11	0.00E+00	1.87E-09	6.88E-10	1.80E-11	0.00E+00	7.06E-10
5910	457593.1	3768752	6.178E-09	3.17E-10	0.00E+00	6.49E-09	6.18E-09	3.17E-10	0.00E+00	6.49E-09	1.85E-09	5.69E-11	0.00E+00	1.91E-09	7.01E-10	1.84E-11	0.00E+00	7.19E-10
5911	457603.1	3768752	6.3E-09	3.23E-10	0.00E+00	6.62E-09	6.30E-09	3.23E-10	0.00E+00	6.62E-09	1.89E-09	5.81E-11	0.00E+00	1.94E-09	7.15E-10	1.87E-11	0.00E+00	7.33E-10
5912	457613.1	3768752	6.426E-09	3.29E-10	0.00E+00	6.76E-09	6.43E-09	3.29E-10	0.00E+00	6.76E-09	1.92E-09	5.92E-11	0.00E+00	1.98E-09	7.29E-10	1.91E-11	0.00E+00	7.48E-10
5913	457623	3768752	6.559E-09	3.36E-10	0.00E+00	6.89E-09	6.56E-09	3.36E-10	0.00E+00	6.89E-09	1.96E-09	6.05E-11	0.00E+00	2.02E-09	7.44E-10	1.95E-11	0.00E+00	7.64E-10
5914	457633	3768752	6.697E-09	3.43E-10	0.00E+00	7.04E-09	6.70E-09	3.43E-10	0.00E+00	7.04E-09	2.01E-09	6.17E-11	0.00E+00	2.07E-09	7.60E-10	1.99E-11	0.00E+00	7.80E-10
5915	457643	3768752	6.84E-09	3.51E-10	0.00E+00	7.19E-09	6.84E-09	3.51E-10	0.00E+00	7.19E-09	2.05E-09	6.30E-11	0.00E+00	2.11E-09	7.76E-10	2.04E-11	0.00E+00	7.96E-10
5916	457652.9	3768752	6.989E-09	3.58E-10	0.00E+00	7.35E-09	6.99E-09	3.58E-10	0.00E+00	7.35E-09	2.09E-09	6.44E-11	0.00E+00	2.16E-09	7.93E-10	2.08E-11	0.00E+00	8.14E-10
5917	457662.9	3768752	7.138E-09	3.66E-10	0.00E+00	7.50E-09	7.14E-09	3.66E-10	0.00E+00	7.50E-09	2.14E-09	6.58E-11	0.00E+00	2.20E-09	8.10E-10	2.12E-11	0.00E+00	8.31E-10
5918	457672.9	3768752	7.281E-09	3.73E-10	0.00E+00	7.65E-09	7.28E-09	3.73E-10	0.00E+00	7.65E-09	2.18E-09	6.71E-11	0.00E+00	2.25E-09	8.26E-10	2.17E-11	0.00E+00	8.48E-10
5919	457682.8	3768752	7.43E-09	3.81E-10	0.00E+00	7.81E-09	7.43E-09	3.81E-10	0.00E+00	7.81E-09	2.23E-09	6.85E-11	0.00E+00	2.29E-09	8.43E-10	2.21E-11	0.00E+00	8.65E-10
5920	457692.8	3768752	7.583E-09	3.89E-10	0.00E+00	7.97E-09	7.58E-09	3.89E-10	0.00E+00	7.97E-09	2.27E-09	6.99E-11	0.00E+00	2.34E-09	8.60E-10	2.26E-11	0.00E+00	8.83E-10
5921	457702.8	3768752	7.743E-09	3.97E-10	0.00E+00	8.14E-09	7.74E-09	3.97E-10	0.00E+00	8.14E-09	2.32E-09	7.14E-11	0.00E+00	2.39E-09	8.78E-10	2.30E-11	0.00E+00	9.01E-10
5922	457296.4	3768781	3.879E-09	1.99E-10	0.00E+00	4.08E-09	3.88E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.40E-10	1.15E-11	0.00E+00	4.52E-10
5923	457287.2	3768777	3.881E-09	1.99E-10	0.00E+00	4.08E-09	3.88E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.40E-10	1.15E-11	0.00E+00	4.52E-10
5924	457278.1	3768773	3.883E-09	1.99E-10	0.00E+00	4.08E-09	3.88E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.40E-10	1.16E-11	0.00E+00	4.52E-10
5925	457268.9	3768770	3.885E-09	1.99E-10	0.00E+00	4.08E-09	3.88E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.52E-10
5926	457259.7	3768766	3.887E-09	1.99E-10	0.00E+00	4.09E-09	3.89E-09	1.99E-10	0.00E+00	4.09E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.53E-10
5927	457250.5	3768762	3.89E-09	1.99E-10	0.00E+00	4.09E-09	3.89E-09	1.99E-10	0.00E+00	4.09E-09	1.16E-09	3.59E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.53E-10
5928	457241.3	3768758	3.893E-09	2.00E-10	0.00E+00	4.09E-09	3.89E-09	2.00E-10	0.00E+00	4.09E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.53E-10
5929	457232.2	3768754	3.898E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.54E-10
5930	457223	3768751	3.902E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.60E-11	0.00E+00	1.20E-09	4.43E-10	1.16E-11	0.00E+00	4.54E-10
5931	457213.8	3768747	3.904E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.60E-11	0.00E+00	1.21E-09	4.43E-10	1.16E-11	0.00E+00	4.55E-10
5932	457204.6	3768743	3.943E-09	2.02E-10	0.00E+00	4.15E-09	3.94E-09	2.02E-10	0.00E+00	4.15E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.59E-10
5933	457195.5	3768739	3.94E-09	2.02E-10	0.00E+00	4.14E-09	3.94E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.59E-10

5934	457186.3	3768736	3.936E-09	2.02E-10	0.00E+00	4.14E-09	3.94E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.58E-10
5935	457177.1	3768732	3.932E-09	2.02E-10	0.00E+00	4.13E-09	3.93E-09	2.02E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
5936	457167.9	3768728	3.928E-09	2.01E-10	0.00E+00	4.13E-09	3.93E-09	2.01E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.57E-10
5937	457158.7	3768724	3.923E-09	2.01E-10	0.00E+00	4.12E-09	3.92E-09	2.01E-10	0.00E+00	4.12E-09	1.17E-09	3.62E-11	0.00E+00	1.21E-09	4.45E-10	1.17E-11	0.00E+00	4.57E-10
5938	457149.6	3768720	3.918E-09	2.01E-10	0.00E+00	4.12E-09	3.92E-09	2.01E-10	0.00E+00	4.12E-09	1.17E-09	3.61E-11	0.00E+00	1.21E-09	4.44E-10	1.17E-11	0.00E+00	4.56E-10
5939	457140.4	3768717	3.912E-09	2.01E-10	0.00E+00	4.11E-09	3.91E-09	2.01E-10	0.00E+00	4.11E-09	1.17E-09	3.61E-11	0.00E+00	1.21E-09	4.44E-10	1.16E-11	0.00E+00	4.55E-10
5940	457131.2	3768713	3.904E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.60E-11	0.00E+00	1.21E-09	4.43E-10	1.16E-11	0.00E+00	4.55E-10
5941	457122	3768709	3.896E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.54E-10
5942	457112.9	3768705	3.887E-09	1.99E-10	0.00E+00	4.09E-09	3.89E-09	1.99E-10	0.00E+00	4.09E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.53E-10
5943	457103.7	3768702	3.877E-09	1.99E-10	0.00E+00	4.08E-09	3.88E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.57E-11	0.00E+00	1.20E-09	4.40E-10	1.15E-11	0.00E+00	4.51E-10
5944	457094.5	3768698	3.866E-09	1.98E-10	0.00E+00	4.06E-09	3.87E-09	1.98E-10	0.00E+00	4.06E-09	1.16E-09	3.56E-11	0.00E+00	1.19E-09	4.39E-10	1.15E-11	0.00E+00	4.50E-10
5945	457085.3	3768694	3.855E-09	1.98E-10	0.00E+00	4.05E-09	3.86E-09	1.98E-10	0.00E+00	4.05E-09	1.15E-09	3.55E-11	0.00E+00	1.19E-09	4.37E-10	1.15E-11	0.00E+00	4.49E-10
5946	457076.2	3768690	3.844E-09	1.97E-10	0.00E+00	4.04E-09	3.84E-09	1.97E-10	0.00E+00	4.04E-09	1.15E-09	3.54E-11	0.00E+00	1.19E-09	4.36E-10	1.14E-11	0.00E+00	4.48E-10
5947	457067	3768686	3.831E-09	1.96E-10	0.00E+00	4.03E-09	3.83E-09	1.96E-10	0.00E+00	4.03E-09	1.15E-09	3.53E-11	0.00E+00	1.18E-09	4.35E-10	1.14E-11	0.00E+00	4.46E-10
5948	457057.8	3768683	3.818E-09	1.96E-10	0.00E+00	4.01E-09	3.82E-09	1.96E-10	0.00E+00	4.01E-09	1.14E-09	3.52E-11	0.00E+00	1.18E-09	4.33E-10	1.14E-11	0.00E+00	4.45E-10
5949	457048.6	3768679	3.803E-09	1.95E-10	0.00E+00	4.00E-09	3.80E-09	1.95E-10	0.00E+00	4.00E-09	1.14E-09	3.51E-11	0.00E+00	1.17E-09	4.32E-10	1.13E-11	0.00E+00	4.43E-10
5950	457039.4	3768675	3.788E-09	1.94E-10	0.00E+00	3.98E-09	3.79E-09	1.94E-10	0.00E+00	3.98E-09	1.13E-09	3.49E-11	0.00E+00	1.17E-09	4.30E-10	1.13E-11	0.00E+00	4.41E-10
5951	457030.3	3768671	3.771E-09	1.93E-10	0.00E+00	3.96E-09	3.77E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.48E-11	0.00E+00	1.16E-09	4.28E-10	1.12E-11	0.00E+00	4.39E-10
5952	457021.1	3768668	3.755E-09	1.93E-10	0.00E+00	3.95E-09	3.76E-09	1.93E-10	0.00E+00	3.95E-09	1.12E-09	3.46E-11	0.00E+00	1.16E-09	4.26E-10	1.12E-11	0.00E+00	4.37E-10
5953	457011.9	3768664	3.738E-09	1.92E-10	0.00E+00	3.93E-09	3.74E-09	1.92E-10	0.00E+00	3.93E-09	1.12E-09	3.45E-11	0.00E+00	1.15E-09	4.24E-10	1.11E-11	0.00E+00	4.35E-10
5954	457002.7	3768660	3.721E-09	1.91E-10	0.00E+00	3.91E-09	3.72E-09	1.91E-10	0.00E+00	3.91E-09	1.11E-09	3.43E-11	0.00E+00	1.15E-09	4.22E-10	1.11E-11	0.00E+00	4.33E-10
5955	456993.6	3768656	3.702E-09	1.90E-10	0.00E+00	3.89E-09	3.70E-09	1.90E-10	0.00E+00	3.89E-09	1.11E-09	3.41E-11	0.00E+00	1.14E-09	4.20E-10	1.10E-11	0.00E+00	4.31E-10
5956	456984.4	3768652	3.682E-09	1.89E-10	0.00E+00	3.87E-09	3.68E-09	1.89E-10	0.00E+00	3.87E-09	1.10E-09	3.39E-11	0.00E+00	1.14E-09	4.18E-10	1.10E-11	0.00E+00	4.29E-10
5957	456975.2	3768649	3.662E-09	1.88E-10	0.00E+00	3.85E-09	3.66E-09	1.88E-10	0.00E+00	3.85E-09	1.10E-09	3.38E-11	0.00E+00	1.13E-09	4.16E-10	1.09E-11	0.00E+00	4.26E-10
5958	456966	3768645	3.642E-09	1.87E-10	0.00E+00	3.83E-09	3.64E-09	1.87E-10	0.00E+00	3.83E-09	1.09E-09	3.36E-11	0.00E+00	1.12E-09	4.13E-10	1.08E-11	0.00E+00	4.24E-10
5959	456956.8	3768641	3.621E-09	1.86E-10	0.00E+00	3.81E-09	3.62E-09	1.86E-10	0.00E+00	3.81E-09	1.08E-09	3.34E-11	0.00E+00	1.12E-09	4.11E-10	1.08E-11	0.00E+00	4.22E-10
5960	456947.7	3768637	3.599E-09	1.85E-10	0.00E+00	3.78E-09	3.60E-09	1.85E-10	0.00E+00	3.78E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.08E-10	1.07E-11	0.00E+00	4.19E-10
5961	456938.5	3768634	3.578E-09	1.83E-10	0.00E+00	3.76E-09	3.58E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.30E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.17E-10
5962	456925.5	3768621	3.596E-09	1.84E-10	0.00E+00	3.78E-09	3.60E-09	1.84E-10	0.00E+00	3.78E-09	1.08E-09	3.31E-11	0.00E+00	1.11E-09	4.08E-10	1.07E-11	0.00E+00	4.19E-10
5963	456898.5	3768557	3.892E-09	2.00E-10	0.00E+00	4.09E-09	3.89E-09	2.00E-10	0.00E+00	4.09E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.53E-10
5964	456894.7	3768547	3.936E-09	2.02E-10	0.00E+00	4.14E-09	3.94E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.58E-10
5965	456890.8	3768538	3.981E-09	2.04E-10	0.00E+00	4.18E-09	3.98E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.67E-11	0.00E+00	1.23E-09	4.52E-10	1.18E-11	0.00E+00	4.63E-10
5966	456886.9	3768529	4.026E-09	2.06E-10	0.00E+00	4.23E-09	4.03E-09	2.06E-10	0.00E+00	4.23E-09	1.21E-09	3.71E-11	0.00E+00	1.24E-09	4.57E-10	1.20E-11	0.00E+00	4.69E-10
5967	456883.1	3768520	4.072E-09	2.09E-10	0.00E+00	4.28E-09	4.07E-09	2.09E-10	0.00E+00	4.28E-09	1.22E-09	3.75E-11	0.00E+00	1.26E-09	4.62E-10	1.21E-11	0.00E+00	4.74E-10
5968	456879.2	3768511	4.12E-09	2.11E-10	0.00E+00	4.33E-09	4.12E-09	2.11E-10	0.00E+00	4.33E-09	1.23E-09	3.80E-11	0.00E+00	1.27E-09	4.67E-10	1.23E-11	0.00E+00	4.80E-10
5969	456875.4	3768502	4.167E-09	2.14E-10	0.00E+00	4.38E-09	4.17E-09	2.14E-10	0.00E+00	4.38E-09	1.25E-09	3.84E-11	0.00E+00	1.29E-09	4.73E-10	1.24E-11	0.00E+00	4.85E-10
5970	456871.5	3768493	4.215E-09	2.16E-10	0.00E+00	4.43E-09	4.22E-09	2.16E-10	0.00E+00	4.43E-09	1.26E-09	3.89E-11	0.00E+00	1.30E-09	4.78E-10	1.25E-11	0.00E+00	4.91E-10
5971	456867.7	3768483	4.264E-09	2.19E-10	0.00E+00	4.48E-09	4.26E-09	2.19E-10	0.00E+00	4.48E-09	1.28E-09	3.93E-11	0.00E+00	1.32E-09	4.84E-10	1.27E-11	0.00E+00	4.96E-10
5972	456863.8	3768474	4.314E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
5973	456860	3768465	4.364E-09	2.24E-10	0.00E+00	4.59E-09	4.36E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
5974	456856.1	3768456	4.415E-09	2.26E-10	0.00E+00	4.64E-09	4.41E-09	2.26E-10	0.00E+00	4.64E-09	1.32E-09	4.07E-11	0.00E+00	1.36E-09	5.01E-10	1.31E-11	0.00E+00	5.14E-10
5975	456840.7	3768419	4.627E-09	2.37E-10	0.00E+00	4.86E-09	4.63E-09	2.37E-10	0.00E+00	4.86E-09	1.39E-09	4.27E-11	0.00E+00	1.43E-09	5.25E-10	1.38E-11	0.00E+00	5.39E-10
5976	456836.9	3768410	4.683E-09	2.40E-10	0.00E+00	4.92E-09	4.68E-09	2.40E-10	0.00E+00	4.92E-09	1.40E-09	4.32E-11	0.00E+00	1.45E-09	5.31E-10	1.39E-11	0.00E+00	5.45E-10
5977	456833	3768401	4.738E-09	2.43E-10	0.00E+00	4.98E-09	4.74E-09	2.43E-10	0.00E+00	4.98E-09	1.42E-09	4.37E-11	0.00E+00	1.46E-09	5.38E-10	1.41E-11	0.00E+00	5.52E-10
5978	456829.2	3768392	4.795E-09	2.46E-10	0.00E+00	5.04E-09	4.79E-09	2.46E-10	0.00E+00	5.04E-09	1.44E-09	4.42E-11	0.00E+00	1.48E-09	5.44E-10	1.43E-11	0.00E+00	5.58E-10
5979	456825.3	3768383	4.851E-09	2.49E-10	0.00E+00	5.10E-09	4.85E-09	2.49E-10	0.00E+00	5.10E-09	1.45E-09	4.47E-11	0.00E+00	1.50E-09	5.50E-10	1.44E-11	0.00E+00	5.65E-10
5980	456821.5	3768374	4.909E-09	2.52E-10	0.00E+00	5.16E-09	4.91E-09	2.52E-10	0.00E+00	5.16E-09	1.47E-09	4.53E-11	0.00E+00	1.52E-09	5.57E-10	1.46E-11	0.00E+00	5.72E-10
5981	456817.6	3768365	4.968E-09	2.55E-10	0.00E+00	5.22E-09	4.97E-09	2.55E-10	0.00E+00	5.22E-09	1.49E-09	4.58E-11	0.00E+00	1.53E-09	5.64E-10	1.48E-11	0.00E+00	5.78E-10
5982	456813.8	3768355	5.028E-09	2.58E-10	0.00E+00	5.29E-09	5.03E-09	2.58E-10	0.00E+00	5.29E-09	1.51E-09	4.63E-11	0.00E+00	1.55E-09	5.70E-10	1.50E-11	0.00E+00	5.85E-10
5983	456809.9	3768346	5.088E-09	2.61E-10	0.00E+00	5.35E-09	5.09E-09	2.61E-10	0.00E+00	5.35E-09	1.52E-09	4.69E-11	0.00E+00	1.57E-09	5.77E-10	1.51E-11	0.00E+00	5.92E-10
5984	456806.1	3768337	5.148E-09	2.64E-10	0.00E+00	5.41E-09	5.15E-09	2.64E-10	0.00E+00	5.41E-09	1.54E-09	4.75E-11	0.00E+00	1.59E-09	5.84E-10	1.53E-11	0.00E+00	5.99E-10
5985	456802.2	3768328	5.208E-09	2.67E-10	0.00E+00	5.48E-09	5.21E-09	2.67E-10	0.00E+00	5.48E-09	1.56E-09	4.80E-11	0.00E+00	1.61E-09	5.91E-10	1.55E-11	0.00E+00	6.06E-10
5986	456798.4	3768319	5.269E-09	2.70E-10	0.00E+00	5.54E-09	5.27E-09	2.70E-10	0.00E+00	5.54E-09	1.58E-09	4.86E-11	0.00E+00	1.63E-09	5.98E-10	1.57E-11	0.00E+00	6.13E-10
5987	456794.5	3768310	5.33E-09	2.73E-10	0.00E+00	5.60E-09	5.33E-09	2.73E-10	0.00E+00	5.60E-09	1.60E-09	4.91E-11	0.00E+00	1.65E-09	6.05E-10	1.59E-11	0.00E+00	6.21E-10
5988	456790.7	3768300	5.393E-09	2.76E-10	0.00E+00	5.67E-09	5.39E-09	2.76E-10	0.00E+00	5.67E-09	1.62E-09	4.97E-11	0.00E+00	1.66E-09	6.12E-10	1.60E-11	0.00E+00	6.28E-10
5989	456786.8	3768291	5.455E-09	2.80E-10	0.00E+00	5.73E-09	5.46E-09	2.80E-10	0.00E+00	5.73E-09	1.63E-09	5.03E-11	0.00E+00	1.68E-09	6.19E-10	1.62E-11	0.00E+00	6.35E-10
5990	456783	3768282	5.517E-09	2.83E-10	0.00E+00	5.80E-09	5.52E-09	2.83E-10	0.00E+00	5.80E-09	1.65E-09	5.09E-11	0.00E+00	1.70E-09	6.26E-10	1.64E-11	0.00E+00	6.42E-10
5991	456779.1	3768273	5.578E-09	2.86E-10	0.00E+00	5.86E-09	5.58E-09	2.86E-10	0.00E+00	5.86E-09	1.67E-09	5.14E-11	0.00E+00	1.72E-09	6.33E-10	1.66E-11	0.00E+00	6.49E-10
5992	456775.3	3768264	5.639E-09	2.89E-10	0.00E+00	5.93E-09	5.64E-09	2.89E-10	0.00E+00	5.93E-09	1.69E-09	5.20E-11	0.00E+00	1.74E-09	6.40E-10	1.68E-11	0.00E+00	6.57E-10
5993	456771.4	3768255	5.7E-09	2.92E-10	0.00E+00	5.99E-09	5.70E-09	2.92E-10	0.00E+00	5.99E-09	1.71E-09	5.25E-11	0.00E+00	1.76E-09	6.47E-10	1.70E-11	0.00E+00	6.64E-10
5994	456767.6	3768246	5.763E-09	2.95E-10	0.00E+00	6.06E-09	5.76E-09	2.95E-10	0.00E+00	6.06E-09	1.73E-09	5.31E-11	0.00E+00	1.78E-09	6.54E-10	1.71E-11	0.00E+00	6.71E-10
5995	457333.9	3768792	3.896E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.54E-10
5996	457343.9	3768792	3.935E-09	2.02E-10	0.00E+00	4.14E-09	3.93E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
5997	457353.8	3768792	3.974E-09	2.04E-10	0.00E+00	4.18E-09	3.97E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.66E-11	0.00E+00	1.23E-09	4.51E-10	1.18E-11	0.00E+00	4.63E-10
5998	457363.8	3768792	4.014E-09	2.06E-10	0.00E+00	4.22E-09	4.01E-09	2.06E-10	0.00E+00	4.22E-09	1.20E-09	3.70E-11	0.00E+00	1.24E-09	4.55E-10	1.19E-11	0.00E+00	4.67E-10
5999	457373.8	3768792	4.055E-09	2.08E-10	0.00E+00	4.26E-09	4.05E-09	2.08E-10	0.00E+00	4.26E-09	1.21E-09	3.74E-11	0.00E+00	1.25E-09	4.60E-10	1.21E-11	0.00E+00	4.72E-10
6000	457383.8	3768792	4.097E-09	2.10E-10	0.00E+00	4.31E-09	4.10E-09	2.10E-10	0.00E+00	4.31E-09	1.23E-09	3.78E-11	0.00E+00	1.26E-09	4.65E-10	1.22E-11	0.00E+00	4.77E-10
6001	457393.7	3768792	4.14E-09	2.12E-10	0.00E+00	4.35E-09	4.14E-09	2.12E-10	0.00E+00	4.35E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.82E-10
6002	457403.7	3768792	4.186E-09	2.15E-10	0.00E+00	4.40E-09	4.19E-09	2.15E-10	0.00E+00	4.40E-09	1.25E-09	3.86E-11	0.00E+00	1.29E-09	4.75E-10	1.25E-11	0.00E+00	4.87E-10
6003	457413.7	3768792	4.234E-09	2.17E-10	0.00E+00	4.45E-09	4.23E-09	2.17E-10	0.00E+00	4.45E-09	1.27E-09	3.90E-11	0.00E+00	1.31E-09	4.80E-10	1.26E-11	0.00E+00	4.93E-10
6004	457423.6	3768792	4.283E-09	2.20E-10	0.00E+00	4.50E-09	4.28E-09	2.20E-10	0.00E+00	4.50E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.86E-10	1.27E-11	0.00E+00	4.99E-10
6005	457433.6	3768792	4.333E-09	2.22E-10	0.00E+00	4.56E-09	4.33E-09	2.22E-10	0.00E+00	4.56E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.92E-10	1.29E-11	0.00E+00	5.05E-10
6006	457443.6	3768792	4.386E-09	2.25E-10	0.00E+00	4.61E-09	4.39E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.04E-11	0.00E+00	1.35E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
6007	457453.5	3768792	4.437E-09	2.27E-10	0.00E+00	4.66E-09	4.44E-09	2.27E-10	0.00E+00	4.66E-09	1.33E-09	4.09E-11	0.00E+00	1.37E-09	5.03E-10	1.32E-11	0.00E+00	5.17E-10
6008	457463.5	3768792	4.483E-09	2.30E-10	0.00E+00	4.71E-09	4.48E-09	2.30E-10	0.00E+00	4.71E-09	1.34E-09	4.13E-11	0.00E+00	1.38E-09	5.09E-10	1.33E-11	0.00E+00	5.22E-10
6009	457473.5	3768792	4.531E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.18E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.28E-10
6010	457483.5	3768792	4.585E-09	2.35E-10	0.00E+00	4.82E-09	4.58E-09	2.35E-10	0.00E+00	4.82E-09	1.37E-09	4.23E-11	0.00E+00	1.42E-09	5.20E-10	1.36E-11	0.00E+00	5.34E-10
6011	457493.4	3768792	4.647E-09	2.38E-10	0.00E+00	4.89E-09	4.65E-09	2.38E-10	0.00E+00	4.89E-09	1.39E-09	4.28E-11	0.00E+00	1.43E-09	5.27E-10	1.38E-11	0.00E+00	5.41E-10
6012	457503.4	3768792	4.711E-09	2.42E-10	0.00E+00	4.95E-09	4.71E-09	2.42E-10	0.00E+00	4.95E-09	1.41E-09	4.34E-11	0.00E+00	1.45E-09	5.35E-10	1.40E-11	0.00E+00	5.49E-10
6013	457513.4	3768792	4.778E-09	2.45E-10	0.00E+00	5.02E-09	4.78E-09	2.45E-10	0.00E+00	5.02E-09	1.43E-09	4.40E-11	0.00E+00	1.48E-09	5.42E-10	1.42E-11	0.00E+00	5.56E-10
6014	457523.3	3768792	4.846E-09	2.48E-10	0.00E+00	5.09E-09	4.85E-09	2.48E-10	0.00E+00	5.09E-09	1.45E-09	4.47E-11	0.00E+00	1.50E-09	5.50E-10	1.44E-11	0.00E+00	5.64E-10
6015	457533.3	3768792	4.916E-09	2.52E-10	0.00E+00	5.17E-09	4.92E-09	2.52E-10	0.00E+00	5.17E-09	1.47E-09	4.53E-11	0.00E+00	1.52E-09	5.58E-10	1.46E-11	0.00E+00	5.72E-10
6016	457543.3	3768792	4.99E-09	2.56E-10	0.00E+00	5.25E-09	4.99E-09	2.56E-10	0.00E+00	5.25E-09	1.49E-09	4.60E-11	0.00E+00	1.54E-09	5.66E-10	1.48E-11	0.00E+00	5.81E-10
6017	457553.3	3768792	5.069E-09	2.60E-10	0.00E+00	5.33E-09	5.07E-09	2.60E-10	0.00E+00	5.33E-09	1.52E-09	4.67E-11	0.00E+00	1.56E-09	5.75E-10	1.51E-11	0.00E+00	5.90E-10
6018	457563.2	3768792	5.151E-09	2.64E-10	0.00E+00	5.42E-09	5.15E-09	2.64E-10	0.00E+00	5.42E-09	1.54E-09	4.75E-11	0.00E+00	1.59E-09	5.84E-10	1.53E-11	0.00E+00	6.00E-10
6019	457573.2	3768792	5.237E-09	2.68E-10	0.00E+00	5.50E-09	5.24E-09	2.68E-10	0.00E+00	5.50E-09	1.57E-09	4.83E-11	0.00E+00	1.62E-09	5.94E-10	1.56E-11	0.00E+00	6.10E-10
6020	457583.2	3768792	5.326E-09	2.73E-10	0.00E+00	5.60E-09	5.33E-09	2.73E-10	0.00E+00	5.60E-09	1.60E-09	4.91E-11	0.00E+00	1.64E-09	6.04E-10	1.58E-11	0.00E+00	6.20E-10
6021	457593.1	3768792	5.419E-09	2.78E-10	0.00E+00	5.70E-09	5.42E-09	2.78E-10	0.00E+00	5.70E-09	1.62E-09	4.99E-11	0.00E+00	1.67E-09	6.15E-10	1.61E-11	0.00E+00	6.31E-10
6022	457603.1	3768792	5.509E-09	2.82E-10	0.00E+00	5.79E-09	5.51E-09	2.82E-10	0.00E+00	5.79E-09	1.65E-09	5.08E-11	0.00E+00	1.70E-09	6.25E-10	1.64E-11	0.00E+00	6.41E-10
6023	457613.1	3768792	5.592E-09	2.87E-10	0.00E+00	5.88E-09	5.59E-09	2.87E-10	0.00E+00	5.88E-09	1.67E-09	5.15E-11	0.00E+00	1.73E-09	6.34E-10	1.66E-11	0.00E+00	6.51E-10
6024	457623	3768792	5.679E-09	2.91E-10	0.00E+00	5.97E-09	5.68E-09	2.91E-10	0.00E+00	5.97E-09	1.70E-09	5.23E-11	0.00E+00	1.75E-09	6.44E-10	1.69E-11	0.00E+00	6.61E-10
6025	457633	3768792	5.775E-09	2.96E-10	0.00E+00	6.07E-09	5.77E-09	2.96E-10	0.00E+00	6.07E-09	1.73E-09	5.32E-11	0.00E+00	1.78E-09	6.55E-10	1.72E-11	0.00E+00	6.72E-10
6026	457643	3768792	5.886E-09	3.02E-10	0.00E+00	6.19E-09	5.89E-09	3.02E-10	0.00E+00	6.19E-09	1.76E-09	5.43E-11	0.00E+00	1.82E-09	6.68E-10	1.75E-11	0.00E+00	6.85E-10
6027	457653	3768792	6.001E-09	3.08E-10	0.00E+00	6.31E-09	6.00E-09	3.08E-10	0.00E+00	6.31E-09	1.80E-09	5.53E-11	0.00E+00	1.85E-09	6.81E-10	1.79E-11	0.00E+00	6.99E-10
6028	457662.9	3768792	6.121E-09	3.14E-10	0.00E+00	6.43E-09	6.12E-09	3.14E-10	0.00E+00	6.43E-09	1.83E-09	5.64E-11	0.00E+00	1.89E-09	6.94E-10	1.82E-11	0.00E+00	7.13E-10
6029	457672.9	3768792	6.242E-09	3.20E-10	0.00E+00	6.56E-09	6.24E-09	3.20E-10	0.00E+00	6.56E-09	1.87E-09	5.75E-11	0.00E+00	1.93E-09	7.08E-10	1.86E-11	0.00E+00	7.27E-10
6030	457682.9	3768792	6.367E-09	3.26E-10	0.00E+00	6.69E-09	6.37E-09	3.26E-10	0.00E+00	6.69E-09	1.91E-09	5.87E-11	0.00E+00	1.97E-09	7.22E-10	1.89E-11	0.00E+00	7.41E-10
6031	457692.8	3768792	6.498E-09	3.33E-10	0.00E+00	6.83E-09	6.50E-09	3.33E-10	0.00E+00	6.83E-09	1.95E-09	5.99E-11	0.00E+00	2.01E-09	7.37E-10	1.93E-11	0.00E+00	7.57E-10
6032	457702.8	3768792	6.636E-09	3.40E-10	0.00E+00	6.98E-09	6.64E-09	3.40E-10	0.00E+00	6.98E-09	1.99E-09	6.12E-11	0.00E+00	2.05E-09	7.53E-10	1.97E-11	0.00E+00	7.73E-10
6033	457296.4	3768821	3.516E-09	1.80E-10	0.00E+00	3.70E-09	3.52E-09	1.80E-10	0.00E+00	3.70E-09	1.05E-09	3.24E-11	0.00E+00	1.09E-09	3.99E-10	1.05E-11	0.00E+00	4.09E-10
6034	457287.2	3768817	3.52E-09	1.80E-10	0.00E+00	3.70E-09	3.52E-09	1.80E-10	0.00E+00	3.70E-09	1.05E-09	3.25E-11	0.00E+00	1.09E-09	3.99E-10	1.05E-11	0.00E+00	4.10E-10
6035	457278	3768813	3.525E-09	1.81E-10	0.00E+00	3.71E-09	3.52E-09	1.81E-10	0.00E+00	3.71E-09	1.06E-09	3.25E-11	0.00E+00	1.09E-09	4.00E-10	1.05E-11	0.00E+00	4.10E-10
6036	457268.8	3768809	3.529E-09	1.81E-10	0.00E+00	3.71E-09	3.53E-09	1.81E-10	0.00E+00	3.71E-09	1.06E-09	3.25E-11	0.00E+00	1.09E-09	4.00E-10	1.05E-11	0.00E+00	4.11E-10
6037	457259.6	3768806	3.535E-09	1.81E-10	0.00E+00	3.72E-09	3.53E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6038	457250.4	3768802	3.539E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6039	457241.2	3768798	3.542E-09	1.82E-10	0.00E+00	3.72E-09	3.54E-09	1.82E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.02E-10	1.05E-11	0.00E+00	4.12E-10
6040	457232	3768794	3.544E-09	1.82E-10	0.00E+00	3.73E-09	3.54E-09	1.82E-10	0.00E+00	3.73E-09	1.06E-09	3.27E-11	0.00E+00	1.09E-09	4.02E-10	1.05E-11	0.00E+00	4.13E-10
6041	457222.8	3768791	3.547E-09	1.82E-10	0.00E+00	3.73E-09	3.55E-09	1.82E-10	0.00E+00	3.73E-09	1.06E-09	3.27E-11	0.00E+00	1.10E-09	4.02E-10	1.06E-11	0.00E+00	4.13E-10
6042	457213.7	3768787	3.551E-09	1.82E-10	0.00E+00	3.73E-09	3.55E-09	1.82E-10	0.00E+00	3.73E-09	1.06E-09	3.27E-11	0.00E+00	1.10E-09	4.03E-10	1.06E-11	0.00E+00	4.13E-10
6043	457204.5	3768783	3.555E-09	1.82E-10	0.00E+00	3.74E-09	3.56E-09	1.82E-10	0.00E+00	3.74E-09	1.06E-09	3.28E-11	0.00E+00	1.10E-09	4.03E-10	1.06E-11	0.00E+00	4.14E-10
6044	457195.3	3768779	3.558E-09	1.82E-10	0.00E+00	3.74E-09	3.56E-09	1.82E-10	0.00E+00	3.74E-09	1.07E-09	3.28E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.14E-10
6045	457186.1	3768775	3.56E-09	1.83E-10	0.00E+00	3.74E-09	3.56E-09	1.83E-10	0.00E+00	3.74E-09	1.07E-09	3.28E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.15E-10

6046	457176.9	3768772	3.592E-09	1.84E-10	0.00E+00	3.78E-09	3.59E-09	1.84E-10	0.00E+00	3.78E-09	1.08E-09	3.31E-11	0.00E+00	1.11E-09	4.07E-10	1.07E-11	0.00E+00	4.18E-10
6047	457167.7	3768768	3.589E-09	1.84E-10	0.00E+00	3.77E-09	3.59E-09	1.84E-10	0.00E+00	3.77E-09	1.07E-09	3.31E-11	0.00E+00	1.11E-09	4.07E-10	1.07E-11	0.00E+00	4.18E-10
6048	457158.5	3768764	3.585E-09	1.84E-10	0.00E+00	3.77E-09	3.59E-09	1.84E-10	0.00E+00	3.77E-09	1.07E-09	3.31E-11	0.00E+00	1.11E-09	4.07E-10	1.07E-11	0.00E+00	4.17E-10
6049	457149.3	3768760	3.582E-09	1.84E-10	0.00E+00	3.77E-09	3.58E-09	1.84E-10	0.00E+00	3.77E-09	1.07E-09	3.30E-11	0.00E+00	1.11E-09	4.06E-10	1.07E-11	0.00E+00	4.17E-10
6050	457140.1	3768757	3.578E-09	1.83E-10	0.00E+00	3.76E-09	3.58E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.30E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.17E-10
6051	457130.9	3768753	3.574E-09	1.83E-10	0.00E+00	3.76E-09	3.57E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.16E-10
6052	457121.7	3768749	3.57E-09	1.83E-10	0.00E+00	3.75E-09	3.57E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.05E-10	1.06E-11	0.00E+00	4.16E-10
6053	457112.6	3768745	3.564E-09	1.83E-10	0.00E+00	3.75E-09	3.56E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.28E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.15E-10
6054	457103.4	3768741	3.557E-09	1.82E-10	0.00E+00	3.74E-09	3.56E-09	1.82E-10	0.00E+00	3.74E-09	1.07E-09	3.28E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.14E-10
6055	457094.2	3768738	3.549E-09	1.82E-10	0.00E+00	3.73E-09	3.55E-09	1.82E-10	0.00E+00	3.73E-09	1.06E-09	3.27E-11	0.00E+00	1.10E-09	4.03E-10	1.06E-11	0.00E+00	4.13E-10
6056	457085	3768734	3.541E-09	1.82E-10	0.00E+00	3.72E-09	3.54E-09	1.82E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.02E-10	1.05E-11	0.00E+00	4.12E-10
6057	457075.8	3768730	3.533E-09	1.81E-10	0.00E+00	3.71E-09	3.53E-09	1.81E-10	0.00E+00	3.71E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.11E-10
6058	457066.6	3768726	3.524E-09	1.81E-10	0.00E+00	3.70E-09	3.52E-09	1.81E-10	0.00E+00	3.70E-09	1.06E-09	3.25E-11	0.00E+00	1.09E-09	4.00E-10	1.05E-11	0.00E+00	4.10E-10
6059	457057.4	3768722	3.514E-09	1.80E-10	0.00E+00	3.69E-09	3.51E-09	1.80E-10	0.00E+00	3.69E-09	1.05E-09	3.24E-11	0.00E+00	1.09E-09	3.99E-10	1.05E-11	0.00E+00	4.09E-10
6060	457048.2	3768719	3.503E-09	1.80E-10	0.00E+00	3.68E-09	3.50E-09	1.80E-10	0.00E+00	3.68E-09	1.05E-09	3.23E-11	0.00E+00	1.08E-09	3.97E-10	1.04E-11	0.00E+00	4.08E-10
6061	457039	3768715	3.492E-09	1.79E-10	0.00E+00	3.67E-09	3.49E-09	1.79E-10	0.00E+00	3.67E-09	1.05E-09	3.22E-11	0.00E+00	1.08E-09	3.96E-10	1.04E-11	0.00E+00	4.07E-10
6062	457029.8	3768711	3.479E-09	1.78E-10	0.00E+00	3.66E-09	3.48E-09	1.78E-10	0.00E+00	3.66E-09	1.04E-09	3.21E-11	0.00E+00	1.07E-09	3.95E-10	1.04E-11	0.00E+00	4.05E-10
6063	457020.6	3768707	3.467E-09	1.78E-10	0.00E+00	3.64E-09	3.47E-09	1.78E-10	0.00E+00	3.64E-09	1.04E-09	3.20E-11	0.00E+00	1.07E-09	3.93E-10	1.03E-11	0.00E+00	4.04E-10
6064	457011.4	3768704	3.454E-09	1.77E-10	0.00E+00	3.63E-09	3.45E-09	1.77E-10	0.00E+00	3.63E-09	1.03E-09	3.18E-11	0.00E+00	1.07E-09	3.92E-10	1.03E-11	0.00E+00	4.02E-10
6065	457002.3	3768700	3.44E-09	1.76E-10	0.00E+00	3.62E-09	3.44E-09	1.76E-10	0.00E+00	3.62E-09	1.03E-09	3.17E-11	0.00E+00	1.06E-09	3.90E-10	1.02E-11	0.00E+00	4.01E-10
6066	456993.1	3768696	3.425E-09	1.76E-10	0.00E+00	3.60E-09	3.42E-09	1.76E-10	0.00E+00	3.60E-09	1.03E-09	3.16E-11	0.00E+00	1.06E-09	3.89E-10	1.02E-11	0.00E+00	3.99E-10
6067	456983.9	3768692	3.409E-09	1.75E-10	0.00E+00	3.58E-09	3.41E-09	1.75E-10	0.00E+00	3.58E-09	1.02E-09	3.14E-11	0.00E+00	1.05E-09	3.87E-10	1.01E-11	0.00E+00	3.97E-10
6068	456974.7	3768688	3.393E-09	1.74E-10	0.00E+00	3.57E-09	3.39E-09	1.74E-10	0.00E+00	3.57E-09	1.02E-09	3.13E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.95E-10
6069	456965.5	3768685	3.376E-09	1.73E-10	0.00E+00	3.55E-09	3.38E-09	1.73E-10	0.00E+00	3.55E-09	1.01E-09	3.11E-11	0.00E+00	1.04E-09	3.83E-10	1.00E-11	0.00E+00	3.93E-10
6070	456956.3	3768681	3.359E-09	1.72E-10	0.00E+00	3.53E-09	3.36E-09	1.72E-10	0.00E+00	3.53E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.81E-10	1.00E-11	0.00E+00	3.91E-10
6071	456947.1	3768677	3.342E-09	1.71E-10	0.00E+00	3.51E-09	3.34E-09	1.71E-10	0.00E+00	3.51E-09	1.00E-09	3.08E-11	0.00E+00	1.03E-09	3.79E-10	9.94E-12	0.00E+00	3.89E-10
6072	456937.9	3768673	3.324E-09	1.70E-10	0.00E+00	3.49E-09	3.32E-09	1.70E-10	0.00E+00	3.49E-09	9.96E-10	3.06E-11	0.00E+00	1.03E-09	3.77E-10	9.89E-12	0.00E+00	3.87E-10
6073	456928.7	3768670	3.305E-09	1.69E-10	0.00E+00	3.47E-09	3.31E-09	1.69E-10	0.00E+00	3.47E-09	9.90E-10	3.05E-11	0.00E+00	1.02E-09	3.75E-10	9.84E-12	0.00E+00	3.85E-10
6074	456897.3	3768649	3.284E-09	1.68E-10	0.00E+00	3.45E-09	3.28E-09	1.68E-10	0.00E+00	3.45E-09	9.83E-10	3.03E-11	0.00E+00	1.01E-09	3.73E-10	9.77E-12	0.00E+00	3.82E-10
6075	456893.4	3768640	3.319E-09	1.70E-10	0.00E+00	3.49E-09	3.32E-09	1.70E-10	0.00E+00	3.49E-09	9.94E-10	3.06E-11	0.00E+00	1.02E-09	3.76E-10	9.88E-12	0.00E+00	3.86E-10
6076	456889.6	3768631	3.354E-09	1.72E-10	0.00E+00	3.53E-09	3.35E-09	1.72E-10	0.00E+00	3.53E-09	1.00E-09	3.09E-11	0.00E+00	1.04E-09	3.80E-10	9.98E-12	0.00E+00	3.90E-10
6077	456885.7	3768622	3.389E-09	1.74E-10	0.00E+00	3.56E-09	3.39E-09	1.74E-10	0.00E+00	3.56E-09	1.02E-09	3.12E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.95E-10
6078	456881.9	3768612	3.425E-09	1.76E-10	0.00E+00	3.60E-09	3.43E-09	1.76E-10	0.00E+00	3.60E-09	1.03E-09	3.16E-11	0.00E+00	1.06E-09	3.89E-10	1.02E-11	0.00E+00	3.99E-10
6079	456878	3768603	3.462E-09	1.77E-10	0.00E+00	3.64E-09	3.46E-09	1.77E-10	0.00E+00	3.64E-09	1.04E-09	3.19E-11	0.00E+00	1.07E-09	3.93E-10	1.03E-11	0.00E+00	4.03E-10
6080	456874.1	3768594	3.499E-09	1.79E-10	0.00E+00	3.68E-09	3.50E-09	1.79E-10	0.00E+00	3.68E-09	1.05E-09	3.23E-11	0.00E+00	1.08E-09	3.97E-10	1.04E-11	0.00E+00	4.07E-10
6081	456870.3	3768585	3.537E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6082	456866.4	3768576	3.574E-09	1.83E-10	0.00E+00	3.76E-09	3.57E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.16E-10
6083	456862.6	3768567	3.612E-09	1.85E-10	0.00E+00	3.80E-09	3.61E-09	1.85E-10	0.00E+00	3.80E-09	1.08E-09	3.33E-11	0.00E+00	1.12E-09	4.10E-10	1.07E-11	0.00E+00	4.21E-10
6084	456858.7	3768557	3.651E-09	1.87E-10	0.00E+00	3.84E-09	3.65E-09	1.87E-10	0.00E+00	3.84E-09	1.09E-09	3.37E-11	0.00E+00	1.13E-09	4.14E-10	1.09E-11	0.00E+00	4.25E-10
6085	456854.9	3768548	3.69E-09	1.89E-10	0.00E+00	3.88E-09	3.69E-09	1.89E-10	0.00E+00	3.88E-09	1.11E-09	3.40E-11	0.00E+00	1.14E-09	4.19E-10	1.10E-11	0.00E+00	4.30E-10
6086	456851	3768539	3.729E-09	1.91E-10	0.00E+00	3.92E-09	3.73E-09	1.91E-10	0.00E+00	3.92E-09	1.12E-09	3.44E-11	0.00E+00	1.15E-09	4.23E-10	1.11E-11	0.00E+00	4.34E-10
6087	456847.1	3768530	3.77E-09	1.93E-10	0.00E+00	3.96E-09	3.77E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.47E-11	0.00E+00	1.16E-09	4.28E-10	1.12E-11	0.00E+00	4.39E-10
6088	456843.3	3768521	3.811E-09	1.95E-10	0.00E+00	4.01E-09	3.81E-09	1.95E-10	0.00E+00	4.01E-09	1.14E-09	3.51E-11	0.00E+00	1.18E-09	4.32E-10	1.13E-11	0.00E+00	4.44E-10
6089	456839.4	3768512	3.853E-09	1.98E-10	0.00E+00	4.05E-09	3.85E-09	1.98E-10	0.00E+00	4.05E-09	1.15E-09	3.55E-11	0.00E+00	1.19E-09	4.37E-10	1.15E-11	0.00E+00	4.49E-10
6090	456835.6	3768502	3.895E-09	2.00E-10	0.00E+00	4.09E-09	3.89E-09	2.00E-10	0.00E+00	4.09E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.53E-10
6091	456831.7	3768493	3.937E-09	2.02E-10	0.00E+00	4.14E-09	3.94E-09	2.02E-10	0.00E+00	4.14E-09	1.18E-09	3.63E-11	0.00E+00	1.22E-09	4.47E-10	1.17E-11	0.00E+00	4.58E-10
6092	456827.9	3768484	3.981E-09	2.04E-10	0.00E+00	4.18E-09	3.98E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.67E-11	0.00E+00	1.23E-09	4.52E-10	1.18E-11	0.00E+00	4.63E-10
6093	456824	3768475	4.025E-09	2.06E-10	0.00E+00	4.23E-09	4.02E-09	2.06E-10	0.00E+00	4.23E-09	1.21E-09	3.71E-11	0.00E+00	1.24E-09	4.57E-10	1.20E-11	0.00E+00	4.69E-10
6094	456820.1	3768466	4.07E-09	2.09E-10	0.00E+00	4.28E-09	4.07E-09	2.09E-10	0.00E+00	4.28E-09	1.22E-09	3.75E-11	0.00E+00	1.26E-09	4.62E-10	1.21E-11	0.00E+00	4.74E-10
6095	456816.3	3768457	4.115E-09	2.11E-10	0.00E+00	4.33E-09	4.11E-09	2.11E-10	0.00E+00	4.33E-09	1.23E-09	3.79E-11	0.00E+00	1.27E-09	4.67E-10	1.22E-11	0.00E+00	4.79E-10
6096	456800.9	3768420	4.303E-09	2.21E-10	0.00E+00	4.52E-09	4.30E-09	2.21E-10	0.00E+00	4.52E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.88E-10	1.28E-11	0.00E+00	5.01E-10
6097	456797	3768411	4.352E-09	2.23E-10	0.00E+00	4.58E-09	4.35E-09	2.23E-10	0.00E+00	4.58E-09	1.30E-09	4.01E-11	0.00E+00	1.34E-09	4.94E-10	1.30E-11	0.00E+00	5.07E-10
6098	456793.1	3768402	4.401E-09	2.26E-10	0.00E+00	4.63E-09	4.40E-09	2.26E-10	0.00E+00	4.63E-09	1.32E-09	4.06E-11	0.00E+00	1.36E-09	4.99E-10	1.31E-11	0.00E+00	5.12E-10
6099	456789.3	3768393	4.451E-09	2.28E-10	0.00E+00	4.68E-09	4.45E-09	2.28E-10	0.00E+00	4.68E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.05E-10	1.32E-11	0.00E+00	5.18E-10
6100	456785.4	3768383	4.501E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.11E-10	1.34E-11	0.00E+00	5.24E-10
6101	456781.6	3768374	4.552E-09	2.33E-10	0.00E+00	4.79E-09	4.55E-09	2.33E-10	0.00E+00	4.79E-09	1.36E-09	4.20E-11	0.00E+00	1.41E-09	5.16E-10	1.35E-11	0.00E+00	5.30E-10
6102	456777.7	3768365	4.604E-09	2.36E-10	0.00E+00	4.84E-09	4.60E-09	2.36E-10	0.00E+00	4.84E-09	1.38E-09	4.24E-11	0.00E+00	1.42E-09	5.22E-10	1.37E-11	0.00E+00	5.36E-10
6103	456773.9	3768356	4.656E-09	2.39E-10	0.00E+00	4.90E-09	4.66E-09	2.39E-10	0.00E+00	4.90E-09	1.39E-09	4.29E-11	0.00E+00	1.44E-09	5.28E-10	1.39E-11	0.00E+00	5.42E-10
6104	456770	3768347	4.709E-09	2.41E-10	0.00E+00	4.95E-09	4.71E-09	2.41E-10	0.00E+00	4.95E-09	1.41E-09	4.34E-11	0.00E+00	1.45E-09	5.34E-10	1.40E-11	0.00E+00	5.48E-10
6105	456766.1	3768338	4.761E-09	2.44E-10	0.00E+00	5.01E-09	4.76E-09	2.44E-10	0.00E+00	5.01E-09	1.43E-09	4.39E-11	0.00E+00	1.47E-09	5.40E-10	1.42E-11	0.00E+00	5.54E-10
6106	456762.3	3768328	4.814E-09	2.47E-10	0.00E+00	5.06E-09	4.81E-09	2.47E-10	0.00E+00	5.06E-09	1.44E-09	4.44E-11	0.00E+00	1.49E-09	5.46E-10	1.43E-11	0.00E+00	5.61E-10
6107	456758.4	3768319	4.867E-09	2.50E-10	0.00E+00	5.12E-09	4.87E-09	2.50E-10	0.00E+00	5.12E-09	1.46E-09	4.49E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.67E-10
6108	456754.6	3768310	4.921E-09	2.52E-10	0.00E+00	5.17E-09	4.92E-09	2.52E-10	0.00E+00	5.17E-09	1.47E-09	4.54E-11	0.00E+00	1.52E-09	5.58E-10	1.46E-11	0.00E+00	5.73E-10
6109	456750.7	3768301	4.975E-09	2.55E-10	0.00E+00	5.23E-09	4.98E-09	2.55E-10	0.00E+00	5.23E-09	1.49E-09	4.59E-11	0.00E+00	1.54E-09	5.64E-10	1.48E-11	0.00E+00	5.79E-10
6110	456746.8	3768292	5.029E-09	2.58E-10	0.00E+00	5.29E-09	5.03E-09	2.58E-10	0.00E+00	5.29E-09	1.51E-09	4.64E-11	0.00E+00	1.55E-09	5.71E-10	1.50E-11	0.00E+00	5.86E-10
6111	456743	3768283	5.083E-09	2.61E-10	0.00E+00	5.34E-09	5.08E-09	2.61E-10	0.00E+00	5.34E-09	1.52E-09	4.69E-11	0.00E+00	1.57E-09	5.77E-10	1.51E-11	0.00E+00	5.92E-10
6112	456739.1	3768273	5.137E-09	2.63E-10	0.00E+00	5.40E-09	5.14E-09	2.63E-10	0.00E+00	5.40E-09	1.54E-09	4.74E-11	0.00E+00	1.59E-09	5.83E-10	1.53E-11	0.00E+00	5.98E-10
6113	456735.3	3768264	5.19E-09	2.66E-10	0.00E+00	5.46E-09	5.19E-09	2.66E-10	0.00E+00	5.46E-09	1.55E-09	4.78E-11	0.00E+00	1.60E-09	5.89E-10	1.54E-11	0.00E+00	6.04E-10
6114	456731.4	3768255	5.243E-09	2.69E-10	0.00E+00	5.51E-09	5.24E-09	2.69E-10	0.00E+00	5.51E-09	1.57E-09	4.83E-11	0.00E+00	1.62E-09	5.95E-10	1.56E-11	0.00E+00	6.10E-10
6115	456727.6	3768246	5.297E-09	2.72E-10	0.00E+00	5.57E-09	5.30E-09	2.72E-10	0.00E+00	5.57E-09	1.59E-09	4.88E-11	0.00E+00	1.64E-09	6.01E-10	1.58E-11	0.00E+00	6.17E-10
6116	457333.9	3768832	3.538E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6117	457343.9	3768832	3.57E-09	1.83E-10	0.00E+00	3.75E-09	3.57E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.05E-10	1.06E-11	0.00E+00	4.16E-10
6118	457353.9	3768832	3.604E-09	1.85E-10	0.00E+00	3.79E-09	3.60E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.20E-10
6119	457363.8	3768832	3.637E-09	1.86E-10	0.00E+00	3.82E-09	3.64E-09	1.86E-10	0.00E+00	3.82E-09	1.09E-09	3.35E-11	0.00E+00	1.12E-09	4.13E-10	1.08E-11	0.00E+00	4.24E-10
6120	457373.8	3768832	3.671E-09	1.88E-10	0.00E+00	3.86E-09	3.67E-09	1.88E-10	0.00E+00	3.86E-09	1.10E-09	3.38E-11	0.00E+00	1.13E-09	4.17E-10	1.09E-11	0.00E+00	4.27E-10
6121	457383.8	3768832	3.706E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.14E-09	4.20E-10	1.10E-11	0.00E+00	4.32E-10
6122	457393.7	3768832	3.743E-09	1.92E-10	0.00E+00	3.93E-09	3.74E-09	1.92E-10	0.00E+00	3.93E-09	1.12E-09	3.45E-11	0.00E+00	1.16E-09	4.25E-10	1.11E-11	0.00E+00	4.36E-10
6123	457403.7	3768832	3.782E-09	1.94E-10	0.00E+00	3.98E-09	3.78E-09	1.94E-10	0.00E+00	3.98E-09	1.13E-09	3.49E-11	0.00E+00	1.17E-09	4.29E-10	1.13E-11	0.00E+00	4.40E-10
6124	457413.7	3768832	3.821E-09	1.96E-10	0.00E+00	4.02E-09	3.82E-09	1.96E-10	0.00E+00	4.02E-09	1.14E-09	3.52E-11	0.00E+00	1.18E-09	4.34E-10	1.14E-11	0.00E+00	4.45E-10
6125	457423.7	3768832	3.86E-09	1.98E-10	0.00E+00	4.06E-09	3.86E-09	1.98E-10	0.00E+00	4.06E-09	1.16E-09	3.56E-11	0.00E+00	1.19E-09	4.38E-10	1.15E-11	0.00E+00	4.49E-10
6126	457433.6	3768832	3.895E-09	2.00E-10	0.00E+00	4.09E-09	3.90E-09	2.00E-10	0.00E+00	4.09E-09	1.17E-09	3.59E-11	0.00E+00	1.20E-09	4.42E-10	1.16E-11	0.00E+00	4.53E-10
6127	457443.6	3768832	3.931E-09	2.02E-10	0.00E+00	4.13E-09	3.93E-09	2.02E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
6128	457453.6	3768832	3.972E-09	2.04E-10	0.00E+00	4.18E-09	3.97E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.66E-11	0.00E+00	1.23E-09	4.51E-10	1.18E-11	0.00E+00	4.62E-10
6129	457463.5	3768832	4.018E-09	2.06E-10	0.00E+00	4.22E-09	4.02E-09	2.06E-10	0.00E+00	4.22E-09	1.20E-09	3.70E-11	0.00E+00	1.24E-09	4.56E-10	1.20E-11	0.00E+00	4.68E-10
6130	457473.5	3768832	4.066E-09	2.08E-10	0.00E+00	4.27E-09	4.07E-09	2.08E-10	0.00E+00	4.27E-09	1.22E-09	3.75E-11	0.00E+00	1.26E-09	4.61E-10	1.21E-11	0.00E+00	4.73E-10
6131	457483.5	3768832	4.115E-09	2.11E-10	0.00E+00	4.33E-09	4.12E-09	2.11E-10	0.00E+00	4.33E-09	1.23E-09	3.79E-11	0.00E+00	1.27E-09	4.67E-10	1.22E-11	0.00E+00	4.79E-10
6132	457493.4	3768832	4.167E-09	2.14E-10	0.00E+00	4.38E-09	4.17E-09	2.14E-10	0.00E+00	4.38E-09	1.25E-09	3.84E-11	0.00E+00	1.29E-09	4.73E-10	1.24E-11	0.00E+00	4.85E-10
6133	457503.4	3768832	4.22E-09	2.16E-10	0.00E+00	4.44E-09	4.22E-09	2.16E-10	0.00E+00	4.44E-09	1.26E-09	3.89E-11	0.00E+00	1.30E-09	4.79E-10	1.26E-11	0.00E+00	4.91E-10
6134	457513.4	3768832	4.275E-09	2.19E-10	0.00E+00	4.49E-09	4.27E-09	2.19E-10	0.00E+00	4.49E-09	1.28E-09	3.94E-11	0.00E+00	1.32E-09	4.85E-10	1.27E-11	0.00E+00	4.98E-10
6135	457523.4	3768832	4.33E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.91E-10	1.29E-11	0.00E+00	5.04E-10
6136	457533.3	3768832	4.387E-09	2.25E-10	0.00E+00	4.61E-09	4.39E-09	2.25E-10	0.00E+00	4.61E-09	1.31E-09	4.04E-11	0.00E+00	1.35E-09	4.98E-10	1.31E-11	0.00E+00	5.11E-10
6137	457543.3	3768832	4.444E-09	2.28E-10	0.00E+00	4.67E-09	4.44E-09	2.28E-10	0.00E+00	4.67E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.04E-10	1.32E-11	0.00E+00	5.17E-10
6138	457553.3	3768832	4.497E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.10E-10	1.34E-11	0.00E+00	5.24E-10
6139	457563.2	3768832	4.553E-09	2.33E-10	0.00E+00	4.79E-09	4.55E-09	2.33E-10	0.00E+00	4.79E-09	1.36E-09	4.20E-11	0.00E+00	1.41E-09	5.17E-10	1.35E-11	0.00E+00	5.30E-10
6140	457573.2	3768832	4.614E-09	2.37E-10	0.00E+00	4.85E-09	4.61E-09	2.37E-10	0.00E+00	4.85E-09	1.38E-09	4.25E-11	0.00E+00	1.42E-09	5.23E-10	1.37E-11	0.00E+00	5.37E-10
6141	457583.2	3768832	4.685E-09	2.40E-10	0.00E+00	4.92E-09	4.68E-09	2.40E-10	0.00E+00	4.92E-09	1.40E-09	4.32E-11	0.00E+00	1.45E-09	5.32E-10	1.39E-11	0.00E+00	5.45E-10
6142	457593.2	3768832	4.758E-09	2.44E-10	0.00E+00	5.00E-09	4.76E-09	2.44E-10	0.00E+00	5.00E-09	1.43E-09	4.39E-11	0.00E+00	1.47E-09	5.40E-10	1.42E-11	0.00E+00	5.54E-10
6143	457603.1	3768832	4.834E-09	2.48E-10	0.00E+00	5.08E-09	4.83E-09	2.48E-10	0.00E+00	5.08E-09	1.45E-09	4.46E-11	0.00E+00	1.49E-09	5.48E-10	1.44E-11	0.00E+00	5.63E-10
6144	457613.1	3768832	4.914E-09	2.52E-10	0.00E+00	5.17E-09	4.91E-09	2.52E-10	0.00E+00	5.17E-09	1.47E-09	4.53E-11	0.00E+00	1.52E-09	5.57E-10	1.46E-11	0.00E+00	5.72E-10
6145	457623.1	3768832	4.996E-09	2.56E-10	0.00E+00	5.25E-09	5.00E-09	2.56E-10	0.00E+00	5.25E-09	1.50E-09	4.61E-11	0.00E+00	1.54E-09	5.67E-10	1.49E-11	0.00E+00	5.82E-10
6146	457633	3768832	5.081E-09	2.60E-10	0.00E+00	5.34E-09	5.08E-09	2.60E-10	0.00E+00	5.34E-09	1.52E-09	4.68E-11	0.00E+00	1.57E-09	5.76E-10	1.51E-11	0.00E+00	5.92E-10
6147	457643	3768832	5.166E-09	2.65E-10	0.00E+00	5.43E-09	5.17E-09	2.65E-10	0.00E+00	5.43E-09	1.55E-09	4.76E-11	0.00E+00	1.60E-09	5.86E-10	1.54E-11	0.00E+00	6.02E-10
6148	457653	3768832	5.255E-09	2.69E-10	0.00E+00	5.52E-09	5.25E-09	2.69E-10	0.00E+00	5.52E-09	1.57E-09	4.84E-11	0.00E+00	1.62E-09	5.96E-10	1.56E-11	0.00E+00	6.12E-10
6149	457662.9	3768832	5.348E-09	2.74E-10	0.00E+00	5.62E-09	5.35E-09	2.74E-10	0.00E+00	5.62E-09	1.60E-09	4.93E-11	0.00E+00	1.65E-09	6.07E-10	1.59E-11	0.00E+00	6.23E-10
6150	457672.9	3768832	5.447E-09	2.79E-10	0.00E+00	5.73E-09	5.45E-09	2.79E-10	0.00E+00	5.73E-09	1.63E-09	5.02E-11	0.00E+00	1.68E-09	6.18E-10	1.62E-11	0.00E+00	6.34E-10
6151	457682.9	3768832	5.55E-09	2.85E-10	0.00E+00	5.83E-09	5.55E-09	2.85E-10	0.00E+00	5.83E-09	1.66E-09	5.12E-11	0.00E+00	1.71E-09	6.30E-10	1.65E-11	0.00E+00	6.46E-10
6152	457692.9	3768832	5.651E-09	2.90E-10	0.00E+00	5.94E-09	5.65E-09	2.90E-10	0.00E+00	5.94E-09	1.69E-09	5.21E-11	0.00E+00	1.74E-09	6.41E-10	1.68E-11	0.00E+00	6.58E-10
6153	457702.8	3768832	5.743E-09	2.94E-10	0.00E+00	6.04E-09	5.74E-09	2.94E-10	0.00E+00	6.04E-09	1.72E-09	5.29E-11	0.00E+00	1.77E-09	6.52E-10	1.71E-11	0.00E+00	6.69E-10
6154	457296.4	3768861	3.212E-09	1.65E-10	0.00E+00	3.38E-09	3.21E-09	1.65E-10	0.00E+00	3.38E-09	9.62E-10	2.96E-11	0.00E+00	9.92E-10	3.64E-10	9.56E-12	0.00E+00	3.74E-10
6155	457287.2	3768857	3.214E-09	1.65E-10	0.00E+00	3.38E-09	3.21E-09	1.65E-10	0.00E+00	3.38E-09	9.63E-10	2.96E-11	0.00E+00	9.92E-10	3.65E-10	9.56E-12	0.00E+00	3.74E-10
6156	457278	3768853	3.217E-09	1.65E-10	0.00E+00	3.38E-09	3.22E-09	1.65E-10	0.00E+00	3.38E-09	9.64E-10	2.97E-11	0.00E+00	9.93E-10	3.65E-10	9.57E-12	0.00E+00	3.75E-10
6157	457268.7	3768849	3.22E-09	1.65E-10	0.00E+00	3.39E-09	3.22E-09	1.65E-10	0.00E+00	3.39E-09	9.64E-10	2.97E-11	0.00E+00	9.94E-10	3.65E-10	9.58E-12	0.00E+00	3.75E-10

6158	457259.5	3768846	3.225E-09	1.65E-10	0.00E+00	3.39E-09	3.22E-09	1.65E-10	0.00E+00	3.39E-09	9.66E-10	2.97E-11	0.00E+00	9.96E-10	3.66E-10	9.60E-12	0.00E+00	3.75E-10
6159	457250.3	3768842	3.23E-09	1.66E-10	0.00E+00	3.40E-09	3.23E-09	1.66E-10	0.00E+00	3.40E-09	9.67E-10	2.98E-11	0.00E+00	9.97E-10	3.66E-10	9.61E-12	0.00E+00	3.76E-10
6160	457241.1	3768838	3.236E-09	1.66E-10	0.00E+00	3.40E-09	3.24E-09	1.66E-10	0.00E+00	3.40E-09	9.69E-10	2.98E-11	0.00E+00	9.99E-10	3.67E-10	9.63E-12	0.00E+00	3.77E-10
6161	457231.9	3768834	3.24E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.70E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.64E-12	0.00E+00	3.77E-10
6162	457222.7	3768831	3.244E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.72E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.65E-12	0.00E+00	3.78E-10
6163	457213.5	3768827	3.248E-09	1.67E-10	0.00E+00	3.41E-09	3.25E-09	1.67E-10	0.00E+00	3.41E-09	9.73E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.66E-12	0.00E+00	3.78E-10
6164	457204.3	3768823	3.25E-09	1.67E-10	0.00E+00	3.42E-09	3.25E-09	1.67E-10	0.00E+00	3.42E-09	9.73E-10	3.00E-11	0.00E+00	1.00E-09	3.69E-10	9.67E-12	0.00E+00	3.78E-10
6165	457195.1	3768819	3.253E-09	1.67E-10	0.00E+00	3.42E-09	3.25E-09	1.67E-10	0.00E+00	3.42E-09	9.74E-10	3.00E-11	0.00E+00	1.00E-09	3.69E-10	9.68E-12	0.00E+00	3.79E-10
6166	457185.9	3768815	3.256E-09	1.67E-10	0.00E+00	3.42E-09	3.26E-09	1.67E-10	0.00E+00	3.42E-09	9.75E-10	3.00E-11	0.00E+00	1.01E-09	3.69E-10	9.69E-12	0.00E+00	3.79E-10
6167	457176.7	3768812	3.26E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.76E-10	3.00E-11	0.00E+00	1.01E-09	3.70E-10	9.70E-12	0.00E+00	3.80E-10
6168	457167.5	3768808	3.262E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.77E-10	3.01E-11	0.00E+00	1.01E-09	3.70E-10	9.71E-12	0.00E+00	3.80E-10
6169	457158.3	3768804	3.264E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.78E-10	3.01E-11	0.00E+00	1.01E-09	3.70E-10	9.71E-12	0.00E+00	3.80E-10
6170	457149.1	3768800	3.289E-09	1.69E-10	0.00E+00	3.46E-09	3.29E-09	1.69E-10	0.00E+00	3.46E-09	9.85E-10	3.03E-11	0.00E+00	1.02E-09	3.73E-10	9.79E-12	0.00E+00	3.83E-10
6171	457139.9	3768796	3.286E-09	1.68E-10	0.00E+00	3.45E-09	3.29E-09	1.68E-10	0.00E+00	3.45E-09	9.84E-10	3.03E-11	0.00E+00	1.01E-09	3.73E-10	9.78E-12	0.00E+00	3.83E-10
6172	457130.7	3768793	3.284E-09	1.68E-10	0.00E+00	3.45E-09	3.28E-09	1.68E-10	0.00E+00	3.45E-09	9.83E-10	3.03E-11	0.00E+00	1.01E-09	3.73E-10	9.77E-12	0.00E+00	3.82E-10
6173	457121.5	3768789	3.281E-09	1.68E-10	0.00E+00	3.45E-09	3.28E-09	1.68E-10	0.00E+00	3.45E-09	9.83E-10	3.02E-11	0.00E+00	1.01E-09	3.72E-10	9.76E-12	0.00E+00	3.82E-10
6174	457112.3	3768785	3.277E-09	1.68E-10	0.00E+00	3.45E-09	3.28E-09	1.68E-10	0.00E+00	3.45E-09	9.82E-10	3.02E-11	0.00E+00	1.01E-09	3.72E-10	9.75E-12	0.00E+00	3.82E-10
6175	457103.1	3768781	3.273E-09	1.68E-10	0.00E+00	3.44E-09	3.27E-09	1.68E-10	0.00E+00	3.44E-09	9.80E-10	3.02E-11	0.00E+00	1.01E-09	3.71E-10	9.74E-12	0.00E+00	3.81E-10
6176	457093.9	3768777	3.269E-09	1.68E-10	0.00E+00	3.44E-09	3.27E-09	1.68E-10	0.00E+00	3.44E-09	9.79E-10	3.01E-11	0.00E+00	1.01E-09	3.71E-10	9.73E-12	0.00E+00	3.81E-10
6177	457084.7	3768774	3.263E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.77E-10	3.01E-11	0.00E+00	1.01E-09	3.70E-10	9.71E-12	0.00E+00	3.80E-10
6178	457075.5	3768770	3.258E-09	1.67E-10	0.00E+00	3.42E-09	3.26E-09	1.67E-10	0.00E+00	3.42E-09	9.76E-10	3.00E-11	0.00E+00	1.01E-09	3.70E-10	9.69E-12	0.00E+00	3.79E-10
6179	457066.3	3768766	3.252E-09	1.67E-10	0.00E+00	3.42E-09	3.25E-09	1.67E-10	0.00E+00	3.42E-09	9.74E-10	3.00E-11	0.00E+00	1.00E-09	3.69E-10	9.68E-12	0.00E+00	3.79E-10
6180	457057.1	3768762	3.245E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.72E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.66E-12	0.00E+00	3.78E-10
6181	457047.9	3768759	3.237E-09	1.66E-10	0.00E+00	3.40E-09	3.24E-09	1.66E-10	0.00E+00	3.40E-09	9.69E-10	2.98E-11	0.00E+00	9.99E-10	3.67E-10	9.63E-12	0.00E+00	3.77E-10
6182	457038.6	3768755	3.228E-09	1.65E-10	0.00E+00	3.39E-09	3.23E-09	1.65E-10	0.00E+00	3.39E-09	9.67E-10	2.98E-11	0.00E+00	9.96E-10	3.66E-10	9.60E-12	0.00E+00	3.76E-10
6183	457029.4	3768751	3.218E-09	1.65E-10	0.00E+00	3.38E-09	3.22E-09	1.65E-10	0.00E+00	3.38E-09	9.64E-10	2.97E-11	0.00E+00	9.94E-10	3.65E-10	9.58E-12	0.00E+00	3.75E-10
6184	457020.2	3768747	3.208E-09	1.64E-10	0.00E+00	3.37E-09	3.21E-09	1.64E-10	0.00E+00	3.37E-09	9.61E-10	2.96E-11	0.00E+00	9.91E-10	3.64E-10	9.55E-12	0.00E+00	3.74E-10
6185	457011	3768743	3.198E-09	1.64E-10	0.00E+00	3.36E-09	3.20E-09	1.64E-10	0.00E+00	3.36E-09	9.58E-10	2.95E-11	0.00E+00	9.87E-10	3.63E-10	9.52E-12	0.00E+00	3.72E-10
6186	457001.8	3768740	3.187E-09	1.63E-10	0.00E+00	3.35E-09	3.19E-09	1.63E-10	0.00E+00	3.35E-09	9.54E-10	2.94E-11	0.00E+00	9.84E-10	3.62E-10	9.48E-12	0.00E+00	3.71E-10
6187	456992.6	3768736	3.175E-09	1.63E-10	0.00E+00	3.34E-09	3.18E-09	1.63E-10	0.00E+00	3.34E-09	9.51E-10	2.93E-11	0.00E+00	9.80E-10	3.60E-10	9.45E-12	0.00E+00	3.70E-10
6188	456983.4	3768732	3.163E-09	1.62E-10	0.00E+00	3.33E-09	3.16E-09	1.62E-10	0.00E+00	3.33E-09	9.47E-10	2.92E-11	0.00E+00	9.77E-10	3.59E-10	9.41E-12	0.00E+00	3.68E-10
6189	456974.2	3768728	3.15E-09	1.62E-10	0.00E+00	3.31E-09	3.15E-09	1.62E-10	0.00E+00	3.31E-09	9.44E-10	2.90E-11	0.00E+00	9.73E-10	3.57E-10	9.37E-12	0.00E+00	3.67E-10
6190	456965	3768724	3.137E-09	1.61E-10	0.00E+00	3.30E-09	3.14E-09	1.61E-10	0.00E+00	3.30E-09	9.40E-10	2.89E-11	0.00E+00	9.68E-10	3.56E-10	9.33E-12	0.00E+00	3.65E-10
6191	456955.8	3768721	3.123E-09	1.60E-10	0.00E+00	3.28E-09	3.12E-09	1.60E-10	0.00E+00	3.28E-09	9.35E-10	2.88E-11	0.00E+00	9.64E-10	3.54E-10	9.29E-12	0.00E+00	3.64E-10
6192	456946.6	3768717	3.109E-09	1.59E-10	0.00E+00	3.27E-09	3.11E-09	1.59E-10	0.00E+00	3.27E-09	9.31E-10	2.87E-11	0.00E+00	9.60E-10	3.53E-10	9.25E-12	0.00E+00	3.62E-10
6193	456937.4	3768713	3.094E-09	1.59E-10	0.00E+00	3.25E-09	3.09E-09	1.59E-10	0.00E+00	3.25E-09	9.27E-10	2.85E-11	0.00E+00	9.55E-10	3.51E-10	9.21E-12	0.00E+00	3.60E-10
6194	456928.2	3768709	3.079E-09	1.58E-10	0.00E+00	3.24E-09	3.08E-09	1.58E-10	0.00E+00	3.24E-09	9.22E-10	2.84E-11	0.00E+00	9.51E-10	3.49E-10	9.16E-12	0.00E+00	3.59E-10
6195	456891.4	3768694	3.016E-09	1.55E-10	0.00E+00	3.17E-09	3.02E-09	1.55E-10	0.00E+00	3.17E-09	9.03E-10	2.78E-11	0.00E+00	9.31E-10	3.42E-10	8.97E-12	0.00E+00	3.51E-10
6196	456882.2	3768690	3E-09	1.54E-10	0.00E+00	3.15E-09	3.00E-09	1.54E-10	0.00E+00	3.15E-09	8.98E-10	2.77E-11	0.00E+00	9.26E-10	3.40E-10	8.93E-12	0.00E+00	3.49E-10
6197	456869.1	3768677	3.013E-09	1.54E-10	0.00E+00	3.17E-09	3.01E-09	1.54E-10	0.00E+00	3.17E-09	9.03E-10	2.78E-11	0.00E+00	9.30E-10	3.42E-10	8.97E-12	0.00E+00	3.51E-10
6198	456865.3	3768668	3.044E-09	1.56E-10	0.00E+00	3.20E-09	3.04E-09	1.56E-10	0.00E+00	3.20E-09	9.12E-10	2.81E-11	0.00E+00	9.40E-10	3.45E-10	9.06E-12	0.00E+00	3.54E-10
6199	456861.4	3768659	3.074E-09	1.58E-10	0.00E+00	3.23E-09	3.07E-09	1.58E-10	0.00E+00	3.23E-09	9.21E-10	2.83E-11	0.00E+00	9.49E-10	3.49E-10	9.15E-12	0.00E+00	3.58E-10
6200	456857.5	3768650	3.105E-09	1.59E-10	0.00E+00	3.26E-09	3.10E-09	1.59E-10	0.00E+00	3.26E-09	9.30E-10	2.86E-11	0.00E+00	9.59E-10	3.52E-10	9.24E-12	0.00E+00	3.61E-10
6201	456853.7	3768641	3.136E-09	1.61E-10	0.00E+00	3.30E-09	3.14E-09	1.61E-10	0.00E+00	3.30E-09	9.39E-10	2.89E-11	0.00E+00	9.68E-10	3.56E-10	9.33E-12	0.00E+00	3.65E-10
6202	456849.8	3768632	3.167E-09	1.62E-10	0.00E+00	3.33E-09	3.17E-09	1.62E-10	0.00E+00	3.33E-09	9.49E-10	2.92E-11	0.00E+00	9.78E-10	3.59E-10	9.42E-12	0.00E+00	3.69E-10
6203	456845.9	3768622	3.199E-09	1.64E-10	0.00E+00	3.36E-09	3.20E-09	1.64E-10	0.00E+00	3.36E-09	9.58E-10	2.95E-11	0.00E+00	9.87E-10	3.63E-10	9.52E-12	0.00E+00	3.72E-10
6204	456842.1	3768613	3.231E-09	1.66E-10	0.00E+00	3.40E-09	3.23E-09	1.66E-10	0.00E+00	3.40E-09	9.68E-10	2.98E-11	0.00E+00	9.97E-10	3.67E-10	9.61E-12	0.00E+00	3.76E-10
6205	456838.2	3768604	3.263E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.77E-10	3.01E-11	0.00E+00	1.01E-09	3.70E-10	9.71E-12	0.00E+00	3.80E-10
6206	456834.4	3768595	3.296E-09	1.69E-10	0.00E+00	3.47E-09	3.30E-09	1.69E-10	0.00E+00	3.47E-09	9.87E-10	3.04E-11	0.00E+00	1.02E-09	3.74E-10	9.81E-12	0.00E+00	3.84E-10
6207	456830.5	3768586	3.33E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.97E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.91E-12	0.00E+00	3.88E-10
6208	456826.6	3768576	3.363E-09	1.72E-10	0.00E+00	3.54E-09	3.36E-09	1.72E-10	0.00E+00	3.54E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.82E-10	1.00E-11	0.00E+00	3.92E-10
6209	456822.8	3768567	3.397E-09	1.74E-10	0.00E+00	3.57E-09	3.40E-09	1.74E-10	0.00E+00	3.57E-09	1.02E-09	3.13E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.96E-10
6210	456818.9	3768558	3.431E-09	1.76E-10	0.00E+00	3.61E-09	3.43E-09	1.76E-10	0.00E+00	3.61E-09	1.03E-09	3.16E-11	0.00E+00	1.06E-09	3.89E-10	1.02E-11	0.00E+00	4.00E-10
6211	456815	3768549	3.467E-09	1.78E-10	0.00E+00	3.64E-09	3.47E-09	1.78E-10	0.00E+00	3.64E-09	1.04E-09	3.20E-11	0.00E+00	1.07E-09	3.93E-10	1.03E-11	0.00E+00	4.04E-10
6212	456811.2	3768540	3.503E-09	1.80E-10	0.00E+00	3.68E-09	3.50E-09	1.80E-10	0.00E+00	3.68E-09	1.05E-09	3.23E-11	0.00E+00	1.08E-09	3.97E-10	1.04E-11	0.00E+00	4.08E-10
6213	456807.3	3768531	3.538E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6214	456803.4	3768521	3.575E-09	1.83E-10	0.00E+00	3.76E-09	3.57E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.30E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.16E-10
6215	456799.6	3768512	3.612E-09	1.85E-10	0.00E+00	3.80E-09	3.61E-09	1.85E-10	0.00E+00	3.80E-09	1.08E-09	3.33E-11	0.00E+00	1.12E-09	4.10E-10	1.07E-11	0.00E+00	4.21E-10
6216	456795.7	3768503	3.65E-09	1.87E-10	0.00E+00	3.84E-09	3.65E-09	1.87E-10	0.00E+00	3.84E-09	1.09E-09	3.36E-11	0.00E+00	1.13E-09	4.14E-10	1.09E-11	0.00E+00	4.25E-10
6217	456791.9	3768494	3.688E-09	1.89E-10	0.00E+00	3.88E-09	3.69E-09	1.89E-10	0.00E+00	3.88E-09	1.10E-09	3.40E-11	0.00E+00	1.14E-09	4.18E-10	1.10E-11	0.00E+00	4.29E-10
6218	456788	3768485	3.726E-09	1.91E-10	0.00E+00	3.92E-09	3.73E-09	1.91E-10	0.00E+00	3.92E-09	1.12E-09	3.43E-11	0.00E+00	1.15E-09	4.23E-10	1.11E-11	0.00E+00	4.34E-10
6219	456784.1	3768476	3.765E-09	1.93E-10	0.00E+00	3.96E-09	3.77E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.47E-11	0.00E+00	1.16E-09	4.27E-10	1.12E-11	0.00E+00	4.38E-10
6220	456780.3	3768466	3.805E-09	1.95E-10	0.00E+00	4.00E-09	3.80E-09	1.95E-10	0.00E+00	4.00E-09	1.14E-09	3.51E-11	0.00E+00	1.17E-09	4.32E-10	1.13E-11	0.00E+00	4.43E-10
6221	456776.4	3768457	3.846E-09	1.97E-10	0.00E+00	4.04E-09	3.85E-09	1.97E-10	0.00E+00	4.04E-09	1.15E-09	3.54E-11	0.00E+00	1.19E-09	4.36E-10	1.14E-11	0.00E+00	4.48E-10
6222	456761	3768421	4.013E-09	2.06E-10	0.00E+00	4.22E-09	4.01E-09	2.06E-10	0.00E+00	4.22E-09	1.20E-09	3.70E-11	0.00E+00	1.24E-09	4.55E-10	1.19E-11	0.00E+00	4.67E-10
6223	456757.1	3768411	4.056E-09	2.08E-10	0.00E+00	4.26E-09	4.06E-09	2.08E-10	0.00E+00	4.26E-09	1.21E-09	3.74E-11	0.00E+00	1.25E-09	4.60E-10	1.21E-11	0.00E+00	4.72E-10
6224	456753.2	3768402	4.1E-09	2.10E-10	0.00E+00	4.31E-09	4.10E-09	2.10E-10	0.00E+00	4.31E-09	1.23E-09	3.78E-11	0.00E+00	1.27E-09	4.65E-10	1.22E-11	0.00E+00	4.77E-10
6225	456749.4	3768393	4.145E-09	2.12E-10	0.00E+00	4.36E-09	4.14E-09	2.12E-10	0.00E+00	4.36E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.83E-10
6226	456745.5	3768384	4.19E-09	2.15E-10	0.00E+00	4.40E-09	4.19E-09	2.15E-10	0.00E+00	4.40E-09	1.25E-09	3.86E-11	0.00E+00	1.29E-09	4.75E-10	1.25E-11	0.00E+00	4.88E-10
6227	456741.6	3768375	4.235E-09	2.17E-10	0.00E+00	4.45E-09	4.24E-09	2.17E-10	0.00E+00	4.45E-09	1.27E-09	3.90E-11	0.00E+00	1.31E-09	4.80E-10	1.26E-11	0.00E+00	4.93E-10
6228	456737.8	3768366	4.28E-09	2.19E-10	0.00E+00	4.50E-09	4.28E-09	2.19E-10	0.00E+00	4.50E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.86E-10	1.27E-11	0.00E+00	4.98E-10
6229	456733.9	3768356	4.326E-09	2.22E-10	0.00E+00	4.55E-09	4.33E-09	2.22E-10	0.00E+00	4.55E-09	1.30E-09	3.99E-11	0.00E+00	1.34E-09	4.91E-10	1.29E-11	0.00E+00	5.04E-10
6230	456730.1	3768347	4.372E-09	2.24E-10	0.00E+00	4.60E-09	4.37E-09	2.24E-10	0.00E+00	4.60E-09	1.31E-09	4.03E-11	0.00E+00	1.35E-09	4.96E-10	1.30E-11	0.00E+00	5.09E-10
6231	456726.2	3768338	4.418E-09	2.27E-10	0.00E+00	4.64E-09	4.42E-09	2.27E-10	0.00E+00	4.64E-09	1.32E-09	4.07E-11	0.00E+00	1.36E-09	5.01E-10	1.31E-11	0.00E+00	5.14E-10
6232	456722.3	3768329	4.465E-09	2.29E-10	0.00E+00	4.69E-09	4.47E-09	2.29E-10	0.00E+00	4.69E-09	1.34E-09	4.12E-11	0.00E+00	1.38E-09	5.07E-10	1.33E-11	0.00E+00	5.20E-10
6233	456718.5	3768320	4.513E-09	2.31E-10	0.00E+00	4.74E-09	4.51E-09	2.31E-10	0.00E+00	4.74E-09	1.35E-09	4.16E-11	0.00E+00	1.39E-09	5.12E-10	1.34E-11	0.00E+00	5.25E-10
6234	456714.6	3768310	4.56E-09	2.34E-10	0.00E+00	4.79E-09	4.56E-09	2.34E-10	0.00E+00	4.79E-09	1.37E-09	4.20E-11	0.00E+00	1.41E-09	5.17E-10	1.36E-11	0.00E+00	5.31E-10
6235	456710.7	3768301	4.607E-09	2.36E-10	0.00E+00	4.84E-09	4.61E-09	2.36E-10	0.00E+00	4.84E-09	1.38E-09	4.25E-11	0.00E+00	1.42E-09	5.23E-10	1.37E-11	0.00E+00	5.36E-10
6236	456706.9	3768292	4.654E-09	2.39E-10	0.00E+00	4.89E-09	4.65E-09	2.39E-10	0.00E+00	4.89E-09	1.39E-09	4.29E-11	0.00E+00	1.44E-09	5.28E-10	1.38E-11	0.00E+00	5.42E-10
6237	456703	3768283	4.7E-09	2.41E-10	0.00E+00	4.94E-09	4.70E-09	2.41E-10	0.00E+00	4.94E-09	1.41E-09	4.33E-11	0.00E+00	1.45E-09	5.33E-10	1.40E-11	0.00E+00	5.47E-10
6238	456699.2	3768274	4.748E-09	2.43E-10	0.00E+00	4.99E-09	4.75E-09	2.43E-10	0.00E+00	4.99E-09	1.42E-09	4.38E-11	0.00E+00	1.47E-09	5.39E-10	1.41E-11	0.00E+00	5.53E-10
6239	456695.3	3768265	4.795E-09	2.46E-10	0.00E+00	5.04E-09	4.80E-09	2.46E-10	0.00E+00	5.04E-09	1.44E-09	4.42E-11	0.00E+00	1.48E-09	5.44E-10	1.43E-11	0.00E+00	5.58E-10
6240	456691.4	3768255	4.843E-09	2.48E-10	0.00E+00	5.09E-09	4.84E-09	2.48E-10	0.00E+00	5.09E-09	1.45E-09	4.46E-11	0.00E+00	1.50E-09	5.49E-10	1.44E-11	0.00E+00	5.64E-10
6241	456687.6	3768246	4.89E-09	2.51E-10	0.00E+00	5.14E-09	4.89E-09	2.51E-10	0.00E+00	5.14E-09	1.46E-09	4.51E-11	0.00E+00	1.51E-09	5.55E-10	1.46E-11	0.00E+00	5.69E-10
6242	457333.9	3768872	3.223E-09	1.65E-10	0.00E+00	3.39E-09	3.22E-09	1.65E-10	0.00E+00	3.39E-09	9.65E-10	2.97E-11	0.00E+00	9.95E-10	3.66E-10	9.59E-12	0.00E+00	3.75E-10
6243	457343.9	3768872	3.25E-09	1.67E-10	0.00E+00	3.42E-09	3.25E-09	1.67E-10	0.00E+00	3.42E-09	9.74E-10	3.00E-11	0.00E+00	1.00E-09	3.69E-10	9.67E-12	0.00E+00	3.78E-10
6244	457353.9	3768872	3.279E-09	1.68E-10	0.00E+00	3.45E-09	3.28E-09	1.68E-10	0.00E+00	3.45E-09	9.82E-10	3.02E-11	0.00E+00	1.01E-09	3.72E-10	9.76E-12	0.00E+00	3.82E-10
6245	457363.9	3768872	3.307E-09	1.70E-10	0.00E+00	3.48E-09	3.31E-09	1.70E-10	0.00E+00	3.48E-09	9.90E-10	3.05E-11	0.00E+00	1.02E-09	3.75E-10	9.84E-12	0.00E+00	3.85E-10
6246	457373.8	3768872	3.334E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.98E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.92E-12	0.00E+00	3.88E-10
6247	457383.8	3768872	3.361E-09	1.72E-10	0.00E+00	3.53E-09	3.36E-09	1.72E-10	0.00E+00	3.53E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.81E-10	1.00E-11	0.00E+00	3.91E-10
6248	457393.8	3768872	3.391E-09	1.74E-10	0.00E+00	3.56E-09	3.39E-09	1.74E-10	0.00E+00	3.56E-09	1.02E-09	3.13E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.95E-10
6249	457403.7	3768872	3.424E-09	1.76E-10	0.00E+00	3.60E-09	3.42E-09	1.76E-10	0.00E+00	3.60E-09	1.03E-09	3.16E-11	0.00E+00	1.06E-09	3.88E-10	1.02E-11	0.00E+00	3.99E-10
6250	457413.7	3768872	3.457E-09	1.77E-10	0.00E+00	3.63E-09	3.46E-09	1.77E-10	0.00E+00	3.63E-09	1.04E-09	3.19E-11	0.00E+00	1.07E-09	3.92E-10	1.03E-11	0.00E+00	4.03E-10
6251	457423.7	3768872	3.492E-09	1.79E-10	0.00E+00	3.67E-09	3.49E-09	1.79E-10	0.00E+00	3.67E-09	1.05E-09	3.22E-11	0.00E+00	1.08E-09	3.96E-10	1.04E-11	0.00E+00	4.07E-10
6252	457433.6	3768872	3.527E-09	1.81E-10	0.00E+00	3.71E-09	3.53E-09	1.81E-10	0.00E+00	3.71E-09	1.06E-09	3.25E-11	0.00E+00	1.09E-09	4.00E-10	1.05E-11	0.00E+00	4.11E-10
6253	457443.6	3768872	3.564E-09	1.83E-10	0.00E+00	3.75E-09	3.56E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.15E-10
6254	457453.6	3768872	3.601E-09	1.85E-10	0.00E+00	3.79E-09	3.60E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.19E-10
6255	457463.6	3768872	3.636E-09	1.86E-10	0.00E+00	3.82E-09	3.64E-09	1.86E-10	0.00E+00	3.82E-09	1.09E-09	3.35E-11	0.00E+00	1.12E-09	4.12E-10	1.08E-11	0.00E+00	4.23E-10
6256	457473.5	3768872	3.672E-09	1.88E-10	0.00E+00	3.86E-09	3.67E-09	1.88E-10	0.00E+00	3.86E-09	1.10E-09	3.38E-11	0.00E+00	1.13E-09	4.17E-10	1.09E-11	0.00E+00	4.27E-10
6257	457483.5	3768872	3.71E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.15E-09	4.21E-10	1.10E-11	0.00E+00	4.32E-10
6258	457493.5	3768872	3.754E-09	1.92E-10	0.00E+00	3.95E-09	3.75E-09	1.92E-10	0.00E+00	3.95E-09	1.12E-09	3.46E-11	0.00E+00	1.16E-09	4.26E-10	1.12E-11	0.00E+00	4.37E-10
6259	457503.4	3768872	3.798E-09	1.95E-10	0.00E+00	3.99E-09	3.80E-09	1.95E-10	0.00E+00	3.99E-09	1.14E-09	3.50E-11	0.00E+00	1.17E-09	4.31E-10	1.13E-11	0.00E+00	4.42E-10
6260	457513.4	3768872	3.842E-09	1.97E-10	0.00E+00	4.04E-09	3.84E-09	1.97E-10	0.00E+00	4.04E-09	1.15E-09	3.54E-11	0.00E+00	1.19E-09	4.36E-10	1.14E-11	0.00E+00	4.47E-10
6261	457523.4	3768872	3.885E-09	1.99E-10	0.00E+00	4.08E-09	3.89E-09	1.99E-10	0.00E+00	4.08E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.52E-10
6262	457533.3	3768872	3.93E-09	2.01E-10	0.00E+00	4.13E-09	3.93E-09	2.01E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
6263	457543.3	3768872	3.977E-09	2.04E-10	0.00E+00	4.18E-09	3.98E-09	2.04E-10	0.00E+00	4.18E-09	1.19E-09	3.67E-11	0.00E+00	1.23E-09	4.51E-10	1.18E-11	0.00E+00	4.63E-10
6264	457553.3	3768872	4.029E-09	2.07E-10	0.00E+00	4.24E-09	4.03E-09	2.07E-10	0.00E+00	4.24E-09	1.21E-09	3.71E-11	0.00E+00	1.24E-09	4.57E-10	1.20E-11	0.00E+00	4.69E-10
6265	457563.3	3768872	4.084E-09	2.09E-10	0.00E+00	4.29E-09	4.08E-09	2.09E-10	0.00E+00	4.29E-09	1.22E-09	3.76E-11	0.00E+00	1.26E-09	4.63E-10	1.22E-11	0.00E+00	4.75E-10
6266	457573.2	3768872	4.138E-09	2.12E-10	0.00E+00	4.35E-09	4.14E-09	2.12E-10	0.00E+00	4.35E-09	1.24E-09	3.81E-11	0.00E+00	1.28E-09	4.69E-10	1.23E-11	0.00E+00	4.82E-10
6267	457583.2	3768872	4.19E-09	2.15E-10	0.00E+00	4.40E-09	4.19E-09	2.15E-10	0.00E+00	4.40E-09	1.25E-09	3.86E-11	0.00E+00	1.29E-09	4.75E-10	1.25E-11	0.00E+00	4.88E-10
6268	457593.2	3768872	4.244E-09	2.18E-10	0.00E+00	4.46E-09	4.24E-09	2.18E-10	0.00E+00	4.46E-09	1.27E-09	3.91E-11	0.00E+00	1.31E-09	4.81E-10	1.26E-11	0.00E+00	4.94E-10
6269	457603.1	3768872	4.302E-09	2.21E-10	0.00E+00	4.52E-09	4.30E-09	2.21E-10	0.00E+00	4.52E-09	1.29E-09	3.97E-11	0.00E+00	1.33E-09	4.88E-10	1.28E-11	0.00E+00	5.01E-10

6270	457613.1	3768872	4.366E-09	2.24E-10	0.00E+00	4.59E-09	4.37E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
6271	457623.1	3768872	4.433E-09	2.27E-10	0.00E+00	4.66E-09	4.43E-09	2.27E-10	0.00E+00	4.66E-09	1.33E-09	4.09E-11	0.00E+00	1.37E-09	5.03E-10	1.32E-11	0.00E+00	5.16E-10
6272	457633.1	3768872	4.499E-09	2.31E-10	0.00E+00	4.73E-09	4.50E-09	2.31E-10	0.00E+00	4.73E-09	1.35E-09	4.15E-11	0.00E+00	1.39E-09	5.10E-10	1.34E-11	0.00E+00	5.24E-10
6273	457643	3768872	4.564E-09	2.34E-10	0.00E+00	4.80E-09	4.56E-09	2.34E-10	0.00E+00	4.80E-09	1.37E-09	4.21E-11	0.00E+00	1.41E-09	5.18E-10	1.36E-11	0.00E+00	5.31E-10
6274	457653	3768872	4.631E-09	2.37E-10	0.00E+00	4.87E-09	4.63E-09	2.37E-10	0.00E+00	4.87E-09	1.39E-09	4.27E-11	0.00E+00	1.43E-09	5.25E-10	1.38E-11	0.00E+00	5.39E-10
6275	457663	3768872	4.703E-09	2.41E-10	0.00E+00	4.94E-09	4.70E-09	2.41E-10	0.00E+00	4.94E-09	1.41E-09	4.34E-11	0.00E+00	1.45E-09	5.34E-10	1.40E-11	0.00E+00	5.48E-10
6276	457672.9	3768872	4.782E-09	2.45E-10	0.00E+00	5.03E-09	4.78E-09	2.45E-10	0.00E+00	5.03E-09	1.43E-09	4.41E-11	0.00E+00	1.48E-09	5.43E-10	1.42E-11	0.00E+00	5.57E-10
6277	457682.9	3768872	4.863E-09	2.49E-10	0.00E+00	5.11E-09	4.86E-09	2.49E-10	0.00E+00	5.11E-09	1.46E-09	4.48E-11	0.00E+00	1.50E-09	5.52E-10	1.45E-11	0.00E+00	5.66E-10
6278	457692.9	3768872	4.948E-09	2.54E-10	0.00E+00	5.20E-09	4.95E-09	2.54E-10	0.00E+00	5.20E-09	1.48E-09	4.56E-11	0.00E+00	1.53E-09	5.61E-10	1.47E-11	0.00E+00	5.76E-10
6279	457702.8	3768872	5.035E-09	2.58E-10	0.00E+00	5.29E-09	5.04E-09	2.58E-10	0.00E+00	5.29E-09	1.51E-09	4.64E-11	0.00E+00	1.55E-09	5.71E-10	1.50E-11	0.00E+00	5.86E-10
6280	457296.3	3768901	2.943E-09	1.51E-10	0.00E+00	3.09E-09	2.94E-09	1.51E-10	0.00E+00	3.09E-09	8.81E-10	2.71E-11	0.00E+00	9.09E-10	3.34E-10	8.76E-12	0.00E+00	3.43E-10
6281	457287.1	3768897	2.947E-09	1.51E-10	0.00E+00	3.10E-09	2.95E-09	1.51E-10	0.00E+00	3.10E-09	8.83E-10	2.72E-11	0.00E+00	9.10E-10	3.34E-10	8.77E-12	0.00E+00	3.43E-10
6282	457277.9	3768893	2.952E-09	1.51E-10	0.00E+00	3.10E-09	2.95E-09	1.51E-10	0.00E+00	3.10E-09	8.84E-10	2.72E-11	0.00E+00	9.11E-10	3.35E-10	8.78E-12	0.00E+00	3.44E-10
6283	457268.7	3768889	2.956E-09	1.52E-10	0.00E+00	3.11E-09	2.96E-09	1.52E-10	0.00E+00	3.11E-09	8.85E-10	2.73E-11	0.00E+00	9.13E-10	3.35E-10	8.80E-12	0.00E+00	3.44E-10
6284	457259.5	3768886	2.961E-09	1.52E-10	0.00E+00	3.11E-09	2.96E-09	1.52E-10	0.00E+00	3.11E-09	8.87E-10	2.73E-11	0.00E+00	9.14E-10	3.36E-10	8.81E-12	0.00E+00	3.45E-10
6285	457250.3	3768882	2.964E-09	1.52E-10	0.00E+00	3.12E-09	2.96E-09	1.52E-10	0.00E+00	3.12E-09	8.88E-10	2.73E-11	0.00E+00	9.15E-10	3.36E-10	8.82E-12	0.00E+00	3.45E-10
6286	457241.1	3768878	2.967E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.89E-10	2.73E-11	0.00E+00	9.16E-10	3.37E-10	8.83E-12	0.00E+00	3.45E-10
6287	457231.8	3768874	2.97E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.90E-10	2.74E-11	0.00E+00	9.17E-10	3.37E-10	8.84E-12	0.00E+00	3.46E-10
6288	457222.6	3768870	2.973E-09	1.52E-10	0.00E+00	3.13E-09	2.97E-09	1.52E-10	0.00E+00	3.13E-09	8.90E-10	2.74E-11	0.00E+00	9.18E-10	3.37E-10	8.85E-12	0.00E+00	3.46E-10
6289	457213.4	3768867	2.976E-09	1.53E-10	0.00E+00	3.13E-09	2.98E-09	1.53E-10	0.00E+00	3.13E-09	8.91E-10	2.74E-11	0.00E+00	9.19E-10	3.38E-10	8.86E-12	0.00E+00	3.46E-10
6290	457204.2	3768863	2.98E-09	1.53E-10	0.00E+00	3.13E-09	2.98E-09	1.53E-10	0.00E+00	3.13E-09	8.93E-10	2.75E-11	0.00E+00	9.20E-10	3.38E-10	8.87E-12	0.00E+00	3.47E-10
6291	457195	3768859	2.986E-09	1.53E-10	0.00E+00	3.14E-09	2.99E-09	1.53E-10	0.00E+00	3.14E-09	8.94E-10	2.75E-11	0.00E+00	9.22E-10	3.39E-10	8.88E-12	0.00E+00	3.48E-10
6292	457185.8	3768855	2.991E-09	1.53E-10	0.00E+00	3.14E-09	2.99E-09	1.53E-10	0.00E+00	3.14E-09	8.96E-10	2.76E-11	0.00E+00	9.23E-10	3.39E-10	8.90E-12	0.00E+00	3.48E-10
6293	457176.5	3768851	2.995E-09	1.54E-10	0.00E+00	3.15E-09	2.99E-09	1.54E-10	0.00E+00	3.15E-09	8.97E-10	2.76E-11	0.00E+00	9.25E-10	3.40E-10	8.91E-12	0.00E+00	3.49E-10
6294	457167.3	3768848	2.998E-09	1.54E-10	0.00E+00	3.15E-09	3.00E-09	1.54E-10	0.00E+00	3.15E-09	8.98E-10	2.76E-11	0.00E+00	9.25E-10	3.40E-10	8.92E-12	0.00E+00	3.49E-10
6295	457158.1	3768844	3E-09	1.54E-10	0.00E+00	3.15E-09	3.00E-09	1.54E-10	0.00E+00	3.15E-09	8.99E-10	2.77E-11	0.00E+00	9.26E-10	3.40E-10	8.93E-12	0.00E+00	3.49E-10
6296	457148.9	3768840	3.003E-09	1.54E-10	0.00E+00	3.16E-09	3.00E-09	1.54E-10	0.00E+00	3.16E-09	8.99E-10	2.77E-11	0.00E+00	9.27E-10	3.41E-10	8.94E-12	0.00E+00	3.50E-10
6297	457139.7	3768836	3.005E-09	1.54E-10	0.00E+00	3.16E-09	3.00E-09	1.54E-10	0.00E+00	3.16E-09	9.00E-10	2.77E-11	0.00E+00	9.28E-10	3.41E-10	8.94E-12	0.00E+00	3.50E-10
6298	457130.5	3768833	3.006E-09	1.54E-10	0.00E+00	3.16E-09	3.01E-09	1.54E-10	0.00E+00	3.16E-09	9.00E-10	2.77E-11	0.00E+00	9.28E-10	3.41E-10	8.94E-12	0.00E+00	3.50E-10
6299	457121.3	3768829	3.006E-09	1.54E-10	0.00E+00	3.16E-09	3.01E-09	1.54E-10	0.00E+00	3.16E-09	9.00E-10	2.77E-11	0.00E+00	9.28E-10	3.41E-10	8.95E-12	0.00E+00	3.50E-10
6300	457112	3768825	3.024E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.06E-10	2.79E-11	0.00E+00	9.34E-10	3.43E-10	9.00E-12	0.00E+00	3.52E-10
6301	457102.8	3768821	3.021E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.05E-10	2.79E-11	0.00E+00	9.33E-10	3.43E-10	8.99E-12	0.00E+00	3.52E-10
6302	457093.6	3768817	3.019E-09	1.55E-10	0.00E+00	3.17E-09	3.02E-09	1.55E-10	0.00E+00	3.17E-09	9.04E-10	2.78E-11	0.00E+00	9.32E-10	3.42E-10	8.98E-12	0.00E+00	3.51E-10
6303	457084.4	3768814	3.015E-09	1.55E-10	0.00E+00	3.17E-09	3.02E-09	1.55E-10	0.00E+00	3.17E-09	9.03E-10	2.78E-11	0.00E+00	9.31E-10	3.42E-10	8.97E-12	0.00E+00	3.51E-10
6304	457075.2	3768810	3.012E-09	1.54E-10	0.00E+00	3.17E-09	3.01E-09	1.54E-10	0.00E+00	3.17E-09	9.02E-10	2.78E-11	0.00E+00	9.30E-10	3.42E-10	8.96E-12	0.00E+00	3.51E-10
6305	457066	3768806	3.007E-09	1.54E-10	0.00E+00	3.16E-09	3.01E-09	1.54E-10	0.00E+00	3.16E-09	9.01E-10	2.77E-11	0.00E+00	9.28E-10	3.41E-10	8.95E-12	0.00E+00	3.50E-10
6306	457056.8	3768802	3.002E-09	1.54E-10	0.00E+00	3.16E-09	3.00E-09	1.54E-10	0.00E+00	3.16E-09	8.99E-10	2.77E-11	0.00E+00	9.27E-10	3.41E-10	8.93E-12	0.00E+00	3.50E-10
6307	457047.5	3768798	2.996E-09	1.54E-10	0.00E+00	3.15E-09	3.00E-09	1.54E-10	0.00E+00	3.15E-09	8.97E-10	2.76E-11	0.00E+00	9.25E-10	3.40E-10	8.92E-12	0.00E+00	3.49E-10
6308	457038.3	3768795	2.99E-09	1.53E-10	0.00E+00	3.14E-09	2.99E-09	1.53E-10	0.00E+00	3.14E-09	8.96E-10	2.76E-11	0.00E+00	9.23E-10	3.39E-10	8.90E-12	0.00E+00	3.48E-10
6309	457029.1	3768791	2.983E-09	1.53E-10	0.00E+00	3.14E-09	2.98E-09	1.53E-10	0.00E+00	3.14E-09	8.94E-10	2.75E-11	0.00E+00	9.21E-10	3.38E-10	8.88E-12	0.00E+00	3.47E-10
6310	457019.9	3768787	2.976E-09	1.53E-10	0.00E+00	3.13E-09	2.98E-09	1.53E-10	0.00E+00	3.13E-09	8.91E-10	2.74E-11	0.00E+00	9.19E-10	3.38E-10	8.86E-12	0.00E+00	3.47E-10
6311	457010.7	3768783	2.968E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.89E-10	2.74E-11	0.00E+00	9.16E-10	3.37E-10	8.83E-12	0.00E+00	3.46E-10
6312	457001.5	3768779	2.96E-09	1.52E-10	0.00E+00	3.11E-09	2.96E-09	1.52E-10	0.00E+00	3.11E-09	8.87E-10	2.73E-11	0.00E+00	9.14E-10	3.36E-10	8.81E-12	0.00E+00	3.45E-10
6313	456992.2	3768776	2.952E-09	1.51E-10	0.00E+00	3.10E-09	2.95E-09	1.51E-10	0.00E+00	3.10E-09	8.84E-10	2.72E-11	0.00E+00	9.11E-10	3.35E-10	8.78E-12	0.00E+00	3.44E-10
6314	456983	3768772	2.942E-09	1.51E-10	0.00E+00	3.09E-09	2.94E-09	1.51E-10	0.00E+00	3.09E-09	8.81E-10	2.71E-11	0.00E+00	9.08E-10	3.34E-10	8.76E-12	0.00E+00	3.43E-10
6315	456973.8	3768768	2.932E-09	1.50E-10	0.00E+00	3.08E-09	2.93E-09	1.50E-10	0.00E+00	3.08E-09	8.78E-10	2.70E-11	0.00E+00	9.05E-10	3.33E-10	8.73E-12	0.00E+00	3.41E-10
6316	456964.6	3768764	2.922E-09	1.50E-10	0.00E+00	3.07E-09	2.92E-09	1.50E-10	0.00E+00	3.07E-09	8.75E-10	2.69E-11	0.00E+00	9.02E-10	3.31E-10	8.69E-12	0.00E+00	3.40E-10
6317	456955.4	3768760	2.91E-09	1.49E-10	0.00E+00	3.06E-09	2.91E-09	1.49E-10	0.00E+00	3.06E-09	8.72E-10	2.68E-11	0.00E+00	8.99E-10	3.30E-10	8.66E-12	0.00E+00	3.39E-10
6318	456946.2	3768757	2.899E-09	1.49E-10	0.00E+00	3.05E-09	2.90E-09	1.49E-10	0.00E+00	3.05E-09	8.68E-10	2.67E-11	0.00E+00	8.95E-10	3.29E-10	8.63E-12	0.00E+00	3.37E-10
6319	456937	3768753	2.887E-09	1.48E-10	0.00E+00	3.03E-09	2.89E-09	1.48E-10	0.00E+00	3.03E-09	8.65E-10	2.66E-11	0.00E+00	8.91E-10	3.28E-10	8.59E-12	0.00E+00	3.36E-10
6320	456927.7	3768749	2.875E-09	1.47E-10	0.00E+00	3.02E-09	2.87E-09	1.47E-10	0.00E+00	3.02E-09	8.61E-10	2.65E-11	0.00E+00	8.88E-10	3.26E-10	8.55E-12	0.00E+00	3.35E-10
6321	456890.9	3768734	2.823E-09	1.45E-10	0.00E+00	2.97E-09	2.82E-09	1.45E-10	0.00E+00	2.97E-09	8.45E-10	2.60E-11	0.00E+00	8.71E-10	3.20E-10	8.40E-12	0.00E+00	3.29E-10
6322	456881.7	3768730	2.809E-09	1.44E-10	0.00E+00	2.95E-09	2.81E-09	1.44E-10	0.00E+00	2.95E-09	8.41E-10	2.59E-11	0.00E+00	8.67E-10	3.19E-10	8.36E-12	0.00E+00	3.27E-10
6323	456872.5	3768726	2.795E-09	1.43E-10	0.00E+00	2.94E-09	2.79E-09	1.43E-10	0.00E+00	2.94E-09	8.37E-10	2.58E-11	0.00E+00	8.63E-10	3.17E-10	8.32E-12	0.00E+00	3.25E-10
6324	456863.2	3768723	2.78E-09	1.43E-10	0.00E+00	2.92E-09	2.78E-09	1.43E-10	0.00E+00	2.92E-09	8.33E-10	2.56E-11	0.00E+00	8.58E-10	3.15E-10	8.27E-12	0.00E+00	3.24E-10
6325	456854	3768719	2.766E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.28E-10	2.55E-11	0.00E+00	8.54E-10	3.14E-10	8.23E-12	0.00E+00	3.22E-10
6326	456840.9	3768706	2.777E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.32E-10	2.56E-11	0.00E+00	8.57E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6327	456837.1	3768697	2.804E-09	1.44E-10	0.00E+00	2.95E-09	2.80E-09	1.44E-10	0.00E+00	2.95E-09	8.40E-10	2.58E-11	0.00E+00	8.66E-10	3.18E-10	8.34E-12	0.00E+00	3.26E-10
6328	456833.2	3768687	2.83E-09	1.45E-10	0.00E+00	2.98E-09	2.83E-09	1.45E-10	0.00E+00	2.98E-09	8.48E-10	2.61E-11	0.00E+00	8.74E-10	3.21E-10	8.42E-12	0.00E+00	3.30E-10
6329	456829.3	3768678	2.858E-09	1.47E-10	0.00E+00	3.00E-09	2.86E-09	1.47E-10	0.00E+00	3.00E-09	8.56E-10	2.63E-11	0.00E+00	8.82E-10	3.24E-10	8.50E-12	0.00E+00	3.33E-10
6330	456825.5	3768669	2.885E-09	1.48E-10	0.00E+00	3.03E-09	2.88E-09	1.48E-10	0.00E+00	3.03E-09	8.64E-10	2.66E-11	0.00E+00	8.91E-10	3.27E-10	8.58E-12	0.00E+00	3.36E-10
6331	456821.6	3768660	2.912E-09	1.49E-10	0.00E+00	3.06E-09	2.91E-09	1.49E-10	0.00E+00	3.06E-09	8.72E-10	2.68E-11	0.00E+00	8.99E-10	3.30E-10	8.66E-12	0.00E+00	3.39E-10
6332	456817.7	3768651	2.939E-09	1.51E-10	0.00E+00	3.09E-09	2.94E-09	1.51E-10	0.00E+00	3.09E-09	8.80E-10	2.71E-11	0.00E+00	9.07E-10	3.33E-10	8.75E-12	0.00E+00	3.42E-10
6333	456813.9	3768641	2.967E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.89E-10	2.73E-11	0.00E+00	9.16E-10	3.37E-10	8.83E-12	0.00E+00	3.45E-10
6334	456810	3768632	2.995E-09	1.54E-10	0.00E+00	3.15E-09	2.99E-09	1.54E-10	0.00E+00	3.15E-09	8.97E-10	2.76E-11	0.00E+00	9.25E-10	3.40E-10	8.91E-12	0.00E+00	3.49E-10
6335	456806.1	3768623	3.023E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.05E-10	2.79E-11	0.00E+00	9.33E-10	3.43E-10	9.00E-12	0.00E+00	3.52E-10
6336	456802.3	3768614	3.052E-09	1.56E-10	0.00E+00	3.21E-09	3.05E-09	1.56E-10	0.00E+00	3.21E-09	9.14E-10	2.81E-11	0.00E+00	9.42E-10	3.46E-10	9.08E-12	0.00E+00	3.55E-10
6337	456798.4	3768605	3.081E-09	1.58E-10	0.00E+00	3.24E-09	3.08E-09	1.58E-10	0.00E+00	3.24E-09	9.23E-10	2.84E-11	0.00E+00	9.51E-10	3.50E-10	9.17E-12	0.00E+00	3.59E-10
6338	456794.5	3768596	3.111E-09	1.59E-10	0.00E+00	3.27E-09	3.11E-09	1.59E-10	0.00E+00	3.27E-09	9.32E-10	2.87E-11	0.00E+00	9.60E-10	3.53E-10	9.26E-12	0.00E+00	3.62E-10
6339	456790.7	3768586	3.14E-09	1.61E-10	0.00E+00	3.30E-09	3.14E-09	1.61E-10	0.00E+00	3.30E-09	9.41E-10	2.89E-11	0.00E+00	9.70E-10	3.56E-10	9.34E-12	0.00E+00	3.66E-10
6340	456786.8	3768577	3.17E-09	1.63E-10	0.00E+00	3.33E-09	3.17E-09	1.63E-10	0.00E+00	3.33E-09	9.50E-10	2.92E-11	0.00E+00	9.79E-10	3.60E-10	9.43E-12	0.00E+00	3.69E-10
6341	456782.9	3768568	3.201E-09	1.64E-10	0.00E+00	3.36E-09	3.20E-09	1.64E-10	0.00E+00	3.36E-09	9.59E-10	2.95E-11	0.00E+00	9.88E-10	3.63E-10	9.52E-12	0.00E+00	3.73E-10
6342	456779.1	3768559	3.232E-09	1.66E-10	0.00E+00	3.40E-09	3.23E-09	1.66E-10	0.00E+00	3.40E-09	9.68E-10	2.98E-11	0.00E+00	9.98E-10	3.67E-10	9.62E-12	0.00E+00	3.76E-10
6343	456775.2	3768550	3.263E-09	1.67E-10	0.00E+00	3.43E-09	3.26E-09	1.67E-10	0.00E+00	3.43E-09	9.77E-10	3.01E-11	0.00E+00	1.01E-09	3.70E-10	9.71E-12	0.00E+00	3.80E-10
6344	456771.3	3768540	3.296E-09	1.69E-10	0.00E+00	3.46E-09	3.30E-09	1.69E-10	0.00E+00	3.46E-09	9.87E-10	3.04E-11	0.00E+00	1.02E-09	3.74E-10	9.81E-12	0.00E+00	3.84E-10
6345	456767.5	3768531	3.328E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.97E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.90E-12	0.00E+00	3.87E-10
6346	456763.6	3768522	3.361E-09	1.72E-10	0.00E+00	3.53E-09	3.36E-09	1.72E-10	0.00E+00	3.53E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.81E-10	1.00E-11	0.00E+00	3.91E-10
6347	456759.7	3768513	3.394E-09	1.74E-10	0.00E+00	3.57E-09	3.39E-09	1.74E-10	0.00E+00	3.57E-09	1.02E-09	3.13E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.95E-10
6348	456755.9	3768504	3.428E-09	1.76E-10	0.00E+00	3.60E-09	3.43E-09	1.76E-10	0.00E+00	3.60E-09	1.03E-09	3.16E-11	0.00E+00	1.06E-09	3.89E-10	1.02E-11	0.00E+00	3.99E-10
6349	456752	3768495	3.462E-09	1.78E-10	0.00E+00	3.64E-09	3.46E-09	1.78E-10	0.00E+00	3.64E-09	1.04E-09	3.19E-11	0.00E+00	1.07E-09	3.93E-10	1.03E-11	0.00E+00	4.03E-10
6350	456748.1	3768485	3.497E-09	1.79E-10	0.00E+00	3.68E-09	3.50E-09	1.79E-10	0.00E+00	3.68E-09	1.05E-09	3.22E-11	0.00E+00	1.08E-09	3.97E-10	1.04E-11	0.00E+00	4.07E-10
6351	456744.3	3768476	3.532E-09	1.81E-10	0.00E+00	3.71E-09	3.53E-09	1.81E-10	0.00E+00	3.71E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.11E-10
6352	456740.4	3768467	3.568E-09	1.83E-10	0.00E+00	3.75E-09	3.57E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.05E-10	1.06E-11	0.00E+00	4.15E-10
6353	456736.5	3768458	3.604E-09	1.85E-10	0.00E+00	3.79E-09	3.60E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.20E-10
6354	456721.1	3768421	3.755E-09	1.92E-10	0.00E+00	3.95E-09	3.75E-09	1.92E-10	0.00E+00	3.95E-09	1.12E-09	3.46E-11	0.00E+00	1.16E-09	4.26E-10	1.12E-11	0.00E+00	4.37E-10
6355	456717.2	3768412	3.793E-09	1.94E-10	0.00E+00	3.99E-09	3.79E-09	1.94E-10	0.00E+00	3.99E-09	1.14E-09	3.50E-11	0.00E+00	1.17E-09	4.30E-10	1.13E-11	0.00E+00	4.42E-10
6356	456713.3	3768403	3.832E-09	1.96E-10	0.00E+00	4.03E-09	3.83E-09	1.96E-10	0.00E+00	4.03E-09	1.15E-09	3.53E-11	0.00E+00	1.18E-09	4.35E-10	1.14E-11	0.00E+00	4.46E-10
6357	456709.5	3768394	3.872E-09	1.99E-10	0.00E+00	4.07E-09	3.87E-09	1.99E-10	0.00E+00	4.07E-09	1.16E-09	3.57E-11	0.00E+00	1.20E-09	4.39E-10	1.15E-11	0.00E+00	4.51E-10
6358	456705.6	3768384	3.912E-09	2.01E-10	0.00E+00	4.11E-09	3.91E-09	2.01E-10	0.00E+00	4.11E-09	1.17E-09	3.61E-11	0.00E+00	1.21E-09	4.44E-10	1.16E-11	0.00E+00	4.55E-10
6359	456701.7	3768375	3.953E-09	2.03E-10	0.00E+00	4.16E-09	3.95E-09	2.03E-10	0.00E+00	4.16E-09	1.18E-09	3.64E-11	0.00E+00	1.22E-09	4.48E-10	1.18E-11	0.00E+00	4.60E-10
6360	456697.8	3768366	3.993E-09	2.05E-10	0.00E+00	4.20E-09	3.99E-09	2.05E-10	0.00E+00	4.20E-09	1.20E-09	3.68E-11	0.00E+00	1.23E-09	4.53E-10	1.19E-11	0.00E+00	4.65E-10
6361	456694	3768357	4.033E-09	2.07E-10	0.00E+00	4.24E-09	4.03E-09	2.07E-10	0.00E+00	4.24E-09	1.21E-09	3.72E-11	0.00E+00	1.25E-09	4.58E-10	1.20E-11	0.00E+00	4.70E-10
6362	456690.1	3768348	4.074E-09	2.09E-10	0.00E+00	4.28E-09	4.07E-09	2.09E-10	0.00E+00	4.28E-09	1.22E-09	3.76E-11	0.00E+00	1.26E-09	4.62E-10	1.21E-11	0.00E+00	4.74E-10
6363	456686.2	3768338	4.115E-09	2.11E-10	0.00E+00	4.33E-09	4.12E-09	2.11E-10	0.00E+00	4.33E-09	1.23E-09	3.79E-11	0.00E+00	1.27E-09	4.67E-10	1.22E-11	0.00E+00	4.79E-10
6364	456682.4	3768329	4.157E-09	2.13E-10	0.00E+00	4.37E-09	4.16E-09	2.13E-10	0.00E+00	4.37E-09	1.25E-09	3.83E-11	0.00E+00	1.28E-09	4.72E-10	1.24E-11	0.00E+00	4.84E-10
6365	456678.5	3768320	4.199E-09	2.15E-10	0.00E+00	4.41E-09	4.20E-09	2.15E-10	0.00E+00	4.41E-09	1.26E-09	3.87E-11	0.00E+00	1.30E-09	4.76E-10	1.25E-11	0.00E+00	4.89E-10
6366	456674.6	3768311	4.241E-09	2.17E-10	0.00E+00	4.46E-09	4.24E-09	2.17E-10	0.00E+00	4.46E-09	1.27E-09	3.91E-11	0.00E+00	1.31E-09	4.81E-10	1.26E-11	0.00E+00	4.94E-10
6367	456670.8	3768302	4.282E-09	2.20E-10	0.00E+00	4.50E-09	4.28E-09	2.20E-10	0.00E+00	4.50E-09	1.28E-09	3.95E-11	0.00E+00	1.32E-09	4.86E-10	1.27E-11	0.00E+00	4.99E-10
6368	456666.9	3768292	4.323E-09	2.22E-10	0.00E+00	4.54E-09	4.32E-09	2.22E-10	0.00E+00	4.54E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.90E-10	1.29E-11	0.00E+00	5.03E-10
6369	456663	3768283	4.365E-09	2.24E-10	0.00E+00	4.59E-09	4.36E-09	2.24E-10	0.00E+00	4.59E-09	1.31E-09	4.02E-11	0.00E+00	1.35E-09	4.95E-10	1.30E-11	0.00E+00	5.08E-10
6370	456659.2	3768274	4.406E-09	2.26E-10	0.00E+00	4.63E-09	4.41E-09	2.26E-10	0.00E+00	4.63E-09	1.32E-09	4.06E-11	0.00E+00	1.36E-09	5.00E-10	1.31E-11	0.00E+00	5.13E-10
6371	456655.3	3768265	4.448E-09	2.28E-10	0.00E+00	4.68E-09	4.45E-09	2.28E-10	0.00E+00	4.68E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.05E-10	1.32E-11	0.00E+00	5.18E-10
6372	456651.4	3768256	4.49E-09	2.30E-10	0.00E+00	4.72E-09	4.49E-09	2.30E-10	0.00E+00	4.72E-09	1.34E-09	4.14E-11	0.00E+00	1.39E-09	5.09E-10	1.34E-11	0.00E+00	5.23E-10
6373	456647.6	3768247	4.532E-09	2.32E-10	0.00E+00	4.76E-09	4.53E-09	2.32E-10	0.00E+00	4.76E-09	1.36E-09	4.18E-11	0.00E+00	1.40E-09	5.14E-10	1.35E-11	0.00E+00	5.28E-10
6374	457334	3768912	2.951E-09	1.51E-10	0.00E+00	3.10E-09	2.95E-09	1.51E-10	0.00E+00	3.10E-09	8.84E-10	2.72E-11	0.00E+00	9.11E-10	3.35E-10	8.78E-12	0.00E+00	3.44E-10
6375	457343.9	3768912	2.975E-09	1.53E-10	0.00E+00	3.13E-09	2.97E-09	1.53E-10	0.00E+00	3.13E-09	8.91E-10	2.74E-11	0.00E+00	9.18E-10	3.37E-10	8.85E-12	0.00E+00	3.46E-10
6376	457353.9	3768912	2.999E-09	1.54E-10	0.00E+00	3.15E-09	3.00E-09	1.54E-10	0.00E+00	3.15E-09	8.98E-10	2.76E-11	0.00E+00	9.26E-10	3.40E-10	8.92E-12	0.00E+00	3.49E-10
6377	457363.9	3768912	3.024E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.06E-10	2.79E-11	0.00E+00	9.34E-10	3.43E-10	9.00E-12	0.00E+00	3.52E-10
6378	457373.8	3768912	3.05E-09	1.56E-10	0.00E+00	3.21E-09	3.05E-09	1.56E-10	0.00E+00	3.21E-09	9.13E-10	2.81E-11	0.00E+00	9.42E-10	3.46E-10	9.08E-12	0.00E+00	3.55E-10
6379	457383.8	3768912	3.076E-09	1.58E-10	0.00E+00	3.23E-09	3.08E-09	1.58E-10	0.00E+00	3.23E-09	9.21E-10	2.84E-11	0.00E+00	9.50E-10	3.49E-10	9.15E-12	0.00E+00	3.58E-10
6380	457393.8	3768912	3.104E-09	1.59E-10	0.00E+00	3.26E-09	3.10E-09	1.59E-10	0.00E+00	3.26E-09	9.30E-10	2.86E-11	0.00E+00	9.58E-10	3.52E-10	9.24E-12	0.00E+00	3.61E-10
6381	457403.8	3768912	3.132E-09	1.61E-10	0.00E+00	3.29E-09	3.13E-09	1.61E-10	0.00E+00	3.29E-09	9.38E-10	2.89E-11	0.00E+00	9.67E-10	3.55E-10	9.32E-12	0.00E+00	3.65E-10

6382	457413.7	3768912	3.161E-09	1.62E-10	0.00E+00	3.32E-09	3.16E-09	1.62E-10	0.00E+00	3.32E-09	9.47E-10	2.91E-11	0.00E+00	9.76E-10	3.59E-10	9.41E-12	0.00E+00	3.68E-10
6383	457423.7	3768912	3.188E-09	1.63E-10	0.00E+00	3.35E-09	3.19E-09	1.63E-10	0.00E+00	3.35E-09	9.55E-10	2.94E-11	0.00E+00	9.84E-10	3.62E-10	9.49E-12	0.00E+00	3.71E-10
6384	457433.7	3768912	3.214E-09	1.65E-10	0.00E+00	3.38E-09	3.21E-09	1.65E-10	0.00E+00	3.38E-09	9.63E-10	2.96E-11	0.00E+00	9.92E-10	3.65E-10	9.56E-12	0.00E+00	3.74E-10
6385	457443.6	3768912	3.24E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.70E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.64E-12	0.00E+00	3.77E-10
6386	457453.6	3768912	3.268E-09	1.68E-10	0.00E+00	3.44E-09	3.27E-09	1.68E-10	0.00E+00	3.44E-09	9.79E-10	3.01E-11	0.00E+00	1.01E-09	3.71E-10	9.73E-12	0.00E+00	3.81E-10
6387	457463.6	3768912	3.301E-09	1.69E-10	0.00E+00	3.47E-09	3.30E-09	1.69E-10	0.00E+00	3.47E-09	9.89E-10	3.04E-11	0.00E+00	1.02E-09	3.74E-10	9.82E-12	0.00E+00	3.84E-10
6388	457473.5	3768912	3.334E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.99E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.92E-12	0.00E+00	3.88E-10
6389	457483.5	3768912	3.368E-09	1.73E-10	0.00E+00	3.54E-09	3.37E-09	1.73E-10	0.00E+00	3.54E-09	1.01E-09	3.11E-11	0.00E+00	1.04E-09	3.82E-10	1.00E-11	0.00E+00	3.92E-10
6390	457493.5	3768912	3.405E-09	1.75E-10	0.00E+00	3.58E-09	3.40E-09	1.75E-10	0.00E+00	3.58E-09	1.02E-09	3.14E-11	0.00E+00	1.05E-09	3.86E-10	1.01E-11	0.00E+00	3.96E-10
6391	457503.5	3768912	3.442E-09	1.76E-10	0.00E+00	3.62E-09	3.44E-09	1.76E-10	0.00E+00	3.62E-09	1.03E-09	3.17E-11	0.00E+00	1.06E-09	3.91E-10	1.02E-11	0.00E+00	4.01E-10
6392	457513.4	3768912	3.481E-09	1.78E-10	0.00E+00	3.66E-09	3.48E-09	1.78E-10	0.00E+00	3.66E-09	1.04E-09	3.21E-11	0.00E+00	1.07E-09	3.95E-10	1.04E-11	0.00E+00	4.05E-10
6393	457523.4	3768912	3.521E-09	1.81E-10	0.00E+00	3.70E-09	3.52E-09	1.81E-10	0.00E+00	3.70E-09	1.05E-09	3.25E-11	0.00E+00	1.09E-09	3.99E-10	1.05E-11	0.00E+00	4.10E-10
6394	457533.4	3768912	3.562E-09	1.83E-10	0.00E+00	3.75E-09	3.56E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.28E-11	0.00E+00	1.10E-09	4.04E-10	1.06E-11	0.00E+00	4.15E-10
6395	457543.3	3768912	3.602E-09	1.85E-10	0.00E+00	3.79E-09	3.60E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.19E-10
6396	457553.3	3768912	3.639E-09	1.87E-10	0.00E+00	3.83E-09	3.64E-09	1.87E-10	0.00E+00	3.83E-09	1.09E-09	3.35E-11	0.00E+00	1.12E-09	4.13E-10	1.08E-11	0.00E+00	4.24E-10
6397	457563.3	3768912	3.677E-09	1.89E-10	0.00E+00	3.87E-09	3.68E-09	1.89E-10	0.00E+00	3.87E-09	1.10E-09	3.39E-11	0.00E+00	1.14E-09	4.17E-10	1.09E-11	0.00E+00	4.28E-10
6398	457573.2	3768912	3.718E-09	1.91E-10	0.00E+00	3.91E-09	3.72E-09	1.91E-10	0.00E+00	3.91E-09	1.11E-09	3.43E-11	0.00E+00	1.15E-09	4.22E-10	1.11E-11	0.00E+00	4.33E-10
6399	457583.2	3768912	3.765E-09	1.93E-10	0.00E+00	3.96E-09	3.76E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.47E-11	0.00E+00	1.16E-09	4.27E-10	1.12E-11	0.00E+00	4.38E-10
6400	457593.2	3768912	3.813E-09	1.95E-10	0.00E+00	4.01E-09	3.81E-09	1.95E-10	0.00E+00	4.01E-09	1.14E-09	3.51E-11	0.00E+00	1.18E-09	4.33E-10	1.13E-11	0.00E+00	4.44E-10
6401	457603.2	3768912	3.863E-09	1.98E-10	0.00E+00	4.06E-09	3.86E-09	1.98E-10	0.00E+00	4.06E-09	1.16E-09	3.56E-11	0.00E+00	1.19E-09	4.38E-10	1.15E-11	0.00E+00	4.50E-10
6402	457613.1	3768912	3.916E-09	2.01E-10	0.00E+00	4.12E-09	3.92E-09	2.01E-10	0.00E+00	4.12E-09	1.17E-09	3.61E-11	0.00E+00	1.21E-09	4.44E-10	1.17E-11	0.00E+00	4.56E-10
6403	457623.1	3768912	3.97E-09	2.04E-10	0.00E+00	4.17E-09	3.97E-09	2.04E-10	0.00E+00	4.17E-09	1.19E-09	3.66E-11	0.00E+00	1.23E-09	4.50E-10	1.18E-11	0.00E+00	4.62E-10
6404	457633.1	3768912	4.026E-09	2.06E-10	0.00E+00	4.23E-09	4.03E-09	2.06E-10	0.00E+00	4.23E-09	1.21E-09	3.71E-11	0.00E+00	1.24E-09	4.57E-10	1.20E-11	0.00E+00	4.69E-10
6405	457643	3768912	4.084E-09	2.09E-10	0.00E+00	4.29E-09	4.08E-09	2.09E-10	0.00E+00	4.29E-09	1.22E-09	3.77E-11	0.00E+00	1.26E-09	4.63E-10	1.22E-11	0.00E+00	4.76E-10
6406	457653	3768912	4.145E-09	2.12E-10	0.00E+00	4.36E-09	4.14E-09	2.12E-10	0.00E+00	4.36E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.83E-10
6407	457663	3768912	4.203E-09	2.15E-10	0.00E+00	4.42E-09	4.20E-09	2.15E-10	0.00E+00	4.42E-09	1.26E-09	3.87E-11	0.00E+00	1.30E-09	4.77E-10	1.25E-11	0.00E+00	4.89E-10
6408	457672.9	3768912	4.258E-09	2.18E-10	0.00E+00	4.48E-09	4.26E-09	2.18E-10	0.00E+00	4.48E-09	1.28E-09	3.92E-11	0.00E+00	1.31E-09	4.83E-10	1.27E-11	0.00E+00	4.96E-10
6409	457682.9	3768912	4.313E-09	2.21E-10	0.00E+00	4.53E-09	4.31E-09	2.21E-10	0.00E+00	4.53E-09	1.29E-09	3.98E-11	0.00E+00	1.33E-09	4.89E-10	1.28E-11	0.00E+00	5.02E-10
6410	457692.9	3768912	4.374E-09	2.24E-10	0.00E+00	4.60E-09	4.37E-09	2.24E-10	0.00E+00	4.60E-09	1.31E-09	4.03E-11	0.00E+00	1.35E-09	4.96E-10	1.30E-11	0.00E+00	5.09E-10
6411	457702.9	3768912	4.444E-09	2.28E-10	0.00E+00	4.67E-09	4.44E-09	2.28E-10	0.00E+00	4.67E-09	1.33E-09	4.10E-11	0.00E+00	1.37E-09	5.04E-10	1.32E-11	0.00E+00	5.17E-10
6412	457296.8	3768941	2.707E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.11E-10	2.50E-11	0.00E+00	8.36E-10	3.07E-10	8.06E-12	0.00E+00	3.15E-10
6413	457287.8	3768937	2.71E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.12E-10	2.50E-11	0.00E+00	8.37E-10	3.07E-10	8.06E-12	0.00E+00	3.16E-10
6414	457278.7	3768934	2.712E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.12E-10	2.50E-11	0.00E+00	8.37E-10	3.08E-10	8.07E-12	0.00E+00	3.16E-10
6415	457269.6	3768930	2.715E-09	1.39E-10	0.00E+00	2.85E-09	2.72E-09	1.39E-10	0.00E+00	2.85E-09	8.13E-10	2.50E-11	0.00E+00	8.38E-10	3.08E-10	8.08E-12	0.00E+00	3.16E-10
6416	457260.6	3768926	2.719E-09	1.39E-10	0.00E+00	2.86E-09	2.72E-09	1.39E-10	0.00E+00	2.86E-09	8.14E-10	2.51E-11	0.00E+00	8.39E-10	3.08E-10	8.09E-12	0.00E+00	3.17E-10
6417	457251.5	3768922	2.722E-09	1.40E-10	0.00E+00	2.86E-09	2.72E-09	1.40E-10	0.00E+00	2.86E-09	8.15E-10	2.51E-11	0.00E+00	8.40E-10	3.09E-10	8.10E-12	0.00E+00	3.17E-10
6418	457242.5	3768919	2.725E-09	1.40E-10	0.00E+00	2.86E-09	2.73E-09	1.40E-10	0.00E+00	2.86E-09	8.16E-10	2.51E-11	0.00E+00	8.41E-10	3.09E-10	8.11E-12	0.00E+00	3.17E-10
6419	457233.4	3768915	2.731E-09	1.40E-10	0.00E+00	2.87E-09	2.73E-09	1.40E-10	0.00E+00	2.87E-09	8.18E-10	2.52E-11	0.00E+00	8.43E-10	3.10E-10	8.13E-12	0.00E+00	3.18E-10
6420	457224.3	3768911	2.738E-09	1.40E-10	0.00E+00	2.88E-09	2.74E-09	1.40E-10	0.00E+00	2.88E-09	8.20E-10	2.52E-11	0.00E+00	8.45E-10	3.11E-10	8.15E-12	0.00E+00	3.19E-10
6421	457215.3	3768907	2.744E-09	1.41E-10	0.00E+00	2.88E-09	2.74E-09	1.41E-10	0.00E+00	2.88E-09	8.22E-10	2.53E-11	0.00E+00	8.47E-10	3.11E-10	8.17E-12	0.00E+00	3.19E-10
6422	457206.2	3768904	2.748E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.23E-10	2.53E-11	0.00E+00	8.49E-10	3.12E-10	8.18E-12	0.00E+00	3.20E-10
6423	457197.2	3768900	2.751E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.24E-10	2.54E-11	0.00E+00	8.49E-10	3.12E-10	8.19E-12	0.00E+00	3.20E-10
6424	457188.1	3768896	2.754E-09	1.41E-10	0.00E+00	2.90E-09	2.75E-09	1.41E-10	0.00E+00	2.90E-09	8.25E-10	2.54E-11	0.00E+00	8.50E-10	3.12E-10	8.20E-12	0.00E+00	3.21E-10
6425	457179	3768893	2.757E-09	1.41E-10	0.00E+00	2.90E-09	2.76E-09	1.41E-10	0.00E+00	2.90E-09	8.26E-10	2.54E-11	0.00E+00	8.51E-10	3.13E-10	8.20E-12	0.00E+00	3.21E-10
6426	457170	3768889	2.762E-09	1.42E-10	0.00E+00	2.90E-09	2.76E-09	1.42E-10	0.00E+00	2.90E-09	8.27E-10	2.55E-11	0.00E+00	8.53E-10	3.13E-10	8.22E-12	0.00E+00	3.22E-10
6427	457160.9	3768885	2.767E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.29E-10	2.55E-11	0.00E+00	8.54E-10	3.14E-10	8.23E-12	0.00E+00	3.22E-10
6428	457151.9	3768881	2.771E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.30E-10	2.55E-11	0.00E+00	8.55E-10	3.14E-10	8.24E-12	0.00E+00	3.23E-10
6429	457142.8	3768878	2.773E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.30E-10	2.56E-11	0.00E+00	8.56E-10	3.15E-10	8.25E-12	0.00E+00	3.23E-10
6430	457133.7	3768874	2.774E-09	1.42E-10	0.00E+00	2.92E-09	2.77E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.56E-10	3.15E-10	8.25E-12	0.00E+00	3.23E-10
6431	457124.7	3768870	2.775E-09	1.42E-10	0.00E+00	2.92E-09	2.77E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.57E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6432	457115.6	3768866	2.776E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.57E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6433	457106.6	3768863	2.778E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.32E-10	2.56E-11	0.00E+00	8.58E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6434	457097.5	3768859	2.779E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.32E-10	2.56E-11	0.00E+00	8.58E-10	3.15E-10	8.27E-12	0.00E+00	3.24E-10
6435	457088.4	3768855	2.795E-09	1.43E-10	0.00E+00	2.94E-09	2.80E-09	1.43E-10	0.00E+00	2.94E-09	8.37E-10	2.58E-11	0.00E+00	8.63E-10	3.17E-10	8.32E-12	0.00E+00	3.25E-10
6436	457079.4	3768851	2.793E-09	1.43E-10	0.00E+00	2.94E-09	2.79E-09	1.43E-10	0.00E+00	2.94E-09	8.37E-10	2.57E-11	0.00E+00	8.62E-10	3.17E-10	8.31E-12	0.00E+00	3.25E-10
6437	457070.3	3768848	2.79E-09	1.43E-10	0.00E+00	2.93E-09	2.79E-09	1.43E-10	0.00E+00	2.93E-09	8.36E-10	2.57E-11	0.00E+00	8.61E-10	3.17E-10	8.30E-12	0.00E+00	3.25E-10
6438	457061.3	3768844	2.788E-09	1.43E-10	0.00E+00	2.93E-09	2.79E-09	1.43E-10	0.00E+00	2.93E-09	8.35E-10	2.57E-11	0.00E+00	8.61E-10	3.16E-10	8.30E-12	0.00E+00	3.25E-10
6439	457052.2	3768840	2.784E-09	1.43E-10	0.00E+00	2.93E-09	2.78E-09	1.43E-10	0.00E+00	2.93E-09	8.34E-10	2.57E-11	0.00E+00	8.60E-10	3.16E-10	8.28E-12	0.00E+00	3.24E-10
6440	457043.1	3768837	2.78E-09	1.43E-10	0.00E+00	2.92E-09	2.78E-09	1.43E-10	0.00E+00	2.92E-09	8.33E-10	2.56E-11	0.00E+00	8.58E-10	3.15E-10	8.27E-12	0.00E+00	3.24E-10
6441	457034.1	3768833	2.776E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.57E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6442	457025	3768829	2.771E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.30E-10	2.55E-11	0.00E+00	8.56E-10	3.14E-10	8.25E-12	0.00E+00	3.23E-10
6443	457016	3768825	2.766E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.28E-10	2.55E-11	0.00E+00	8.54E-10	3.14E-10	8.23E-12	0.00E+00	3.22E-10
6444	457006.9	3768822	2.76E-09	1.41E-10	0.00E+00	2.90E-09	2.76E-09	1.41E-10	0.00E+00	2.90E-09	8.27E-10	2.54E-11	0.00E+00	8.52E-10	3.13E-10	8.21E-12	0.00E+00	3.21E-10
6445	456997.8	3768818	2.753E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.25E-10	2.54E-11	0.00E+00	8.50E-10	3.12E-10	8.19E-12	0.00E+00	3.21E-10
6446	456988.8	3768814	2.747E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.23E-10	2.53E-11	0.00E+00	8.48E-10	3.12E-10	8.17E-12	0.00E+00	3.20E-10
6447	456979.7	3768810	2.739E-09	1.40E-10	0.00E+00	2.88E-09	2.74E-09	1.40E-10	0.00E+00	2.88E-09	8.20E-10	2.53E-11	0.00E+00	8.46E-10	3.11E-10	8.15E-12	0.00E+00	3.19E-10
6448	456970.7	3768807	2.732E-09	1.40E-10	0.00E+00	2.87E-09	2.73E-09	1.40E-10	0.00E+00	2.87E-09	8.18E-10	2.52E-11	0.00E+00	8.43E-10	3.10E-10	8.13E-12	0.00E+00	3.18E-10
6449	456961.6	3768803	2.724E-09	1.40E-10	0.00E+00	2.86E-09	2.72E-09	1.40E-10	0.00E+00	2.86E-09	8.16E-10	2.51E-11	0.00E+00	8.41E-10	3.09E-10	8.10E-12	0.00E+00	3.17E-10
6450	456952.5	3768799	2.715E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.13E-10	2.50E-11	0.00E+00	8.38E-10	3.08E-10	8.08E-12	0.00E+00	3.16E-10
6451	456943.5	3768796	2.706E-09	1.39E-10	0.00E+00	2.84E-09	2.71E-09	1.39E-10	0.00E+00	2.84E-09	8.10E-10	2.49E-11	0.00E+00	8.35E-10	3.07E-10	8.05E-12	0.00E+00	3.15E-10
6452	456934.4	3768792	2.697E-09	1.38E-10	0.00E+00	2.83E-09	2.70E-09	1.38E-10	0.00E+00	2.83E-09	8.08E-10	2.49E-11	0.00E+00	8.32E-10	3.06E-10	8.02E-12	0.00E+00	3.14E-10
6453	456925.4	3768788	2.687E-09	1.38E-10	0.00E+00	2.82E-09	2.69E-09	1.38E-10	0.00E+00	2.82E-09	8.05E-10	2.48E-11	0.00E+00	8.30E-10	3.05E-10	8.00E-12	0.00E+00	3.13E-10
6454	456898.2	3768777	2.655E-09	1.36E-10	0.00E+00	2.79E-09	2.66E-09	1.36E-10	0.00E+00	2.79E-09	7.95E-10	2.45E-11	0.00E+00	8.20E-10	3.01E-10	7.90E-12	0.00E+00	3.09E-10
6455	456889.1	3768773	2.644E-09	1.36E-10	0.00E+00	2.78E-09	2.64E-09	1.36E-10	0.00E+00	2.78E-09	7.92E-10	2.44E-11	0.00E+00	8.16E-10	3.00E-10	7.87E-12	0.00E+00	3.08E-10
6456	456880.1	3768769	2.633E-09	1.35E-10	0.00E+00	2.77E-09	2.63E-09	1.35E-10	0.00E+00	2.77E-09	7.89E-10	2.43E-11	0.00E+00	8.13E-10	2.99E-10	7.83E-12	0.00E+00	3.07E-10
6457	456871	3768766	2.621E-09	1.34E-10	0.00E+00	2.76E-09	2.62E-09	1.34E-10	0.00E+00	2.76E-09	7.85E-10	2.42E-11	0.00E+00	8.09E-10	2.97E-10	7.80E-12	0.00E+00	3.05E-10
6458	456861.9	3768762	2.609E-09	1.34E-10	0.00E+00	2.74E-09	2.61E-09	1.34E-10	0.00E+00	2.74E-09	7.82E-10	2.41E-11	0.00E+00	8.06E-10	2.96E-10	7.76E-12	0.00E+00	3.04E-10
6459	456852.9	3768758	2.597E-09	1.33E-10	0.00E+00	2.73E-09	2.60E-09	1.33E-10	0.00E+00	2.73E-09	7.78E-10	2.39E-11	0.00E+00	8.02E-10	2.95E-10	7.73E-12	0.00E+00	3.02E-10
6460	456843.8	3768755	2.585E-09	1.33E-10	0.00E+00	2.72E-09	2.59E-09	1.33E-10	0.00E+00	2.72E-09	7.74E-10	2.38E-11	0.00E+00	7.98E-10	2.93E-10	7.69E-12	0.00E+00	3.01E-10
6461	456834.8	3768751	2.573E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.71E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6462	456825.7	3768747	2.56E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.67E-10	2.36E-11	0.00E+00	7.90E-10	2.90E-10	7.62E-12	0.00E+00	2.98E-10
6463	456812.8	3768734	2.57E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.70E-10	2.37E-11	0.00E+00	7.93E-10	2.92E-10	7.65E-12	0.00E+00	2.99E-10
6464	456809	3768725	2.593E-09	1.33E-10	0.00E+00	2.73E-09	2.59E-09	1.33E-10	0.00E+00	2.73E-09	7.76E-10	2.39E-11	0.00E+00	8.00E-10	2.94E-10	7.71E-12	0.00E+00	3.02E-10
6465	456805.2	3768716	2.615E-09	1.34E-10	0.00E+00	2.75E-09	2.62E-09	1.34E-10	0.00E+00	2.75E-09	7.83E-10	2.41E-11	0.00E+00	8.07E-10	2.97E-10	7.78E-12	0.00E+00	3.05E-10
6466	456801.4	3768707	2.638E-09	1.35E-10	0.00E+00	2.77E-09	2.64E-09	1.35E-10	0.00E+00	2.77E-09	7.90E-10	2.43E-11	0.00E+00	8.14E-10	2.99E-10	7.85E-12	0.00E+00	3.07E-10
6467	456797.6	3768698	2.662E-09	1.36E-10	0.00E+00	2.80E-09	2.66E-09	1.36E-10	0.00E+00	2.80E-09	7.97E-10	2.45E-11	0.00E+00	8.22E-10	3.02E-10	7.92E-12	0.00E+00	3.10E-10
6468	456793.8	3768689	2.685E-09	1.38E-10	0.00E+00	2.82E-09	2.69E-09	1.38E-10	0.00E+00	2.82E-09	8.04E-10	2.48E-11	0.00E+00	8.29E-10	3.05E-10	7.99E-12	0.00E+00	3.13E-10
6469	456790	3768680	2.709E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.11E-10	2.50E-11	0.00E+00	8.36E-10	3.07E-10	8.06E-12	0.00E+00	3.15E-10
6470	456786.2	3768671	2.733E-09	1.40E-10	0.00E+00	2.87E-09	2.73E-09	1.40E-10	0.00E+00	2.87E-09	8.19E-10	2.52E-11	0.00E+00	8.44E-10	3.10E-10	8.13E-12	0.00E+00	3.18E-10
6471	456782.4	3768662	2.757E-09	1.41E-10	0.00E+00	2.90E-09	2.76E-09	1.41E-10	0.00E+00	2.90E-09	8.26E-10	2.54E-11	0.00E+00	8.51E-10	3.13E-10	8.20E-12	0.00E+00	3.21E-10
6472	456778.6	3768653	2.781E-09	1.43E-10	0.00E+00	2.92E-09	2.78E-09	1.43E-10	0.00E+00	2.92E-09	8.33E-10	2.56E-11	0.00E+00	8.59E-10	3.16E-10	8.28E-12	0.00E+00	3.24E-10
6473	456774.8	3768644	2.805E-09	1.44E-10	0.00E+00	2.95E-09	2.81E-09	1.44E-10	0.00E+00	2.95E-09	8.40E-10	2.59E-11	0.00E+00	8.66E-10	3.18E-10	8.35E-12	0.00E+00	3.27E-10
6474	456771	3768635	2.83E-09	1.45E-10	0.00E+00	2.98E-09	2.83E-09	1.45E-10	0.00E+00	2.98E-09	8.48E-10	2.61E-11	0.00E+00	8.74E-10	3.21E-10	8.42E-12	0.00E+00	3.30E-10
6475	456767.2	3768626	2.856E-09	1.46E-10	0.00E+00	3.00E-09	2.86E-09	1.46E-10	0.00E+00	3.00E-09	8.55E-10	2.63E-11	0.00E+00	8.82E-10	3.24E-10	8.50E-12	0.00E+00	3.32E-10
6476	456763.4	3768617	2.881E-09	1.48E-10	0.00E+00	3.03E-09	2.88E-09	1.48E-10	0.00E+00	3.03E-09	8.63E-10	2.66E-11	0.00E+00	8.90E-10	3.27E-10	8.57E-12	0.00E+00	3.35E-10
6477	456759.6	3768608	2.907E-09	1.49E-10	0.00E+00	3.06E-09	2.91E-09	1.49E-10	0.00E+00	3.06E-09	8.71E-10	2.68E-11	0.00E+00	8.97E-10	3.30E-10	8.65E-12	0.00E+00	3.38E-10
6478	456755.8	3768599	2.933E-09	1.50E-10	0.00E+00	3.08E-09	2.93E-09	1.50E-10	0.00E+00	3.08E-09	8.78E-10	2.70E-11	0.00E+00	9.05E-10	3.33E-10	8.73E-12	0.00E+00	3.41E-10
6479	456752	3768590	2.959E-09	1.52E-10	0.00E+00	3.11E-09	2.96E-09	1.52E-10	0.00E+00	3.11E-09	8.86E-10	2.73E-11	0.00E+00	9.13E-10	3.36E-10	8.80E-12	0.00E+00	3.44E-10
6480	456748.2	3768581	2.985E-09	1.53E-10	0.00E+00	3.14E-09	2.99E-09	1.53E-10	0.00E+00	3.14E-09	8.94E-10	2.75E-11	0.00E+00	9.22E-10	3.39E-10	8.88E-12	0.00E+00	3.48E-10
6481	456744.4	3768572	3.013E-09	1.54E-10	0.00E+00	3.17E-09	3.01E-09	1.54E-10	0.00E+00	3.17E-09	9.02E-10	2.78E-11	0.00E+00	9.30E-10	3.42E-10	8.96E-12	0.00E+00	3.51E-10
6482	456740.6	3768563	3.04E-09	1.56E-10	0.00E+00	3.20E-09	3.04E-09	1.56E-10	0.00E+00	3.20E-09	9.11E-10	2.80E-11	0.00E+00	9.39E-10	3.45E-10	9.05E-12	0.00E+00	3.54E-10
6483	456736.8	3768554	3.068E-09	1.57E-10	0.00E+00	3.23E-09	3.07E-09	1.57E-10	0.00E+00	3.23E-09	9.19E-10	2.83E-11	0.00E+00	9.47E-10	3.48E-10	9.13E-12	0.00E+00	3.57E-10
6484	456733	3768545	3.096E-09	1.59E-10	0.00E+00	3.25E-09	3.10E-09	1.59E-10	0.00E+00	3.25E-09	9.27E-10	2.85E-11	0.00E+00	9.56E-10	3.51E-10	9.21E-12	0.00E+00	3.60E-10
6485	456729.2	3768536	3.125E-09	1.60E-10	0.00E+00	3.29E-09	3.12E-09	1.60E-10	0.00E+00	3.29E-09	9.36E-10	2.88E-11	0.00E+00	9.65E-10	3.55E-10	9.30E-12	0.00E+00	3.64E-10
6486	456725.4	3768527	3.154E-09	1.62E-10	0.00E+00	3.32E-09	3.15E-09	1.62E-10	0.00E+00	3.32E-09	9.45E-10	2.91E-11	0.00E+00	9.74E-10	3.58E-10	9.38E-12	0.00E+00	3.67E-10
6487	456721.6	3768518	3.183E-09	1.63E-10	0.00E+00	3.35E-09	3.18E-09	1.63E-10	0.00E+00	3.35E-09	9.53E-10	2.93E-11	0.00E+00	9.83E-10	3.61E-10	9.47E-12	0.00E+00	3.71E-10
6488	456717.8	3768509	3.213E-09	1.65E-10	0.00E+00	3.38E-09	3.21E-09	1.65E-10	0.00E+00	3.38E-09	9.62E-10	2.96E-11	0.00E+00	9.92E-10	3.65E-10	9.56E-12	0.00E+00	3.74E-10
6489	456714	3768500	3.244E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.71E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.65E-12	0.00E+00	3.78E-10
6490	456710.2	3768491	3.274E-09	1.68E-10	0.00E+00	3.44E-09	3.27E-09	1.68E-10	0.00E+00	3.44E-09	9.81E-10	3.02E-11	0.00E+00	1.01E-09	3.71E-10	9.74E-12	0.00E+00	3.81E-10
6491	456706.4	3768481	3.305E-09	1.69E-10	0.00E+00	3.47E-09	3.31E-09	1.69E-10	0.00E+00	3.47E-09	9.90E-10	3.05E-11	0.00E+00	1.02E-09	3.75E-10	9.84E-12	0.00E+00	3.85E-10
6492	456702.6	3768472	3.337E-09	1.71E-10	0.00E+00	3.51E-09	3.34E-09	1.71E-10	0.00E+00	3.51E-09	9.99E-10	3.08E-11	0.00E+00	1.03E-09	3.79E-10	9.93E-12	0.00E+00	3.88E-10
6493	456698.8	3768463	3.369E-09	1.73E-10	0.00E+00	3.54E-09	3.37E-09	1.73E-10	0.00E+00	3.54E-09	1.01E-09	3.11E-11	0.00E+00	1.04E-09	3.82E-10	1.00E-11	0.00E+00	3.92E-10

6494	456695	3768454	3.401E-09	1.74E-10	0.00E+00	3.58E-09	3.40E-09	1.74E-10	0.00E+00	3.58E-09	1.02E-09	3.14E-11	0.00E+00	1.05E-09	3.86E-10	1.01E-11	0.00E+00	3.96E-10
6495	456679.8	3768418	3.535E-09	1.81E-10	0.00E+00	3.72E-09	3.53E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6496	456676	3768409	3.569E-09	1.83E-10	0.00E+00	3.75E-09	3.57E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.05E-10	1.06E-11	0.00E+00	4.15E-10
6497	456672.1	3768400	3.603E-09	1.85E-10	0.00E+00	3.79E-09	3.60E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.32E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.20E-10
6498	456668.3	3768391	3.638E-09	1.87E-10	0.00E+00	3.82E-09	3.64E-09	1.87E-10	0.00E+00	3.82E-09	1.09E-09	3.35E-11	0.00E+00	1.12E-09	4.13E-10	1.08E-11	0.00E+00	4.24E-10
6499	456664.5	3768382	3.674E-09	1.88E-10	0.00E+00	3.86E-09	3.67E-09	1.88E-10	0.00E+00	3.86E-09	1.10E-09	3.39E-11	0.00E+00	1.13E-09	4.17E-10	1.09E-11	0.00E+00	4.28E-10
6500	456660.7	3768373	3.709E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.15E-09	4.21E-10	1.10E-11	0.00E+00	4.32E-10
6501	456656.9	3768364	3.745E-09	1.92E-10	0.00E+00	3.94E-09	3.74E-09	1.92E-10	0.00E+00	3.94E-09	1.12E-09	3.45E-11	0.00E+00	1.16E-09	4.25E-10	1.11E-11	0.00E+00	4.36E-10
6502	456653.1	3768355	3.78E-09	1.94E-10	0.00E+00	3.97E-09	3.78E-09	1.94E-10	0.00E+00	3.97E-09	1.13E-09	3.48E-11	0.00E+00	1.17E-09	4.29E-10	1.12E-11	0.00E+00	4.40E-10
6503	456649.3	3768346	3.816E-09	1.96E-10	0.00E+00	4.01E-09	3.82E-09	1.96E-10	0.00E+00	4.01E-09	1.14E-09	3.52E-11	0.00E+00	1.18E-09	4.33E-10	1.14E-11	0.00E+00	4.44E-10
6504	456645.5	3768337	3.852E-09	1.97E-10	0.00E+00	4.05E-09	3.85E-09	1.97E-10	0.00E+00	4.05E-09	1.15E-09	3.55E-11	0.00E+00	1.19E-09	4.37E-10	1.15E-11	0.00E+00	4.49E-10
6505	456641.7	3768328	3.889E-09	1.99E-10	0.00E+00	4.09E-09	3.89E-09	1.99E-10	0.00E+00	4.09E-09	1.16E-09	3.58E-11	0.00E+00	1.20E-09	4.41E-10	1.16E-11	0.00E+00	4.53E-10
6506	456637.9	3768319	3.926E-09	2.01E-10	0.00E+00	4.13E-09	3.93E-09	2.01E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.45E-10	1.17E-11	0.00E+00	4.57E-10
6507	456634.1	3768310	3.962E-09	2.03E-10	0.00E+00	4.16E-09	3.96E-09	2.03E-10	0.00E+00	4.16E-09	1.19E-09	3.65E-11	0.00E+00	1.22E-09	4.49E-10	1.18E-11	0.00E+00	4.61E-10
6508	456630.3	3768301	3.998E-09	2.05E-10	0.00E+00	4.20E-09	4.00E-09	2.05E-10	0.00E+00	4.20E-09	1.20E-09	3.68E-11	0.00E+00	1.23E-09	4.54E-10	1.19E-11	0.00E+00	4.65E-10
6509	456626.5	3768292	4.034E-09	2.07E-10	0.00E+00	4.24E-09	4.03E-09	2.07E-10	0.00E+00	4.24E-09	1.21E-09	3.72E-11	0.00E+00	1.25E-09	4.58E-10	1.20E-11	0.00E+00	4.70E-10
6510	456622.7	3768283	4.07E-09	2.09E-10	0.00E+00	4.28E-09	4.07E-09	2.09E-10	0.00E+00	4.28E-09	1.22E-09	3.75E-11	0.00E+00	1.26E-09	4.62E-10	1.21E-11	0.00E+00	4.74E-10
6511	456618.9	3768274	4.106E-09	2.11E-10	0.00E+00	4.32E-09	4.11E-09	2.11E-10	0.00E+00	4.32E-09	1.23E-09	3.79E-11	0.00E+00	1.27E-09	4.66E-10	1.22E-11	0.00E+00	4.78E-10
6512	456615.1	3768265	4.143E-09	2.12E-10	0.00E+00	4.35E-09	4.14E-09	2.12E-10	0.00E+00	4.35E-09	1.24E-09	3.82E-11	0.00E+00	1.28E-09	4.70E-10	1.23E-11	0.00E+00	4.82E-10
6513	456611.3	3768256	4.179E-09	2.14E-10	0.00E+00	4.39E-09	4.18E-09	2.14E-10	0.00E+00	4.39E-09	1.25E-09	3.85E-11	0.00E+00	1.29E-09	4.74E-10	1.24E-11	0.00E+00	4.87E-10
6514	456607.5	3768247	4.215E-09	2.16E-10	0.00E+00	4.43E-09	4.22E-09	2.16E-10	0.00E+00	4.43E-09	1.26E-09	3.89E-11	0.00E+00	1.30E-09	4.78E-10	1.25E-11	0.00E+00	4.91E-10
6515	457334	3768952	2.718E-09	1.39E-10	0.00E+00	2.86E-09	2.72E-09	1.39E-10	0.00E+00	2.86E-09	8.14E-10	2.51E-11	0.00E+00	8.39E-10	3.08E-10	8.09E-12	0.00E+00	3.16E-10
6516	457343.9	3768952	2.739E-09	1.40E-10	0.00E+00	2.88E-09	2.74E-09	1.40E-10	0.00E+00	2.88E-09	8.20E-10	2.52E-11	0.00E+00	8.45E-10	3.11E-10	8.15E-12	0.00E+00	3.19E-10
6517	457353.9	3768952	2.76E-09	1.41E-10	0.00E+00	2.90E-09	2.76E-09	1.41E-10	0.00E+00	2.90E-09	8.27E-10	2.54E-11	0.00E+00	8.52E-10	3.13E-10	8.21E-12	0.00E+00	3.21E-10
6518	457363.9	3768952	2.782E-09	1.43E-10	0.00E+00	2.92E-09	2.78E-09	1.43E-10	0.00E+00	2.92E-09	8.33E-10	2.56E-11	0.00E+00	8.59E-10	3.16E-10	8.28E-12	0.00E+00	3.24E-10
6519	457373.9	3768952	2.804E-09	1.44E-10	0.00E+00	2.95E-09	2.80E-09	1.44E-10	0.00E+00	2.95E-09	8.40E-10	2.58E-11	0.00E+00	8.66E-10	3.18E-10	8.34E-12	0.00E+00	3.26E-10
6520	457383.8	3768952	2.827E-09	1.45E-10	0.00E+00	2.97E-09	2.83E-09	1.45E-10	0.00E+00	2.97E-09	8.47E-10	2.61E-11	0.00E+00	8.73E-10	3.21E-10	8.41E-12	0.00E+00	3.29E-10
6521	457393.8	3768952	2.849E-09	1.46E-10	0.00E+00	3.00E-09	2.85E-09	1.46E-10	0.00E+00	3.00E-09	8.53E-10	2.63E-11	0.00E+00	8.80E-10	3.23E-10	8.48E-12	0.00E+00	3.32E-10
6522	457403.8	3768952	2.869E-09	1.47E-10	0.00E+00	3.02E-09	2.87E-09	1.47E-10	0.00E+00	3.02E-09	8.59E-10	2.64E-11	0.00E+00	8.86E-10	3.26E-10	8.54E-12	0.00E+00	3.34E-10
6523	457413.7	3768952	2.89E-09	1.48E-10	0.00E+00	3.04E-09	2.89E-09	1.48E-10	0.00E+00	3.04E-09	8.66E-10	2.66E-11	0.00E+00	8.92E-10	3.28E-10	8.60E-12	0.00E+00	3.36E-10
6524	457423.7	3768952	2.913E-09	1.49E-10	0.00E+00	3.06E-09	2.91E-09	1.49E-10	0.00E+00	3.06E-09	8.73E-10	2.69E-11	0.00E+00	8.99E-10	3.31E-10	8.67E-12	0.00E+00	3.39E-10
6525	457433.7	3768952	2.94E-09	1.51E-10	0.00E+00	3.09E-09	2.94E-09	1.51E-10	0.00E+00	3.09E-09	8.80E-10	2.71E-11	0.00E+00	9.08E-10	3.34E-10	8.75E-12	0.00E+00	3.42E-10
6526	457443.7	3768952	2.967E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.89E-10	2.73E-11	0.00E+00	9.16E-10	3.37E-10	8.83E-12	0.00E+00	3.45E-10
6527	457453.6	3768952	2.994E-09	1.54E-10	0.00E+00	3.15E-09	2.99E-09	1.54E-10	0.00E+00	3.15E-09	8.97E-10	2.76E-11	0.00E+00	9.24E-10	3.40E-10	8.91E-12	0.00E+00	3.49E-10
6528	457463.6	3768952	3.022E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.05E-10	2.79E-11	0.00E+00	9.33E-10	3.43E-10	8.99E-12	0.00E+00	3.52E-10
6529	457473.6	3768952	3.051E-09	1.56E-10	0.00E+00	3.21E-09	3.05E-09	1.56E-10	0.00E+00	3.21E-09	9.14E-10	2.81E-11	0.00E+00	9.42E-10	3.46E-10	9.08E-12	0.00E+00	3.55E-10
6530	457483.5	3768952	3.081E-09	1.58E-10	0.00E+00	3.24E-09	3.08E-09	1.58E-10	0.00E+00	3.24E-09	9.23E-10	2.84E-11	0.00E+00	9.51E-10	3.50E-10	9.17E-12	0.00E+00	3.59E-10
6531	457493.5	3768952	3.112E-09	1.60E-10	0.00E+00	3.27E-09	3.11E-09	1.60E-10	0.00E+00	3.27E-09	9.32E-10	2.87E-11	0.00E+00	9.61E-10	3.53E-10	9.26E-12	0.00E+00	3.62E-10
6532	457503.5	3768952	3.144E-09	1.61E-10	0.00E+00	3.31E-09	3.14E-09	1.61E-10	0.00E+00	3.31E-09	9.42E-10	2.90E-11	0.00E+00	9.71E-10	3.57E-10	9.36E-12	0.00E+00	3.66E-10
6533	457513.4	3768952	3.176E-09	1.63E-10	0.00E+00	3.34E-09	3.18E-09	1.63E-10	0.00E+00	3.34E-09	9.51E-10	2.93E-11	0.00E+00	9.80E-10	3.60E-10	9.45E-12	0.00E+00	3.70E-10
6534	457523.4	3768952	3.205E-09	1.64E-10	0.00E+00	3.37E-09	3.20E-09	1.64E-10	0.00E+00	3.37E-09	9.60E-10	2.95E-11	0.00E+00	9.89E-10	3.64E-10	9.54E-12	0.00E+00	3.73E-10
6535	457533.4	3768952	3.234E-09	1.66E-10	0.00E+00	3.40E-09	3.23E-09	1.66E-10	0.00E+00	3.40E-09	9.69E-10	2.98E-11	0.00E+00	9.98E-10	3.67E-10	9.62E-12	0.00E+00	3.77E-10
6536	457543.4	3768952	3.267E-09	1.67E-10	0.00E+00	3.43E-09	3.27E-09	1.67E-10	0.00E+00	3.43E-09	9.78E-10	3.01E-11	0.00E+00	1.01E-09	3.71E-10	9.72E-12	0.00E+00	3.80E-10
6537	457553.3	3768952	3.304E-09	1.69E-10	0.00E+00	3.47E-09	3.30E-09	1.69E-10	0.00E+00	3.47E-09	9.89E-10	3.05E-11	0.00E+00	1.02E-09	3.75E-10	9.83E-12	0.00E+00	3.85E-10
6538	457563.3	3768952	3.342E-09	1.71E-10	0.00E+00	3.51E-09	3.34E-09	1.71E-10	0.00E+00	3.51E-09	1.00E-09	3.08E-11	0.00E+00	1.03E-09	3.79E-10	9.94E-12	0.00E+00	3.89E-10
6539	457573.3	3768952	3.38E-09	1.73E-10	0.00E+00	3.55E-09	3.38E-09	1.73E-10	0.00E+00	3.55E-09	1.01E-09	3.12E-11	0.00E+00	1.04E-09	3.84E-10	1.01E-11	0.00E+00	3.94E-10
6540	457583.2	3768952	3.419E-09	1.75E-10	0.00E+00	3.59E-09	3.42E-09	1.75E-10	0.00E+00	3.59E-09	1.02E-09	3.15E-11	0.00E+00	1.06E-09	3.88E-10	1.02E-11	0.00E+00	3.98E-10
6541	457593.2	3768952	3.459E-09	1.77E-10	0.00E+00	3.64E-09	3.46E-09	1.77E-10	0.00E+00	3.64E-09	1.04E-09	3.19E-11	0.00E+00	1.07E-09	3.92E-10	1.03E-11	0.00E+00	4.03E-10
6542	457603.2	3768952	3.499E-09	1.79E-10	0.00E+00	3.68E-09	3.50E-09	1.79E-10	0.00E+00	3.68E-09	1.05E-09	3.23E-11	0.00E+00	1.08E-09	3.97E-10	1.04E-11	0.00E+00	4.07E-10
6543	457613.1	3768952	3.536E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6544	457623.1	3768952	3.575E-09	1.83E-10	0.00E+00	3.76E-09	3.57E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.16E-10
6545	457633.1	3768952	3.617E-09	1.85E-10	0.00E+00	3.80E-09	3.62E-09	1.85E-10	0.00E+00	3.80E-09	1.08E-09	3.33E-11	0.00E+00	1.12E-09	4.10E-10	1.08E-11	0.00E+00	4.21E-10
6546	457643.1	3768952	3.664E-09	1.88E-10	0.00E+00	3.85E-09	3.66E-09	1.88E-10	0.00E+00	3.85E-09	1.10E-09	3.38E-11	0.00E+00	1.13E-09	4.16E-10	1.09E-11	0.00E+00	4.27E-10
6547	457653	3768952	3.713E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.15E-09	4.21E-10	1.10E-11	0.00E+00	4.32E-10
6548	457663	3768952	3.764E-09	1.93E-10	0.00E+00	3.96E-09	3.76E-09	1.93E-10	0.00E+00	3.96E-09	1.13E-09	3.47E-11	0.00E+00	1.16E-09	4.27E-10	1.12E-11	0.00E+00	4.38E-10
6549	457673	3768952	3.816E-09	1.96E-10	0.00E+00	4.01E-09	3.82E-09	1.96E-10	0.00E+00	4.01E-09	1.14E-09	3.52E-11	0.00E+00	1.18E-09	4.33E-10	1.14E-11	0.00E+00	4.44E-10
6550	457682.9	3768952	3.87E-09	1.98E-10	0.00E+00	4.07E-09	3.87E-09	1.98E-10	0.00E+00	4.07E-09	1.16E-09	3.57E-11	0.00E+00	1.19E-09	4.39E-10	1.15E-11	0.00E+00	4.51E-10
6551	457692.9	3768952	3.926E-09	2.01E-10	0.00E+00	4.13E-09	3.93E-09	2.01E-10	0.00E+00	4.13E-09	1.18E-09	3.62E-11	0.00E+00	1.21E-09	4.45E-10	1.17E-11	0.00E+00	4.57E-10
6552	457702.9	3768952	3.981E-09	2.04E-10	0.00E+00	4.19E-09	3.98E-09	2.04E-10	0.00E+00	4.19E-09	1.19E-09	3.67E-11	0.00E+00	1.23E-09	4.52E-10	1.18E-11	0.00E+00	4.64E-10
6553	457296.8	3768981	2.495E-09	1.28E-10	0.00E+00	2.62E-09	2.49E-09	1.28E-10	0.00E+00	2.62E-09	7.47E-10	2.30E-11	0.00E+00	7.70E-10	2.83E-10	7.42E-12	0.00E+00	2.90E-10
6554	457287.7	3768977	2.497E-09	1.28E-10	0.00E+00	2.63E-09	2.50E-09	1.28E-10	0.00E+00	2.63E-09	7.48E-10	2.30E-11	0.00E+00	7.71E-10	2.83E-10	7.43E-12	0.00E+00	2.91E-10
6555	457278.6	3768973	2.501E-09	1.28E-10	0.00E+00	2.63E-09	2.50E-09	1.28E-10	0.00E+00	2.63E-09	7.49E-10	2.31E-11	0.00E+00	7.72E-10	2.84E-10	7.44E-12	0.00E+00	2.91E-10
6556	457269.6	3768970	2.506E-09	1.28E-10	0.00E+00	2.63E-09	2.51E-09	1.28E-10	0.00E+00	2.63E-09	7.50E-10	2.31E-11	0.00E+00	7.74E-10	2.84E-10	7.46E-12	0.00E+00	2.92E-10
6557	457260.5	3768966	2.512E-09	1.29E-10	0.00E+00	2.64E-09	2.51E-09	1.29E-10	0.00E+00	2.64E-09	7.52E-10	2.32E-11	0.00E+00	7.76E-10	2.85E-10	7.48E-12	0.00E+00	2.92E-10
6558	457251.4	3768962	2.518E-09	1.29E-10	0.00E+00	2.65E-09	2.52E-09	1.29E-10	0.00E+00	2.65E-09	7.54E-10	2.32E-11	0.00E+00	7.77E-10	2.86E-10	7.49E-12	0.00E+00	2.93E-10
6559	457242.3	3768959	2.523E-09	1.29E-10	0.00E+00	2.65E-09	2.52E-09	1.29E-10	0.00E+00	2.65E-09	7.56E-10	2.33E-11	0.00E+00	7.79E-10	2.86E-10	7.51E-12	0.00E+00	2.94E-10
6560	457233.3	3768955	2.527E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.57E-10	2.33E-11	0.00E+00	7.80E-10	2.87E-10	7.52E-12	0.00E+00	2.94E-10
6561	457224.2	3768951	2.53E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.58E-10	2.33E-11	0.00E+00	7.81E-10	2.87E-10	7.53E-12	0.00E+00	2.95E-10
6562	457215.1	3768947	2.533E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.59E-10	2.33E-11	0.00E+00	7.82E-10	2.87E-10	7.54E-12	0.00E+00	2.95E-10
6563	457206	3768944	2.537E-09	1.30E-10	0.00E+00	2.67E-09	2.54E-09	1.30E-10	0.00E+00	2.67E-09	7.60E-10	2.34E-11	0.00E+00	7.83E-10	2.88E-10	7.55E-12	0.00E+00	2.95E-10
6564	457196.9	3768940	2.542E-09	1.30E-10	0.00E+00	2.67E-09	2.54E-09	1.30E-10	0.00E+00	2.67E-09	7.61E-10	2.34E-11	0.00E+00	7.85E-10	2.88E-10	7.56E-12	0.00E+00	2.96E-10
6565	457187.9	3768936	2.546E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.63E-10	2.35E-11	0.00E+00	7.86E-10	2.89E-10	7.58E-12	0.00E+00	2.96E-10
6566	457178.8	3768932	2.55E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.64E-10	2.35E-11	0.00E+00	7.87E-10	2.89E-10	7.59E-12	0.00E+00	2.97E-10
6567	457169.7	3768929	2.555E-09	1.31E-10	0.00E+00	2.69E-09	2.55E-09	1.31E-10	0.00E+00	2.69E-09	7.65E-10	2.36E-11	0.00E+00	7.89E-10	2.90E-10	7.60E-12	0.00E+00	2.97E-10
6568	457160.6	3768925	2.559E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.66E-10	2.36E-11	0.00E+00	7.90E-10	2.90E-10	7.61E-12	0.00E+00	2.98E-10
6569	457151.6	3768921	2.562E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.67E-10	2.36E-11	0.00E+00	7.91E-10	2.91E-10	7.62E-12	0.00E+00	2.98E-10
6570	457142.5	3768917	2.564E-09	1.31E-10	0.00E+00	2.70E-09	2.56E-09	1.31E-10	0.00E+00	2.70E-09	7.68E-10	2.36E-11	0.00E+00	7.92E-10	2.91E-10	7.63E-12	0.00E+00	2.99E-10
6571	457133.4	3768914	2.567E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.69E-10	2.37E-11	0.00E+00	7.92E-10	2.91E-10	7.64E-12	0.00E+00	2.99E-10
6572	457124.3	3768910	2.57E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.70E-10	2.37E-11	0.00E+00	7.93E-10	2.92E-10	7.65E-12	0.00E+00	2.99E-10
6573	457115.3	3768906	2.572E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.70E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.65E-12	0.00E+00	2.99E-10
6574	457106.2	3768903	2.573E-09	1.32E-10	0.00E+00	2.71E-09	2.57E-09	1.32E-10	0.00E+00	2.71E-09	7.71E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6575	457097.1	3768899	2.575E-09	1.32E-10	0.00E+00	2.71E-09	2.57E-09	1.32E-10	0.00E+00	2.71E-09	7.71E-10	2.37E-11	0.00E+00	7.95E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6576	457088	3768895	2.576E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.72E-10	2.37E-11	0.00E+00	7.95E-10	2.92E-10	7.67E-12	0.00E+00	3.00E-10
6577	457078.9	3768891	2.577E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.72E-10	2.38E-11	0.00E+00	7.95E-10	2.92E-10	7.67E-12	0.00E+00	3.00E-10
6578	457069.9	3768888	2.577E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.72E-10	2.38E-11	0.00E+00	7.96E-10	2.92E-10	7.67E-12	0.00E+00	3.00E-10
6579	457060.8	3768884	2.577E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.72E-10	2.38E-11	0.00E+00	7.95E-10	2.92E-10	7.67E-12	0.00E+00	3.00E-10
6580	457051.7	3768880	2.576E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.72E-10	2.37E-11	0.00E+00	7.95E-10	2.92E-10	7.67E-12	0.00E+00	3.00E-10
6581	457042.6	3768876	2.575E-09	1.32E-10	0.00E+00	2.71E-09	2.57E-09	1.32E-10	0.00E+00	2.71E-09	7.71E-10	2.37E-11	0.00E+00	7.95E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6582	457033.6	3768873	2.573E-09	1.32E-10	0.00E+00	2.71E-09	2.57E-09	1.32E-10	0.00E+00	2.71E-09	7.71E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6583	457024.5	3768869	2.571E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.70E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.65E-12	0.00E+00	2.99E-10
6584	457015.4	3768865	2.569E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.69E-10	2.37E-11	0.00E+00	7.93E-10	2.91E-10	7.64E-12	0.00E+00	2.99E-10
6585	457006.3	3768861	2.566E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.68E-10	2.37E-11	0.00E+00	7.92E-10	2.91E-10	7.63E-12	0.00E+00	2.99E-10
6586	456997.2	3768858	2.562E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.67E-10	2.36E-11	0.00E+00	7.91E-10	2.91E-10	7.62E-12	0.00E+00	2.98E-10
6587	456988.2	3768854	2.563E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.68E-10	2.36E-11	0.00E+00	7.91E-10	2.91E-10	7.63E-12	0.00E+00	2.98E-10
6588	456979.1	3768850	2.558E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.66E-10	2.36E-11	0.00E+00	7.90E-10	2.90E-10	7.61E-12	0.00E+00	2.98E-10
6589	456970	3768846	2.552E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.64E-10	2.35E-11	0.00E+00	7.88E-10	2.90E-10	7.60E-12	0.00E+00	2.97E-10
6590	456960.9	3768843	2.546E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.63E-10	2.35E-11	0.00E+00	7.86E-10	2.89E-10	7.58E-12	0.00E+00	2.96E-10
6591	456951.9	3768839	2.54E-09	1.30E-10	0.00E+00	2.67E-09	2.54E-09	1.30E-10	0.00E+00	2.67E-09	7.61E-10	2.34E-11	0.00E+00	7.84E-10	2.88E-10	7.56E-12	0.00E+00	2.96E-10
6592	456942.8	3768835	2.533E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.59E-10	2.33E-11	0.00E+00	7.82E-10	2.87E-10	7.54E-12	0.00E+00	2.95E-10
6593	456933.7	3768832	2.526E-09	1.29E-10	0.00E+00	2.66E-09	2.53E-09	1.29E-10	0.00E+00	2.66E-09	7.57E-10	2.33E-11	0.00E+00	7.80E-10	2.87E-10	7.52E-12	0.00E+00	2.94E-10
6594	456924.6	3768828	2.518E-09	1.29E-10	0.00E+00	2.65E-09	2.52E-09	1.29E-10	0.00E+00	2.65E-09	7.54E-10	2.32E-11	0.00E+00	7.77E-10	2.86E-10	7.49E-12	0.00E+00	2.93E-10
6595	456897.4	3768817	2.493E-09	1.28E-10	0.00E+00	2.62E-09	2.49E-09	1.28E-10	0.00E+00	2.62E-09	7.47E-10	2.30E-11	0.00E+00	7.70E-10	2.83E-10	7.42E-12	0.00E+00	2.90E-10
6596	456888.3	3768813	2.484E-09	1.27E-10	0.00E+00	2.61E-09	2.48E-09	1.27E-10	0.00E+00	2.61E-09	7.44E-10	2.29E-11	0.00E+00	7.67E-10	2.82E-10	7.39E-12	0.00E+00	2.89E-10
6597	456879.2	3768809	2.474E-09	1.27E-10	0.00E+00	2.60E-09	2.47E-09	1.27E-10	0.00E+00	2.60E-09	7.41E-10	2.28E-11	0.00E+00	7.64E-10	2.81E-10	7.36E-12	0.00E+00	2.88E-10
6598	456870.2	3768805	2.464E-09	1.26E-10	0.00E+00	2.59E-09	2.46E-09	1.26E-10	0.00E+00	2.59E-09	7.38E-10	2.27E-11	0.00E+00	7.61E-10	2.80E-10	7.33E-12	0.00E+00	2.87E-10
6599	456861.1	3768802	2.454E-09	1.26E-10	0.00E+00	2.58E-09	2.45E-09	1.26E-10	0.00E+00	2.58E-09	7.35E-10	2.26E-11	0.00E+00	7.58E-10	2.78E-10	7.30E-12	0.00E+00	2.86E-10
6600	456852	3768798	2.444E-09	1.25E-10	0.00E+00	2.57E-09	2.44E-09	1.25E-10	0.00E+00	2.57E-09	7.32E-10	2.25E-11	0.00E+00	7.55E-10	2.77E-10	7.27E-12	0.00E+00	2.85E-10
6601	456842.9	3768794	2.434E-09	1.25E-10	0.00E+00	2.56E-09	2.43E-09	1.25E-10	0.00E+00	2.56E-09	7.29E-10	2.24E-11	0.00E+00	7.51E-10	2.76E-10	7.24E-12	0.00E+00	2.83E-10
6602	456833.9	3768790	2.423E-09	1.24E-10	0.00E+00	2.55E-09	2.42E-09	1.24E-10	0.00E+00	2.55E-09	7.26E-10	2.23E-11	0.00E+00	7.48E-10	2.75E-10	7.21E-12	0.00E+00	2.82E-10
6603	456824.8	3768787	2.412E-09	1.24E-10	0.00E+00	2.54E-09	2.41E-09	1.24E-10	0.00E+00	2.54E-09	7.23E-10	2.22E-11	0.00E+00	7.45E-10	2.74E-10	7.18E-12	0.00E+00	2.81E-10
6604	456815.7	3768783	2.401E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.19E-10	2.21E-11	0.00E+00	7.41E-10	2.72E-10	7.15E-12	0.00E+00	2.80E-10
6605	456806.6	3768779	2.39E-09	1.23E-10	0.00E+00	2.51E-09	2.39E-09	1.23E-10	0.00E+00	2.51E-09	7.16E-10	2.20E-11	0.00E+00	7.38E-10	2.71E-10	7.11E-12	0.00E+00	2.78E-10

6606	456797.5	3768775	2.379E-09	1.22E-10	0.00E+00	2.50E-09	2.38E-09	1.22E-10	0.00E+00	2.50E-09	7.12E-10	2.19E-11	0.00E+00	7.34E-10	2.70E-10	7.08E-12	0.00E+00	2.77E-10
6607	456784.7	3768763	2.388E-09	1.22E-10	0.00E+00	2.51E-09	2.39E-09	1.22E-10	0.00E+00	2.51E-09	7.15E-10	2.20E-11	0.00E+00	7.37E-10	2.71E-10	7.10E-12	0.00E+00	2.78E-10
6608	456780.9	3768754	2.408E-09	1.23E-10	0.00E+00	2.53E-09	2.41E-09	1.23E-10	0.00E+00	2.53E-09	7.21E-10	2.22E-11	0.00E+00	7.43E-10	2.73E-10	7.16E-12	0.00E+00	2.80E-10
6609	456777	3768745	2.428E-09	1.24E-10	0.00E+00	2.55E-09	2.43E-09	1.24E-10	0.00E+00	2.55E-09	7.27E-10	2.24E-11	0.00E+00	7.50E-10	2.75E-10	7.22E-12	0.00E+00	2.83E-10
6610	456773.2	3768736	2.448E-09	1.26E-10	0.00E+00	2.57E-09	2.45E-09	1.26E-10	0.00E+00	2.57E-09	7.33E-10	2.26E-11	0.00E+00	7.56E-10	2.78E-10	7.28E-12	0.00E+00	2.85E-10
6611	456769.4	3768727	2.468E-09	1.27E-10	0.00E+00	2.59E-09	2.47E-09	1.27E-10	0.00E+00	2.59E-09	7.39E-10	2.28E-11	0.00E+00	7.62E-10	2.80E-10	7.34E-12	0.00E+00	2.87E-10
6612	456765.6	3768717	2.489E-09	1.28E-10	0.00E+00	2.62E-09	2.49E-09	1.28E-10	0.00E+00	2.62E-09	7.45E-10	2.29E-11	0.00E+00	7.68E-10	2.82E-10	7.41E-12	0.00E+00	2.90E-10
6613	456761.8	3768708	2.509E-09	1.29E-10	0.00E+00	2.64E-09	2.51E-09	1.29E-10	0.00E+00	2.64E-09	7.52E-10	2.31E-11	0.00E+00	7.75E-10	2.85E-10	7.47E-12	0.00E+00	2.92E-10
6614	456758	3768699	2.531E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.58E-10	2.33E-11	0.00E+00	7.81E-10	2.87E-10	7.53E-12	0.00E+00	2.95E-10
6615	456754.2	3768690	2.552E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.64E-10	2.35E-11	0.00E+00	7.88E-10	2.90E-10	7.59E-12	0.00E+00	2.97E-10
6616	456750.4	3768681	2.573E-09	1.32E-10	0.00E+00	2.71E-09	2.57E-09	1.32E-10	0.00E+00	2.71E-09	7.71E-10	2.37E-11	0.00E+00	7.94E-10	2.92E-10	7.66E-12	0.00E+00	3.00E-10
6617	456746.6	3768672	2.595E-09	1.33E-10	0.00E+00	2.73E-09	2.59E-09	1.33E-10	0.00E+00	2.73E-09	7.77E-10	2.39E-11	0.00E+00	8.01E-10	2.94E-10	7.72E-12	0.00E+00	3.02E-10
6618	456742.8	3768663	2.616E-09	1.34E-10	0.00E+00	2.75E-09	2.62E-09	1.34E-10	0.00E+00	2.75E-09	7.84E-10	2.41E-11	0.00E+00	8.08E-10	2.97E-10	7.79E-12	0.00E+00	3.05E-10
6619	456738.9	3768654	2.638E-09	1.35E-10	0.00E+00	2.77E-09	2.64E-09	1.35E-10	0.00E+00	2.77E-09	7.90E-10	2.43E-11	0.00E+00	8.14E-10	2.99E-10	7.85E-12	0.00E+00	3.07E-10
6620	456735.1	3768645	2.66E-09	1.36E-10	0.00E+00	2.80E-09	2.66E-09	1.36E-10	0.00E+00	2.80E-09	7.97E-10	2.45E-11	0.00E+00	8.21E-10	3.02E-10	7.92E-12	0.00E+00	3.10E-10
6621	456731.3	3768636	2.683E-09	1.38E-10	0.00E+00	2.82E-09	2.68E-09	1.38E-10	0.00E+00	2.82E-09	8.04E-10	2.47E-11	0.00E+00	8.28E-10	3.04E-10	7.98E-12	0.00E+00	3.12E-10
6622	456727.5	3768627	2.706E-09	1.39E-10	0.00E+00	2.84E-09	2.71E-09	1.39E-10	0.00E+00	2.84E-09	8.10E-10	2.49E-11	0.00E+00	8.35E-10	3.07E-10	8.05E-12	0.00E+00	3.15E-10
6623	456723.7	3768618	2.729E-09	1.40E-10	0.00E+00	2.87E-09	2.73E-09	1.40E-10	0.00E+00	2.87E-09	8.17E-10	2.52E-11	0.00E+00	8.43E-10	3.10E-10	8.12E-12	0.00E+00	3.18E-10
6624	456719.9	3768609	2.752E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.24E-10	2.54E-11	0.00E+00	8.50E-10	3.12E-10	8.19E-12	0.00E+00	3.20E-10
6625	456716.1	3768600	2.776E-09	1.42E-10	0.00E+00	2.92E-09	2.78E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.57E-10	3.15E-10	8.26E-12	0.00E+00	3.23E-10
6626	456712.3	3768591	2.8E-09	1.44E-10	0.00E+00	2.94E-09	2.80E-09	1.44E-10	0.00E+00	2.94E-09	8.39E-10	2.58E-11	0.00E+00	8.64E-10	3.18E-10	8.33E-12	0.00E+00	3.26E-10
6627	456708.5	3768582	2.824E-09	1.45E-10	0.00E+00	2.97E-09	2.82E-09	1.45E-10	0.00E+00	2.97E-09	8.46E-10	2.60E-11	0.00E+00	8.72E-10	3.20E-10	8.40E-12	0.00E+00	3.29E-10
6628	456704.7	3768573	2.849E-09	1.46E-10	0.00E+00	3.00E-09	2.85E-09	1.46E-10	0.00E+00	3.00E-09	8.53E-10	2.63E-11	0.00E+00	8.80E-10	3.23E-10	8.48E-12	0.00E+00	3.32E-10
6629	456700.9	3768564	2.874E-09	1.47E-10	0.00E+00	3.02E-09	2.87E-09	1.47E-10	0.00E+00	3.02E-09	8.61E-10	2.65E-11	0.00E+00	8.87E-10	3.26E-10	8.55E-12	0.00E+00	3.35E-10
6630	456697	3768555	2.899E-09	1.49E-10	0.00E+00	3.05E-09	2.90E-09	1.49E-10	0.00E+00	3.05E-09	8.68E-10	2.67E-11	0.00E+00	8.95E-10	3.29E-10	8.63E-12	0.00E+00	3.38E-10
6631	456693.2	3768546	2.925E-09	1.50E-10	0.00E+00	3.07E-09	2.92E-09	1.50E-10	0.00E+00	3.07E-09	8.76E-10	2.70E-11	0.00E+00	9.03E-10	3.32E-10	8.70E-12	0.00E+00	3.41E-10
6632	456689.4	3768537	2.951E-09	1.51E-10	0.00E+00	3.10E-09	2.95E-09	1.51E-10	0.00E+00	3.10E-09	8.84E-10	2.72E-11	0.00E+00	9.11E-10	3.35E-10	8.78E-12	0.00E+00	3.44E-10
6633	456685.6	3768527	2.977E-09	1.53E-10	0.00E+00	3.13E-09	2.98E-09	1.53E-10	0.00E+00	3.13E-09	8.92E-10	2.74E-11	0.00E+00	9.19E-10	3.38E-10	8.86E-12	0.00E+00	3.47E-10
6634	456681.8	3768518	3.004E-09	1.54E-10	0.00E+00	3.16E-09	3.00E-09	1.54E-10	0.00E+00	3.16E-09	9.00E-10	2.77E-11	0.00E+00	9.27E-10	3.41E-10	8.94E-12	0.00E+00	3.50E-10
6635	456678	3768509	3.031E-09	1.55E-10	0.00E+00	3.19E-09	3.03E-09	1.55E-10	0.00E+00	3.19E-09	9.08E-10	2.79E-11	0.00E+00	9.36E-10	3.44E-10	9.02E-12	0.00E+00	3.53E-10
6636	456674.2	3768500	3.059E-09	1.57E-10	0.00E+00	3.22E-09	3.06E-09	1.57E-10	0.00E+00	3.22E-09	9.16E-10	2.82E-11	0.00E+00	9.44E-10	3.47E-10	9.10E-12	0.00E+00	3.56E-10
6637	456670.4	3768491	3.086E-09	1.58E-10	0.00E+00	3.24E-09	3.09E-09	1.58E-10	0.00E+00	3.24E-09	9.24E-10	2.84E-11	0.00E+00	9.53E-10	3.50E-10	9.18E-12	0.00E+00	3.59E-10
6638	456666.6	3768482	3.115E-09	1.60E-10	0.00E+00	3.27E-09	3.11E-09	1.60E-10	0.00E+00	3.27E-09	9.33E-10	2.87E-11	0.00E+00	9.62E-10	3.53E-10	9.27E-12	0.00E+00	3.63E-10
6639	456662.8	3768473	3.144E-09	1.61E-10	0.00E+00	3.30E-09	3.14E-09	1.61E-10	0.00E+00	3.30E-09	9.42E-10	2.90E-11	0.00E+00	9.71E-10	3.57E-10	9.35E-12	0.00E+00	3.66E-10
6640	456658.9	3768464	3.173E-09	1.63E-10	0.00E+00	3.34E-09	3.17E-09	1.63E-10	0.00E+00	3.34E-09	9.50E-10	2.92E-11	0.00E+00	9.79E-10	3.60E-10	9.44E-12	0.00E+00	3.69E-10
6641	456655.1	3768455	3.202E-09	1.64E-10	0.00E+00	3.37E-09	3.20E-09	1.64E-10	0.00E+00	3.37E-09	9.59E-10	2.95E-11	0.00E+00	9.89E-10	3.63E-10	9.53E-12	0.00E+00	3.73E-10
6642	456639.9	3768419	3.323E-09	1.70E-10	0.00E+00	3.49E-09	3.32E-09	1.70E-10	0.00E+00	3.49E-09	9.95E-10	3.06E-11	0.00E+00	1.03E-09	3.77E-10	9.89E-12	0.00E+00	3.87E-10
6643	456636.1	3768410	3.354E-09	1.72E-10	0.00E+00	3.53E-09	3.35E-09	1.72E-10	0.00E+00	3.53E-09	1.00E-09	3.09E-11	0.00E+00	1.04E-09	3.80E-10	9.98E-12	0.00E+00	3.90E-10
6644	456632.3	3768401	3.385E-09	1.74E-10	0.00E+00	3.56E-09	3.38E-09	1.74E-10	0.00E+00	3.56E-09	1.01E-09	3.12E-11	0.00E+00	1.05E-09	3.84E-10	1.01E-11	0.00E+00	3.94E-10
6645	456628.5	3768392	3.416E-09	1.75E-10	0.00E+00	3.59E-09	3.42E-09	1.75E-10	0.00E+00	3.59E-09	1.02E-09	3.15E-11	0.00E+00	1.05E-09	3.88E-10	1.02E-11	0.00E+00	3.98E-10
6646	456624.7	3768383	3.448E-09	1.77E-10	0.00E+00	3.63E-09	3.45E-09	1.77E-10	0.00E+00	3.63E-09	1.03E-09	3.18E-11	0.00E+00	1.06E-09	3.91E-10	1.03E-11	0.00E+00	4.01E-10
6647	456620.9	3768374	3.48E-09	1.78E-10	0.00E+00	3.66E-09	3.48E-09	1.78E-10	0.00E+00	3.66E-09	1.04E-09	3.21E-11	0.00E+00	1.07E-09	3.95E-10	1.04E-11	0.00E+00	4.05E-10
6648	456617	3768365	3.512E-09	1.80E-10	0.00E+00	3.69E-09	3.51E-09	1.80E-10	0.00E+00	3.69E-09	1.05E-09	3.24E-11	0.00E+00	1.08E-09	3.98E-10	1.05E-11	0.00E+00	4.09E-10
6649	456613.2	3768356	3.544E-09	1.82E-10	0.00E+00	3.73E-09	3.54E-09	1.82E-10	0.00E+00	3.73E-09	1.06E-09	3.27E-11	0.00E+00	1.09E-09	4.02E-10	1.05E-11	0.00E+00	4.13E-10
6650	456609.4	3768347	3.576E-09	1.83E-10	0.00E+00	3.76E-09	3.58E-09	1.83E-10	0.00E+00	3.76E-09	1.07E-09	3.30E-11	0.00E+00	1.10E-09	4.06E-10	1.06E-11	0.00E+00	4.16E-10
6651	456605.6	3768338	3.609E-09	1.85E-10	0.00E+00	3.79E-09	3.61E-09	1.85E-10	0.00E+00	3.79E-09	1.08E-09	3.33E-11	0.00E+00	1.11E-09	4.09E-10	1.07E-11	0.00E+00	4.20E-10
6652	456601.8	3768328	3.641E-09	1.87E-10	0.00E+00	3.83E-09	3.64E-09	1.87E-10	0.00E+00	3.83E-09	1.09E-09	3.36E-11	0.00E+00	1.12E-09	4.13E-10	1.08E-11	0.00E+00	4.24E-10
6653	456598	3768319	3.674E-09	1.88E-10	0.00E+00	3.86E-09	3.67E-09	1.88E-10	0.00E+00	3.86E-09	1.10E-09	3.39E-11	0.00E+00	1.13E-09	4.17E-10	1.09E-11	0.00E+00	4.28E-10
6654	456594.2	3768310	3.707E-09	1.90E-10	0.00E+00	3.90E-09	3.71E-09	1.90E-10	0.00E+00	3.90E-09	1.11E-09	3.42E-11	0.00E+00	1.14E-09	4.21E-10	1.10E-11	0.00E+00	4.32E-10
6655	456590.4	3768301	3.739E-09	1.92E-10	0.00E+00	3.93E-09	3.74E-09	1.92E-10	0.00E+00	3.93E-09	1.12E-09	3.45E-11	0.00E+00	1.15E-09	4.24E-10	1.11E-11	0.00E+00	4.35E-10
6656	456586.6	3768292	3.772E-09	1.93E-10	0.00E+00	3.97E-09	3.77E-09	1.93E-10	0.00E+00	3.97E-09	1.13E-09	3.48E-11	0.00E+00	1.16E-09	4.28E-10	1.12E-11	0.00E+00	4.39E-10
6657	456582.8	3768283	3.805E-09	1.95E-10	0.00E+00	4.00E-09	3.80E-09	1.95E-10	0.00E+00	4.00E-09	1.14E-09	3.51E-11	0.00E+00	1.17E-09	4.32E-10	1.13E-11	0.00E+00	4.43E-10
6658	456578.9	3768274	3.837E-09	1.97E-10	0.00E+00	4.03E-09	3.84E-09	1.97E-10	0.00E+00	4.03E-09	1.15E-09	3.54E-11	0.00E+00	1.18E-09	4.35E-10	1.14E-11	0.00E+00	4.47E-10
6659	456575.1	3768265	3.869E-09	1.98E-10	0.00E+00	4.07E-09	3.87E-09	1.98E-10	0.00E+00	4.07E-09	1.16E-09	3.57E-11	0.00E+00	1.19E-09	4.39E-10	1.15E-11	0.00E+00	4.50E-10
6660	456571.3	3768256	3.901E-09	2.00E-10	0.00E+00	4.10E-09	3.90E-09	2.00E-10	0.00E+00	4.10E-09	1.17E-09	3.60E-11	0.00E+00	1.20E-09	4.43E-10	1.16E-11	0.00E+00	4.54E-10
6661	456567.5	3768247	3.933E-09	2.02E-10	0.00E+00	4.13E-09	3.93E-09	2.02E-10	0.00E+00	4.13E-09	1.18E-09	3.63E-11	0.00E+00	1.21E-09	4.46E-10	1.17E-11	0.00E+00	4.58E-10
6662	457334	3768992	2.505E-09	1.28E-10	0.00E+00	2.63E-09	2.51E-09	1.28E-10	0.00E+00	2.63E-09	7.50E-10	2.31E-11	0.00E+00	7.73E-10	2.84E-10	7.46E-12	0.00E+00	2.92E-10
6663	457344	3768992	2.523E-09	1.29E-10	0.00E+00	2.65E-09	2.52E-09	1.29E-10	0.00E+00	2.65E-09	7.56E-10	2.33E-11	0.00E+00	7.79E-10	2.86E-10	7.51E-12	0.00E+00	2.94E-10
6664	457353.9	3768992	2.542E-09	1.30E-10	0.00E+00	2.67E-09	2.54E-09	1.30E-10	0.00E+00	2.67E-09	7.61E-10	2.34E-11	0.00E+00	7.85E-10	2.88E-10	7.56E-12	0.00E+00	2.96E-10
6665	457363.9	3768992	2.561E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.67E-10	2.36E-11	0.00E+00	7.91E-10	2.91E-10	7.62E-12	0.00E+00	2.98E-10
6666	457373.9	3768992	2.58E-09	1.32E-10	0.00E+00	2.71E-09	2.58E-09	1.32E-10	0.00E+00	2.71E-09	7.73E-10	2.38E-11	0.00E+00	7.97E-10	2.93E-10	7.68E-12	0.00E+00	3.00E-10
6667	457383.8	3768992	2.601E-09	1.33E-10	0.00E+00	2.73E-09	2.60E-09	1.33E-10	0.00E+00	2.73E-09	7.79E-10	2.40E-11	0.00E+00	8.03E-10	2.95E-10	7.74E-12	0.00E+00	3.03E-10
6668	457393.8	3768992	2.621E-09	1.34E-10	0.00E+00	2.76E-09	2.62E-09	1.34E-10	0.00E+00	2.76E-09	7.85E-10	2.42E-11	0.00E+00	8.09E-10	2.97E-10	7.80E-12	0.00E+00	3.05E-10
6669	457403.8	3768992	2.643E-09	1.35E-10	0.00E+00	2.78E-09	2.64E-09	1.35E-10	0.00E+00	2.78E-09	7.92E-10	2.44E-11	0.00E+00	8.16E-10	3.00E-10	7.86E-12	0.00E+00	3.08E-10
6670	457413.8	3768992	2.665E-09	1.37E-10	0.00E+00	2.80E-09	2.66E-09	1.37E-10	0.00E+00	2.80E-09	7.98E-10	2.46E-11	0.00E+00	8.23E-10	3.02E-10	7.93E-12	0.00E+00	3.10E-10
6671	457423.7	3768992	2.686E-09	1.38E-10	0.00E+00	2.82E-09	2.69E-09	1.38E-10	0.00E+00	2.82E-09	8.05E-10	2.48E-11	0.00E+00	8.29E-10	3.05E-10	7.99E-12	0.00E+00	3.13E-10
6672	457433.7	3768992	2.707E-09	1.39E-10	0.00E+00	2.85E-09	2.71E-09	1.39E-10	0.00E+00	2.85E-09	8.11E-10	2.50E-11	0.00E+00	8.36E-10	3.07E-10	8.05E-12	0.00E+00	3.15E-10
6673	457443.7	3768992	2.728E-09	1.40E-10	0.00E+00	2.87E-09	2.73E-09	1.40E-10	0.00E+00	2.87E-09	8.17E-10	2.51E-11	0.00E+00	8.42E-10	3.10E-10	8.12E-12	0.00E+00	3.18E-10
6674	457453.6	3768992	2.75E-09	1.41E-10	0.00E+00	2.89E-09	2.75E-09	1.41E-10	0.00E+00	2.89E-09	8.24E-10	2.54E-11	0.00E+00	8.49E-10	3.12E-10	8.18E-12	0.00E+00	3.20E-10
6675	457463.6	3768992	2.773E-09	1.42E-10	0.00E+00	2.92E-09	2.77E-09	1.42E-10	0.00E+00	2.92E-09	8.31E-10	2.56E-11	0.00E+00	8.56E-10	3.15E-10	8.25E-12	0.00E+00	3.23E-10
6676	457473.6	3768992	2.797E-09	1.43E-10	0.00E+00	2.94E-09	2.80E-09	1.43E-10	0.00E+00	2.94E-09	8.38E-10	2.58E-11	0.00E+00	8.63E-10	3.17E-10	8.32E-12	0.00E+00	3.26E-10
6677	457483.6	3768992	2.821E-09	1.45E-10	0.00E+00	2.97E-09	2.82E-09	1.45E-10	0.00E+00	2.97E-09	8.45E-10	2.60E-11	0.00E+00	8.71E-10	3.20E-10	8.40E-12	0.00E+00	3.28E-10
6678	457493.5	3768992	2.849E-09	1.46E-10	0.00E+00	2.99E-09	2.85E-09	1.46E-10	0.00E+00	2.99E-09	8.53E-10	2.63E-11	0.00E+00	8.79E-10	3.23E-10	8.48E-12	0.00E+00	3.32E-10
6679	457503.5	3768992	2.877E-09	1.47E-10	0.00E+00	3.02E-09	2.88E-09	1.47E-10	0.00E+00	3.02E-09	8.62E-10	2.65E-11	0.00E+00	8.88E-10	3.26E-10	8.56E-12	0.00E+00	3.35E-10
6680	457513.5	3768992	2.904E-09	1.49E-10	0.00E+00	3.05E-09	2.90E-09	1.49E-10	0.00E+00	3.05E-09	8.70E-10	2.68E-11	0.00E+00	8.97E-10	3.29E-10	8.64E-12	0.00E+00	3.38E-10
6681	457523.4	3768992	2.931E-09	1.50E-10	0.00E+00	3.08E-09	2.93E-09	1.50E-10	0.00E+00	3.08E-09	8.78E-10	2.70E-11	0.00E+00	9.05E-10	3.32E-10	8.72E-12	0.00E+00	3.41E-10
6682	457533.4	3768992	2.958E-09	1.52E-10	0.00E+00	3.11E-09	2.96E-09	1.52E-10	0.00E+00	3.11E-09	8.86E-10	2.73E-11	0.00E+00	9.13E-10	3.36E-10	8.80E-12	0.00E+00	3.44E-10
6683	457543.4	3768992	2.987E-09	1.53E-10	0.00E+00	3.14E-09	2.99E-09	1.53E-10	0.00E+00	3.14E-09	8.95E-10	2.75E-11	0.00E+00	9.22E-10	3.39E-10	8.89E-12	0.00E+00	3.48E-10
6684	457553.3	3768992	3.019E-09	1.55E-10	0.00E+00	3.17E-09	3.02E-09	1.55E-10	0.00E+00	3.17E-09	9.04E-10	2.78E-11	0.00E+00	9.32E-10	3.42E-10	8.98E-12	0.00E+00	3.51E-10
6685	457563.3	3768992	3.051E-09	1.56E-10	0.00E+00	3.21E-09	3.05E-09	1.56E-10	0.00E+00	3.21E-09	9.14E-10	2.81E-11	0.00E+00	9.42E-10	3.46E-10	9.08E-12	0.00E+00	3.55E-10
6686	457573.3	3768992	3.083E-09	1.58E-10	0.00E+00	3.24E-09	3.08E-09	1.58E-10	0.00E+00	3.24E-09	9.23E-10	2.84E-11	0.00E+00	9.52E-10	3.50E-10	9.18E-12	0.00E+00	3.59E-10
6687	457583.3	3768992	3.115E-09	1.60E-10	0.00E+00	3.27E-09	3.11E-09	1.60E-10	0.00E+00	3.27E-09	9.33E-10	2.87E-11	0.00E+00	9.62E-10	3.53E-10	9.27E-12	0.00E+00	3.63E-10
6688	457593.2	3768992	3.147E-09	1.61E-10	0.00E+00	3.31E-09	3.15E-09	1.61E-10	0.00E+00	3.31E-09	9.42E-10	2.90E-11	0.00E+00	9.71E-10	3.57E-10	9.36E-12	0.00E+00	3.66E-10
6689	457603.2	3768992	3.181E-09	1.63E-10	0.00E+00	3.34E-09	3.18E-09	1.63E-10	0.00E+00	3.34E-09	9.53E-10	2.93E-11	0.00E+00	9.82E-10	3.61E-10	9.46E-12	0.00E+00	3.70E-10
6690	457613.2	3768992	3.218E-09	1.65E-10	0.00E+00	3.38E-09	3.22E-09	1.65E-10	0.00E+00	3.38E-09	9.64E-10	2.97E-11	0.00E+00	9.93E-10	3.65E-10	9.57E-12	0.00E+00	3.75E-10
6691	457623.1	3768992	3.256E-09	1.67E-10	0.00E+00	3.42E-09	3.26E-09	1.67E-10	0.00E+00	3.42E-09	9.75E-10	3.00E-11	0.00E+00	1.01E-09	3.69E-10	9.69E-12	0.00E+00	3.79E-10
6692	457633.1	3768992	3.293E-09	1.69E-10	0.00E+00	3.46E-09	3.29E-09	1.69E-10	0.00E+00	3.46E-09	9.86E-10	3.04E-11	0.00E+00	1.02E-09	3.74E-10	9.80E-12	0.00E+00	3.83E-10
6693	457643.1	3768992	3.33E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.97E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.91E-12	0.00E+00	3.88E-10
6694	457653	3768992	3.367E-09	1.73E-10	0.00E+00	3.54E-09	3.37E-09	1.73E-10	0.00E+00	3.54E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.82E-10	1.00E-11	0.00E+00	3.92E-10
6695	457663	3768992	3.406E-09	1.75E-10	0.00E+00	3.58E-09	3.41E-09	1.75E-10	0.00E+00	3.58E-09	1.02E-09	3.14E-11	0.00E+00	1.05E-09	3.86E-10	1.01E-11	0.00E+00	3.97E-10
6696	457673	3768992	3.45E-09	1.77E-10	0.00E+00	3.63E-09	3.45E-09	1.77E-10	0.00E+00	3.63E-09	1.03E-09	3.18E-11	0.00E+00	1.07E-09	3.91E-10	1.03E-11	0.00E+00	4.02E-10
6697	457683	3768992	3.495E-09	1.79E-10	0.00E+00	3.67E-09	3.49E-09	1.79E-10	0.00E+00	3.67E-09	1.05E-09	3.22E-11	0.00E+00	1.08E-09	3.96E-10	1.04E-11	0.00E+00	4.07E-10
6698	457692.9	3768992	3.539E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.02E-10	1.05E-11	0.00E+00	4.12E-10
6699	457702.9	3768992	3.583E-09	1.84E-10	0.00E+00	3.77E-09	3.58E-09	1.84E-10	0.00E+00	3.77E-09	1.07E-09	3.30E-11	0.00E+00	1.11E-09	4.06E-10	1.07E-11	0.00E+00	4.17E-10
6700	457296.8	3769021	2.313E-09	1.19E-10	0.00E+00	2.43E-09	2.31E-09	1.19E-10	0.00E+00	2.43E-09	6.93E-10	2.13E-11	0.00E+00	7.14E-10	2.62E-10	6.88E-12	0.00E+00	2.69E-10
6701	457287.7	3769017	2.318E-09	1.19E-10	0.00E+00	2.44E-09	2.32E-09	1.19E-10	0.00E+00	2.44E-09	6.94E-10	2.14E-11	0.00E+00	7.16E-10	2.63E-10	6.90E-12	0.00E+00	2.70E-10
6702	457278.6	3769013	2.322E-09	1.19E-10	0.00E+00	2.44E-09	2.32E-09	1.19E-10	0.00E+00	2.44E-09	6.95E-10	2.14E-11	0.00E+00	7.17E-10	2.63E-10	6.91E-12	0.00E+00	2.70E-10
6703	457269.5	3769010	2.326E-09	1.19E-10	0.00E+00	2.44E-09	2.33E-09	1.19E-10	0.00E+00	2.44E-09	6.97E-10	2.14E-11	0.00E+00	7.18E-10	2.64E-10	6.92E-12	0.00E+00	2.71E-10
6704	457260.4	3769006	2.329E-09	1.19E-10	0.00E+00	2.45E-09	2.33E-09	1.19E-10	0.00E+00	2.45E-09	6.97E-10	2.15E-11	0.00E+00	7.19E-10	2.64E-10	6.93E-12	0.00E+00	2.71E-10
6705	457251.3	3769002	2.332E-09	1.20E-10	0.00E+00	2.45E-09	2.33E-09	1.20E-10	0.00E+00	2.45E-09	6.99E-10	2.15E-11	0.00E+00	7.20E-10	2.65E-10	6.94E-12	0.00E+00	2.72E-10
6706	457242.2	3768998	2.337E-09	1.20E-10	0.00E+00	2.46E-09	2.34E-09	1.20E-10	0.00E+00	2.46E-09	7.00E-10	2.15E-11	0.00E+00	7.22E-10	2.65E-10	6.95E-12	0.00E+00	2.72E-10
6707	457233.1	3768995	2.343E-09	1.20E-10	0.00E+00	2.46E-09	2.34E-09	1.20E-10	0.00E+00	2.46E-09	7.02E-10	2.16E-11	0.00E+00	7.23E-10	2.66E-10	6.97E-12	0.00E+00	2.73E-10
6708	457224	3768991	2.348E-09	1.20E-10	0.00E+00	2.47E-09	2.35E-09	1.20E-10	0.00E+00	2.47E-09	7.03E-10	2.16E-11	0.00E+00	7.25E-10	2.66E-10	6.99E-12	0.00E+00	2.73E-10
6709	457214.9	3768987	2.353E-09	1.21E-10	0.00E+00	2.47E-09	2.35E-09	1.21E-10	0.00E+00	2.47E-09	7.05E-10	2.17E-11	0.00E+00	7.26E-10	2.67E-10	7.00E-12	0.00E+00	2.74E-10
6710	457205.8	3768984	2.357E-09	1.21E-10	0.00E+00	2.48E-09	2.36E-09	1.21E-10	0.00E+00	2.48E-09	7.06E-10	2.17E-11	0.00E+00	7.28E-10	2.67E-10	7.01E-12	0.00E+00	2.74E-10
6711	457196.7	3768980	2.36E-09	1.21E-10	0.00E+00	2.48E-09	2.36E-09	1.21E-10	0.00E+00	2.48E-09	7.07E-10	2.18E-11	0.00E+00	7.29E-10	2.68E-10	7.02E-12	0.00E+00	2.75E-10
6712	457187.7	3768976	2.363E-09	1.21E-10	0.00E+00	2.48E-09	2.36E-09	1.21E-10	0.00E+00	2.48E-09	7.08E-10	2.18E-11	0.00E+00	7.30E-10	2.68E-10	7.03E-12	0.00E+00	2.75E-10
6713	457178.6	3768972	2.367E-09	1.21E-10	0.00E+00	2.49E-09	2.37E-09	1.21E-10	0.00E+00	2.49E-09	7.09E-10	2.18E-11	0.00E+00	7.31E-10	2.69E-10	7.04E-12	0.00E+00	2.76E-10
6714	457169.5	3768969	2.37E-09	1.22E-10	0.00E+00	2.49E-09	2.37E-09	1.22E-10	0.00E+00	2.49E-09	7.10E-10	2.19E-11	0.00E+00	7.32E-10	2.69E-10	7.05E-12	0.00E+00	2.76E-10
6715	457160.4	3768965	2.375E-09	1.22E-10	0.00E+00	2.50E-09	2.37E-09	1.22E-10	0.00E+00	2.50E-09	7.11E-10	2.19E-11	0.00E+00	7.33E-10	2.69E-10	7.07E-12	0.00E+00	2.76E-10
6716	457151.3	3768961	2.379E-09	1.22E-10	0.00E+00	2.50E-09	2.38E-09	1.22E-10	0.00E+00	2.50E-09	7.12E-10	2.19E-11	0.00E+00	7.34E-10	2.70E-10	7.08E-12	0.00E+00	2.77E-10
6717	457142.2	3768957	2.383E-09	1.22E-10	0.00E+00	2.51E-09	2.38E-09	1.22E-10	0.00E+00	2.51E-09	7.14E-10	2.20E-11	0.00E+00	7.36E-10	2.70E-10	7.09E-12	0.00E+00	2.77E-10

6718	457133.1	3768954	2.387E-09	1.22E-10	0.00E+00	2.51E-09	2.39E-09	1.22E-10	0.00E+00	2.51E-09	7.15E-10	2.20E-11	0.00E+00	7.37E-10	2.71E-10	7.10E-12	0.00E+00	2.78E-10
6719	457124	3768950	2.389E-09	1.22E-10	0.00E+00	2.51E-09	2.39E-09	1.22E-10	0.00E+00	2.51E-09	7.16E-10	2.20E-11	0.00E+00	7.38E-10	2.71E-10	7.11E-12	0.00E+00	2.78E-10
6720	457114.9	3768946	2.391E-09	1.23E-10	0.00E+00	2.51E-09	2.39E-09	1.23E-10	0.00E+00	2.51E-09	7.16E-10	2.20E-11	0.00E+00	7.38E-10	2.71E-10	7.12E-12	0.00E+00	2.78E-10
6721	457105.8	3768942	2.393E-09	1.23E-10	0.00E+00	2.52E-09	2.39E-09	1.23E-10	0.00E+00	2.52E-09	7.17E-10	2.21E-11	0.00E+00	7.39E-10	2.71E-10	7.12E-12	0.00E+00	2.79E-10
6722	457096.7	3768939	2.394E-09	1.23E-10	0.00E+00	2.52E-09	2.39E-09	1.23E-10	0.00E+00	2.52E-09	7.17E-10	2.21E-11	0.00E+00	7.39E-10	2.72E-10	7.12E-12	0.00E+00	2.79E-10
6723	457087.6	3768935	2.396E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.17E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6724	457078.5	3768931	2.396E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6725	457069.5	3768927	2.397E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6726	457060.4	3768924	2.397E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6727	457051.3	3768920	2.398E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.14E-12	0.00E+00	2.79E-10
6728	457042.2	3768916	2.399E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.19E-10	2.21E-11	0.00E+00	7.41E-10	2.72E-10	7.14E-12	0.00E+00	2.79E-10
6729	457033.1	3768912	2.4E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.19E-10	2.21E-11	0.00E+00	7.41E-10	2.72E-10	7.14E-12	0.00E+00	2.79E-10
6730	457024	3768909	2.399E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.14E-12	0.00E+00	2.79E-10
6731	457014.9	3768905	2.397E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.18E-10	2.21E-11	0.00E+00	7.40E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6732	457005.8	3768901	2.395E-09	1.23E-10	0.00E+00	2.52E-09	2.39E-09	1.23E-10	0.00E+00	2.52E-09	7.17E-10	2.21E-11	0.00E+00	7.39E-10	2.72E-10	7.13E-12	0.00E+00	2.79E-10
6733	456996.7	3768897	2.392E-09	1.23E-10	0.00E+00	2.51E-09	2.39E-09	1.23E-10	0.00E+00	2.51E-09	7.17E-10	2.21E-11	0.00E+00	7.39E-10	2.71E-10	7.12E-12	0.00E+00	2.79E-10
6734	456987.6	3768894	2.389E-09	1.23E-10	0.00E+00	2.51E-09	2.39E-09	1.23E-10	0.00E+00	2.51E-09	7.16E-10	2.20E-11	0.00E+00	7.38E-10	2.71E-10	7.11E-12	0.00E+00	2.78E-10
6735	456978.5	3768890	2.386E-09	1.22E-10	0.00E+00	2.51E-09	2.39E-09	1.22E-10	0.00E+00	2.51E-09	7.15E-10	2.20E-11	0.00E+00	7.37E-10	2.71E-10	7.10E-12	0.00E+00	2.78E-10
6736	456969.4	3768886	2.383E-09	1.22E-10	0.00E+00	2.50E-09	2.38E-09	1.22E-10	0.00E+00	2.50E-09	7.14E-10	2.20E-11	0.00E+00	7.36E-10	2.70E-10	7.09E-12	0.00E+00	2.77E-10
6737	456960.3	3768882	2.379E-09	1.22E-10	0.00E+00	2.50E-09	2.38E-09	1.22E-10	0.00E+00	2.50E-09	7.13E-10	2.19E-11	0.00E+00	7.35E-10	2.70E-10	7.08E-12	0.00E+00	2.77E-10
6738	456951.2	3768879	2.376E-09	1.22E-10	0.00E+00	2.50E-09	2.38E-09	1.22E-10	0.00E+00	2.50E-09	7.12E-10	2.19E-11	0.00E+00	7.33E-10	2.70E-10	7.07E-12	0.00E+00	2.77E-10
6739	456942.2	3768875	2.371E-09	1.22E-10	0.00E+00	2.49E-09	2.37E-09	1.22E-10	0.00E+00	2.49E-09	7.10E-10	2.19E-11	0.00E+00	7.32E-10	2.69E-10	7.06E-12	0.00E+00	2.76E-10
6740	456933.1	3768871	2.369E-09	1.21E-10	0.00E+00	2.49E-09	2.37E-09	1.21E-10	0.00E+00	2.49E-09	7.10E-10	2.18E-11	0.00E+00	7.31E-10	2.69E-10	7.05E-12	0.00E+00	2.76E-10
6741	456924	3768868	2.363E-09	1.21E-10	0.00E+00	2.48E-09	2.36E-09	1.21E-10	0.00E+00	2.48E-09	7.08E-10	2.18E-11	0.00E+00	7.30E-10	2.68E-10	7.03E-12	0.00E+00	2.75E-10
6742	456896.7	3768856	2.343E-09	1.20E-10	0.00E+00	2.46E-09	2.34E-09	1.20E-10	0.00E+00	2.46E-09	7.02E-10	2.16E-11	0.00E+00	7.23E-10	2.66E-10	6.97E-12	0.00E+00	2.73E-10
6743	456887.6	3768853	2.335E-09	1.20E-10	0.00E+00	2.46E-09	2.34E-09	1.20E-10	0.00E+00	2.46E-09	6.99E-10	2.15E-11	0.00E+00	7.21E-10	2.65E-10	6.95E-12	0.00E+00	2.72E-10
6744	456878.5	3768849	2.328E-09	1.19E-10	0.00E+00	2.45E-09	2.33E-09	1.19E-10	0.00E+00	2.45E-09	6.97E-10	2.15E-11	0.00E+00	7.19E-10	2.64E-10	6.93E-12	0.00E+00	2.71E-10
6745	456869.4	3768845	2.32E-09	1.19E-10	0.00E+00	2.44E-09	2.32E-09	1.19E-10	0.00E+00	2.44E-09	6.95E-10	2.14E-11	0.00E+00	7.16E-10	2.63E-10	6.90E-12	0.00E+00	2.70E-10
6746	456860.3	3768841	2.312E-09	1.19E-10	0.00E+00	2.43E-09	2.31E-09	1.19E-10	0.00E+00	2.43E-09	6.92E-10	2.13E-11	0.00E+00	7.14E-10	2.62E-10	6.88E-12	0.00E+00	2.69E-10
6747	456851.2	3768838	2.303E-09	1.18E-10	0.00E+00	2.42E-09	2.30E-09	1.18E-10	0.00E+00	2.42E-09	6.90E-10	2.12E-11	0.00E+00	7.11E-10	2.61E-10	6.85E-12	0.00E+00	2.68E-10
6748	456842.1	3768834	2.295E-09	1.18E-10	0.00E+00	2.41E-09	2.29E-09	1.18E-10	0.00E+00	2.41E-09	6.87E-10	2.12E-11	0.00E+00	7.08E-10	2.60E-10	6.83E-12	0.00E+00	2.67E-10
6749	456833	3768830	2.286E-09	1.17E-10	0.00E+00	2.40E-09	2.29E-09	1.17E-10	0.00E+00	2.40E-09	6.85E-10	2.11E-11	0.00E+00	7.06E-10	2.59E-10	6.80E-12	0.00E+00	2.66E-10
6750	456823.9	3768826	2.277E-09	1.17E-10	0.00E+00	2.39E-09	2.28E-09	1.17E-10	0.00E+00	2.39E-09	6.82E-10	2.10E-11	0.00E+00	7.03E-10	2.58E-10	6.77E-12	0.00E+00	2.65E-10
6751	456814.9	3768823	2.267E-09	1.16E-10	0.00E+00	2.38E-09	2.27E-09	1.16E-10	0.00E+00	2.38E-09	6.79E-10	2.09E-11	0.00E+00	7.00E-10	2.57E-10	6.75E-12	0.00E+00	2.64E-10
6752	456805.8	3768819	2.258E-09	1.16E-10	0.00E+00	2.37E-09	2.26E-09	1.16E-10	0.00E+00	2.37E-09	6.76E-10	2.08E-11	0.00E+00	6.97E-10	2.56E-10	6.72E-12	0.00E+00	2.63E-10
6753	456796.7	3768815	2.248E-09	1.15E-10	0.00E+00	2.36E-09	2.25E-09	1.15E-10	0.00E+00	2.36E-09	6.73E-10	2.07E-11	0.00E+00	6.94E-10	2.55E-10	6.69E-12	0.00E+00	2.62E-10
6754	456787.6	3768811	2.238E-09	1.15E-10	0.00E+00	2.35E-09	2.24E-09	1.15E-10	0.00E+00	2.35E-09	6.70E-10	2.06E-11	0.00E+00	6.91E-10	2.54E-10	6.66E-12	0.00E+00	2.61E-10
6755	456778.5	3768808	2.228E-09	1.14E-10	0.00E+00	2.34E-09	2.23E-09	1.14E-10	0.00E+00	2.34E-09	6.67E-10	2.05E-11	0.00E+00	6.88E-10	2.53E-10	6.63E-12	0.00E+00	2.59E-10
6756	456769.4	3768804	2.217E-09	1.14E-10	0.00E+00	2.33E-09	2.22E-09	1.14E-10	0.00E+00	2.33E-09	6.64E-10	2.04E-11	0.00E+00	6.85E-10	2.52E-10	6.60E-12	0.00E+00	2.58E-10
6757	456756.5	3768791	2.225E-09	1.14E-10	0.00E+00	2.34E-09	2.22E-09	1.14E-10	0.00E+00	2.34E-09	6.66E-10	2.05E-11	0.00E+00	6.87E-10	2.52E-10	6.62E-12	0.00E+00	2.59E-10
6758	456752.7	3768782	2.243E-09	1.15E-10	0.00E+00	2.36E-09	2.24E-09	1.15E-10	0.00E+00	2.36E-09	6.72E-10	2.07E-11	0.00E+00	6.92E-10	2.54E-10	6.67E-12	0.00E+00	2.61E-10
6759	456748.9	3768773	2.261E-09	1.16E-10	0.00E+00	2.38E-09	2.26E-09	1.16E-10	0.00E+00	2.38E-09	6.77E-10	2.08E-11	0.00E+00	6.98E-10	2.57E-10	6.73E-12	0.00E+00	2.63E-10
6760	456745	3768764	2.279E-09	1.17E-10	0.00E+00	2.40E-09	2.28E-09	1.17E-10	0.00E+00	2.40E-09	6.83E-10	2.10E-11	0.00E+00	7.04E-10	2.59E-10	6.78E-12	0.00E+00	2.65E-10
6761	456741.2	3768755	2.297E-09	1.18E-10	0.00E+00	2.42E-09	2.30E-09	1.18E-10	0.00E+00	2.42E-09	6.88E-10	2.12E-11	0.00E+00	7.09E-10	2.61E-10	6.84E-12	0.00E+00	2.67E-10
6762	456737.4	3768746	2.315E-09	1.19E-10	0.00E+00	2.43E-09	2.32E-09	1.19E-10	0.00E+00	2.43E-09	6.93E-10	2.13E-11	0.00E+00	7.15E-10	2.63E-10	6.89E-12	0.00E+00	2.70E-10
6763	456733.6	3768737	2.334E-09	1.20E-10	0.00E+00	2.45E-09	2.33E-09	1.20E-10	0.00E+00	2.45E-09	6.99E-10	2.15E-11	0.00E+00	7.20E-10	2.65E-10	6.94E-12	0.00E+00	2.72E-10
6764	456729.8	3768728	2.352E-09	1.21E-10	0.00E+00	2.47E-09	2.35E-09	1.21E-10	0.00E+00	2.47E-09	7.05E-10	2.17E-11	0.00E+00	7.26E-10	2.67E-10	7.00E-12	0.00E+00	2.74E-10
6765	456726	3768719	2.371E-09	1.22E-10	0.00E+00	2.49E-09	2.37E-09	1.22E-10	0.00E+00	2.49E-09	7.10E-10	2.19E-11	0.00E+00	7.32E-10	2.69E-10	7.06E-12	0.00E+00	2.76E-10
6766	456722.1	3768710	2.39E-09	1.23E-10	0.00E+00	2.51E-09	2.39E-09	1.23E-10	0.00E+00	2.51E-09	7.16E-10	2.20E-11	0.00E+00	7.38E-10	2.71E-10	7.11E-12	0.00E+00	2.78E-10
6767	456718.3	3768700	2.409E-09	1.24E-10	0.00E+00	2.53E-09	2.41E-09	1.24E-10	0.00E+00	2.53E-09	7.22E-10	2.22E-11	0.00E+00	7.44E-10	2.73E-10	7.17E-12	0.00E+00	2.81E-10
6768	456714.5	3768691	2.428E-09	1.24E-10	0.00E+00	2.55E-09	2.43E-09	1.24E-10	0.00E+00	2.55E-09	7.27E-10	2.24E-11	0.00E+00	7.50E-10	2.75E-10	7.23E-12	0.00E+00	2.83E-10
6769	456710.7	3768682	2.447E-09	1.25E-10	0.00E+00	2.57E-09	2.45E-09	1.25E-10	0.00E+00	2.57E-09	7.33E-10	2.26E-11	0.00E+00	7.56E-10	2.78E-10	7.28E-12	0.00E+00	2.85E-10
6770	456706.9	3768673	2.467E-09	1.26E-10	0.00E+00	2.59E-09	2.47E-09	1.26E-10	0.00E+00	2.59E-09	7.39E-10	2.27E-11	0.00E+00	7.62E-10	2.80E-10	7.34E-12	0.00E+00	2.87E-10
6771	456703.1	3768664	2.486E-09	1.27E-10	0.00E+00	2.61E-09	2.49E-09	1.27E-10	0.00E+00	2.61E-09	7.45E-10	2.29E-11	0.00E+00	7.68E-10	2.82E-10	7.40E-12	0.00E+00	2.89E-10
6772	456699.2	3768655	2.506E-09	1.28E-10	0.00E+00	2.63E-09	2.51E-09	1.28E-10	0.00E+00	2.63E-09	7.51E-10	2.31E-11	0.00E+00	7.74E-10	2.84E-10	7.46E-12	0.00E+00	2.92E-10
6773	456695.4	3768646	2.527E-09	1.30E-10	0.00E+00	2.66E-09	2.53E-09	1.30E-10	0.00E+00	2.66E-09	7.57E-10	2.33E-11	0.00E+00	7.80E-10	2.87E-10	7.52E-12	0.00E+00	2.94E-10
6774	456691.6	3768637	2.547E-09	1.31E-10	0.00E+00	2.68E-09	2.55E-09	1.31E-10	0.00E+00	2.68E-09	7.63E-10	2.35E-11	0.00E+00	7.86E-10	2.89E-10	7.58E-12	0.00E+00	2.97E-10
6775	456687.8	3768628	2.568E-09	1.32E-10	0.00E+00	2.70E-09	2.57E-09	1.32E-10	0.00E+00	2.70E-09	7.69E-10	2.37E-11	0.00E+00	7.93E-10	2.91E-10	7.64E-12	0.00E+00	2.99E-10
6776	456684	3768619	2.589E-09	1.33E-10	0.00E+00	2.72E-09	2.59E-09	1.33E-10	0.00E+00	2.72E-09	7.76E-10	2.39E-11	0.00E+00	7.99E-10	2.94E-10	7.70E-12	0.00E+00	3.01E-10
6777	456680.2	3768610	2.611E-09	1.34E-10	0.00E+00	2.74E-09	2.61E-09	1.34E-10	0.00E+00	2.74E-09	7.82E-10	2.41E-11	0.00E+00	8.06E-10	2.96E-10	7.77E-12	0.00E+00	3.04E-10
6778	456676.3	3768601	2.632E-09	1.35E-10	0.00E+00	2.77E-09	2.63E-09	1.35E-10	0.00E+00	2.77E-09	7.88E-10	2.43E-11	0.00E+00	8.13E-10	2.99E-10	7.83E-12	0.00E+00	3.06E-10
6779	456672.5	3768592	2.654E-09	1.36E-10	0.00E+00	2.79E-09	2.65E-09	1.36E-10	0.00E+00	2.79E-09	7.95E-10	2.45E-11	0.00E+00	8.19E-10	3.01E-10	7.90E-12	0.00E+00	3.09E-10
6780	456668.7	3768583	2.676E-09	1.37E-10	0.00E+00	2.81E-09	2.68E-09	1.37E-10	0.00E+00	2.81E-09	8.02E-10	2.47E-11	0.00E+00	8.26E-10	3.04E-10	7.96E-12	0.00E+00	3.12E-10
6781	456664.9	3768574	2.699E-09	1.38E-10	0.00E+00	2.84E-09	2.70E-09	1.38E-10	0.00E+00	2.84E-09	8.08E-10	2.49E-11	0.00E+00	8.33E-10	3.06E-10	8.03E-12	0.00E+00	3.14E-10
6782	456661.1	3768565	2.722E-09	1.40E-10	0.00E+00	2.86E-09	2.72E-09	1.40E-10	0.00E+00	2.86E-09	8.15E-10	2.51E-11	0.00E+00	8.40E-10	3.09E-10	8.10E-12	0.00E+00	3.17E-10
6783	456657.3	3768555	2.745E-09	1.41E-10	0.00E+00	2.89E-09	2.74E-09	1.41E-10	0.00E+00	2.89E-09	8.22E-10	2.53E-11	0.00E+00	8.47E-10	3.11E-10	8.17E-12	0.00E+00	3.20E-10
6784	456653.5	3768546	2.768E-09	1.42E-10	0.00E+00	2.91E-09	2.77E-09	1.42E-10	0.00E+00	2.91E-09	8.29E-10	2.55E-11	0.00E+00	8.55E-10	3.14E-10	8.24E-12	0.00E+00	3.22E-10
6785	456649.6	3768537	2.792E-09	1.43E-10	0.00E+00	2.94E-09	2.79E-09	1.43E-10	0.00E+00	2.94E-09	8.36E-10	2.57E-11	0.00E+00	8.62E-10	3.17E-10	8.31E-12	0.00E+00	3.25E-10
6786	456645.8	3768528	2.816E-09	1.44E-10	0.00E+00	2.96E-09	2.82E-09	1.44E-10	0.00E+00	2.96E-09	8.44E-10	2.60E-11	0.00E+00	8.70E-10	3.20E-10	8.38E-12	0.00E+00	3.28E-10
6787	456642	3768519	2.841E-09	1.46E-10	0.00E+00	2.99E-09	2.84E-09	1.46E-10	0.00E+00	2.99E-09	8.51E-10	2.62E-11	0.00E+00	8.77E-10	3.22E-10	8.45E-12	0.00E+00	3.31E-10
6788	456638.2	3768510	2.865E-09	1.47E-10	0.00E+00	3.01E-09	2.87E-09	1.47E-10	0.00E+00	3.01E-09	8.58E-10	2.64E-11	0.00E+00	8.85E-10	3.25E-10	8.53E-12	0.00E+00	3.34E-10
6789	456634.4	3768501	2.891E-09	1.48E-10	0.00E+00	3.04E-09	2.89E-09	1.48E-10	0.00E+00	3.04E-09	8.66E-10	2.66E-11	0.00E+00	8.92E-10	3.28E-10	8.60E-12	0.00E+00	3.37E-10
6790	456630.6	3768492	2.916E-09	1.49E-10	0.00E+00	3.07E-09	2.92E-09	1.49E-10	0.00E+00	3.07E-09	8.73E-10	2.69E-11	0.00E+00	9.00E-10	3.31E-10	8.68E-12	0.00E+00	3.40E-10
6791	456626.7	3768483	2.942E-09	1.51E-10	0.00E+00	3.09E-09	2.94E-09	1.51E-10	0.00E+00	3.09E-09	8.81E-10	2.71E-11	0.00E+00	9.08E-10	3.34E-10	8.75E-12	0.00E+00	3.43E-10
6792	456622.9	3768474	2.968E-09	1.52E-10	0.00E+00	3.12E-09	2.97E-09	1.52E-10	0.00E+00	3.12E-09	8.89E-10	2.74E-11	0.00E+00	9.16E-10	3.37E-10	8.83E-12	0.00E+00	3.46E-10
6793	456619.1	3768465	2.995E-09	1.54E-10	0.00E+00	3.15E-09	2.99E-09	1.54E-10	0.00E+00	3.15E-09	8.97E-10	2.76E-11	0.00E+00	9.25E-10	3.40E-10	8.91E-12	0.00E+00	3.49E-10
6794	456615.3	3768456	3.021E-09	1.55E-10	0.00E+00	3.18E-09	3.02E-09	1.55E-10	0.00E+00	3.18E-09	9.05E-10	2.79E-11	0.00E+00	9.33E-10	3.43E-10	8.99E-12	0.00E+00	3.52E-10
6795	456600	3768420	3.131E-09	1.61E-10	0.00E+00	3.29E-09	3.13E-09	1.61E-10	0.00E+00	3.29E-09	9.38E-10	2.89E-11	0.00E+00	9.67E-10	3.55E-10	9.32E-12	0.00E+00	3.64E-10
6796	456596.2	3768410	3.159E-09	1.62E-10	0.00E+00	3.32E-09	3.16E-09	1.62E-10	0.00E+00	3.32E-09	9.46E-10	2.91E-11	0.00E+00	9.75E-10	3.58E-10	9.40E-12	0.00E+00	3.68E-10
6797	456592.4	3768401	3.187E-09	1.63E-10	0.00E+00	3.35E-09	3.19E-09	1.63E-10	0.00E+00	3.35E-09	9.55E-10	2.94E-11	0.00E+00	9.84E-10	3.62E-10	9.48E-12	0.00E+00	3.71E-10
6798	456588.6	3768392	3.216E-09	1.65E-10	0.00E+00	3.38E-09	3.22E-09	1.65E-10	0.00E+00	3.38E-09	9.63E-10	2.96E-11	0.00E+00	9.93E-10	3.65E-10	9.57E-12	0.00E+00	3.74E-10
6799	456584.8	3768383	3.245E-09	1.66E-10	0.00E+00	3.41E-09	3.24E-09	1.66E-10	0.00E+00	3.41E-09	9.72E-10	2.99E-11	0.00E+00	1.00E-09	3.68E-10	9.66E-12	0.00E+00	3.78E-10
6800	456580.9	3768374	3.274E-09	1.68E-10	0.00E+00	3.44E-09	3.27E-09	1.68E-10	0.00E+00	3.44E-09	9.80E-10	3.02E-11	0.00E+00	1.01E-09	3.71E-10	9.74E-12	0.00E+00	3.81E-10
6801	456577.1	3768365	3.302E-09	1.69E-10	0.00E+00	3.47E-09	3.30E-09	1.69E-10	0.00E+00	3.47E-09	9.89E-10	3.04E-11	0.00E+00	1.02E-09	3.75E-10	9.83E-12	0.00E+00	3.84E-10
6802	456573.3	3768356	3.331E-09	1.71E-10	0.00E+00	3.50E-09	3.33E-09	1.71E-10	0.00E+00	3.50E-09	9.98E-10	3.07E-11	0.00E+00	1.03E-09	3.78E-10	9.91E-12	0.00E+00	3.88E-10
6803	456569.5	3768347	3.36E-09	1.72E-10	0.00E+00	3.53E-09	3.36E-09	1.72E-10	0.00E+00	3.53E-09	1.01E-09	3.10E-11	0.00E+00	1.04E-09	3.81E-10	1.00E-11	0.00E+00	3.91E-10
6804	456565.7	3768338	3.39E-09	1.74E-10	0.00E+00	3.56E-09	3.39E-09	1.74E-10	0.00E+00	3.56E-09	1.02E-09	3.12E-11	0.00E+00	1.05E-09	3.85E-10	1.01E-11	0.00E+00	3.95E-10
6805	456561.9	3768329	3.419E-09	1.75E-10	0.00E+00	3.59E-09	3.42E-09	1.75E-10	0.00E+00	3.59E-09	1.02E-09	3.15E-11	0.00E+00	1.06E-09	3.88E-10	1.02E-11	0.00E+00	3.98E-10
6806	456558.1	3768320	3.448E-09	1.77E-10	0.00E+00	3.62E-09	3.45E-09	1.77E-10	0.00E+00	3.62E-09	1.03E-09	3.18E-11	0.00E+00	1.06E-09	3.91E-10	1.03E-11	0.00E+00	4.01E-10
6807	456554.2	3768311	3.477E-09	1.78E-10	0.00E+00	3.66E-09	3.48E-09	1.78E-10	0.00E+00	3.66E-09	1.04E-09	3.21E-11	0.00E+00	1.07E-09	3.95E-10	1.03E-11	0.00E+00	4.05E-10
6808	456550.4	3768302	3.507E-09	1.80E-10	0.00E+00	3.69E-09	3.51E-09	1.80E-10	0.00E+00	3.69E-09	1.05E-09	3.23E-11	0.00E+00	1.08E-09	3.98E-10	1.04E-11	0.00E+00	4.08E-10
6809	456546.6	3768293	3.536E-09	1.81E-10	0.00E+00	3.72E-09	3.54E-09	1.81E-10	0.00E+00	3.72E-09	1.06E-09	3.26E-11	0.00E+00	1.09E-09	4.01E-10	1.05E-11	0.00E+00	4.12E-10
6810	456542.8	3768284	3.566E-09	1.83E-10	0.00E+00	3.75E-09	3.57E-09	1.83E-10	0.00E+00	3.75E-09	1.07E-09	3.29E-11	0.00E+00	1.10E-09	4.05E-10	1.06E-11	0.00E+00	4.15E-10
6811	456539	3768275	3.595E-09	1.84E-10	0.00E+00	3.78E-09	3.59E-09	1.84E-10	0.00E+00	3.78E-09	1.08E-09	3.31E-11	0.00E+00	1.11E-09	4.08E-10	1.07E-11	0.00E+00	4.19E-10
6812	456535.2	3768265	3.624E-09	1.86E-10	0.00E+00	3.81E-09	3.62E-09	1.86E-10	0.00E+00	3.81E-09	1.09E-09	3.34E-11	0.00E+00	1.12E-09	4.11E-10	1.08E-11	0.00E+00	4.22E-10
6813	456531.3	3768256	3.653E-09	1.87E-10	0.00E+00	3.84E-09	3.65E-09	1.87E-10	0.00E+00	3.84E-09	1.09E-09	3.37E-11	0.00E+00	1.13E-09	4.14E-10	1.09E-11	0.00E+00	4.25E-10
6814	456527.5	3768247	3.681E-09	1.89E-10	0.00E+00	3.87E-09	3.68E-09	1.89E-10	0.00E+00	3.87E-09	1.10E-09	3.39E-11	0.00E+00	1.14E-09	4.18E-10	1.10E-11	0.00E+00	4.29E-10
6815	457334	3769032	2.318E-09	1.19E-10	0.00E+00	2.44E-09	2.32E-09	1.19E-10	0.00E+00	2.44E-09	6.94E-10	2.14E-11	0.00E+00	7.15E-10	2.63E-10	6.90E-12	0.00E+00	2.70E-10
6816	457344	3769032	2.333E-09	1.20E-10	0.00E+00	2.45E-09	2.33E-09	1.20E-10	0.00E+00	2.45E-09	6.99E-10	2.15E-11	0.00E+00	7.20E-10	2.65E-10	6.94E-12	0.00E+00	2.72E-10
6817	457354	3769032	2.35E-09	1.20E-10	0.00E+00	2.47E-09	2.35E-09	1.20E-10	0.00E+00	2.47E-09	7.04E-10	2.17E-11	0.00E+00	7.25E-10	2.67E-10	6.99E-12	0.00E+00	2.74E-10
6818	457363.9	3769032	2.366E-09	1.21E-10	0.00E+00	2.49E-09	2.37E-09	1.21E-10	0.00E+00	2.49E-09	7.09E-10	2.18E-11	0.00E+00	7.31E-10	2.68E-10	7.04E-12	0.00E+00	2.75E-10
6819	457373.9	3769032	2.384E-09	1.22E-10	0.00E+00	2.51E-09	2.38E-09	1.22E-10	0.00E+00	2.51E-09	7.14E-10	2.20E-11	0.00E+00	7.36E-10	2.70E-10	7.09E-12	0.00E+00	2.78E-10
6820	457383.9	3769032	2.401E-09	1.23E-10	0.00E+00	2.52E-09	2.40E-09	1.23E-10	0.00E+00	2.52E-09	7.19E-10	2.21E-11	0.00E+00	7.41E-10	2.72E-10	7.15E-12	0.00E+00	2.80E-10
6821	457393.8	3769032	2.42E-09	1.24E-10	0.00E+00	2.54E-09	2.42E-09	1.24E-10	0.00E+00	2.54E-09	7.25E-10	2.23E-11	0.00E+00	7.47E-10	2.75E-10	7.20E-12	0.00E+00	2.82E-10
6822	457403.8	3769032	2.438E-09	1.25E-10	0.00E+00	2.56E-09	2.44E-09	1.25E-10	0.00E+00	2.56E-09	7.30E-10	2.25E-11	0.00E+00	7.53E-10	2.77E-10	7.26E-12	0.00E+00	2.84E-10
6823	457413.8	3769032	2.458E-09	1.26E-10	0.00E+00	2.58E-09	2.46E-09	1.26E-10	0.00E+00	2.58E-09	7.36E-10	2.27E-11	0.00E+00	7.59E-10	2.79E-10	7.31E-12	0.00E+00	2.86E-10
6824	457423.7	3769032	2.477E-09	1.27E-10	0.00E+00	2.60E-09	2.48E-09	1.27E-10	0.00E+00	2.60E-09	7.42E-10	2.28E-11	0.00E+00	7.65E-10	2.81E-10	7.37E-12	0.00E+00	2.88E-10
6825	457433.7	3769032	2.497E-09	1.28E-10	0.00E+00	2.63E-09	2.50E-09	1.28E-10	0.00E+00	2.63E-09	7.48E-10	2.30E-11	0.00E+00	7.71E-10	2.83E-10	7.43E-12	0.00E+00	2.91E-10
6826	457443.7	3769032	2.518E-09	1.29E-10	0.00E+00	2.65E-09	2.52E-09	1.29E-10	0.00E+00	2.65E-09	7.54E-10	2.32E-11	0.00E+00	7.77E-10	2.86E-10	7.49E-12	0.00E+00	2.93E-10
6827	457453.7	3769032	2.539E-09	1.30E-10	0.00E+00	2.67E-09	2.54E-09	1.30E-10	0.00E+00	2.67E-09	7.60E-10	2.34E-11	0.00E+00	7.84E-10	2.88E-10	7.56E-12	0.00E+00	2.96E-10
6828	457463.6	3769032	2.561E-09	1.31E-10	0.00E+00	2.69E-09	2.56E-09	1.31E-10	0.00E+00	2.69E-09	7.67E-10	2.36E-11	0.00E+00	7.91E-10	2.91E-10	7.62E-12	0.00E+00	2.98E-10
6829	457473.6	3769032	2.584E-09	1.32E-10	0.00E+00	2.72E-09	2.58E-09	1.32E-10	0.00E+00	2.72E-09	7.74E-10	2.38E-11	0.00E+00	7.98E-10	2.93E-10	7.69E-12	0.00E+00	3.01E-10

6830	457483.6	3769032	2.606E-09	1.34E-10	0.00E+00	2.74E-09		2.61E-09	1.34E-10	0.00E+00	2.74E-09		7.80E-10	2.40E-11	0.00E+00	8.04E-10		2.96E-10	7.75E-12	0.00E+00	3.03E-10
6831	457493.5	3769032	2.626E-09	1.35E-10	0.00E+00	2.76E-09		2.63E-09	1.35E-10	0.00E+00	2.76E-09		7.86E-10	2.42E-11	0.00E+00	8.11E-10		2.98E-10	7.81E-12	0.00E+00	3.06E-10
6832	457503.5	3769032	2.646E-09	1.36E-10	0.00E+00	2.78E-09		2.65E-09	1.36E-10	0.00E+00	2.78E-09		7.93E-10	2.44E-11	0.00E+00	8.17E-10		3.00E-10	7.87E-12	0.00E+00	3.08E-10
6833	457513.5	3769032	2.669E-09	1.37E-10	0.00E+00	2.81E-09		2.67E-09	1.37E-10	0.00E+00	2.81E-09		7.99E-10	2.46E-11	0.00E+00	8.24E-10		3.03E-10	7.94E-12	0.00E+00	3.11E-10
6834	457523.4	3769032	2.694E-09	1.38E-10	0.00E+00	2.83E-09		2.69E-09	1.38E-10	0.00E+00	2.83E-09		8.07E-10	2.48E-11	0.00E+00	8.32E-10		3.06E-10	8.02E-12	0.00E+00	3.14E-10
6835	457533.4	3769032	2.719E-09	1.39E-10	0.00E+00	2.86E-09		2.72E-09	1.39E-10	0.00E+00	2.86E-09		8.14E-10	2.51E-11	0.00E+00	8.39E-10		3.08E-10	8.09E-12	0.00E+00	3.17E-10
6836	457543.4	3769032	2.746E-09	1.41E-10	0.00E+00	2.89E-09		2.75E-09	1.41E-10	0.00E+00	2.89E-09		8.22E-10	2.53E-11	0.00E+00	8.48E-10		3.11E-10	8.17E-12	0.00E+00	3.20E-10
6837	457553.4	3769032	2.773E-09	1.42E-10	0.00E+00	2.92E-09		2.77E-09	1.42E-10	0.00E+00	2.92E-09		8.31E-10	2.56E-11	0.00E+00	8.56E-10		3.15E-10	8.25E-12	0.00E+00	3.23E-10
6838	457563.3	3769032	2.801E-09	1.44E-10	0.00E+00	2.94E-09		2.80E-09	1.44E-10	0.00E+00	2.94E-09		8.39E-10	2.58E-11	0.00E+00	8.65E-10		3.18E-10	8.34E-12	0.00E+00	3.26E-10
6839	457573.3	3769032	2.83E-09	1.45E-10	0.00E+00	2.97E-09		2.83E-09	1.45E-10	0.00E+00	2.97E-09		8.48E-10	2.61E-11	0.00E+00	8.74E-10		3.21E-10	8.42E-12	0.00E+00	3.29E-10
6840	457583.3	3769032	2.859E-09	1.47E-10	0.00E+00	3.01E-09		2.86E-09	1.47E-10	0.00E+00	3.01E-09		8.56E-10	2.64E-11	0.00E+00	8.83E-10		3.24E-10	8.51E-12	0.00E+00	3.33E-10
6841	457593.2	3769032	2.89E-09	1.48E-10	0.00E+00	3.04E-09		2.89E-09	1.48E-10	0.00E+00	3.04E-09		8.65E-10	2.66E-11	0.00E+00	8.92E-10		3.28E-10	8.60E-12	0.00E+00	3.36E-10
6842	457603.2	3769032	2.919E-09	1.50E-10	0.00E+00	3.07E-09		2.92E-09	1.50E-10	0.00E+00	3.07E-09		8.74E-10	2.69E-11	0.00E+00	9.01E-10		3.31E-10	8.69E-12	0.00E+00	3.40E-10
6843	457613.2	3769032	2.946E-09	1.51E-10	0.00E+00	3.10E-09		2.95E-09	1.51E-10	0.00E+00	3.10E-09		8.82E-10	2.72E-11	0.00E+00	9.09E-10		3.34E-10	8.77E-12	0.00E+00	3.43E-10
6844	457623.2	3769032	2.973E-09	1.52E-10	0.00E+00	3.13E-09		2.97E-09	1.52E-10	0.00E+00	3.13E-09		8.90E-10	2.74E-11	0.00E+00	9.18E-10		3.37E-10	8.85E-12	0.00E+00	3.46E-10
6845	457633.1	3769032	3.002E-09	1.54E-10	0.00E+00	3.16E-09		3.00E-09	1.54E-10	0.00E+00	3.16E-09		8.99E-10	2.77E-11	0.00E+00	9.27E-10		3.41E-10	8.93E-12	0.00E+00	3.50E-10
6846	457643.1	3769032	3.035E-09	1.56E-10	0.00E+00	3.19E-09		3.04E-09	1.56E-10	0.00E+00	3.19E-09		9.09E-10	2.80E-11	0.00E+00	9.37E-10		3.44E-10	9.03E-12	0.00E+00	3.53E-10
6847	457653.1	3769032	3.069E-09	1.57E-10	0.00E+00	3.23E-09		3.07E-09	1.57E-10	0.00E+00	3.23E-09		9.19E-10	2.83E-11	0.00E+00	9.47E-10		3.48E-10	9.13E-12	0.00E+00	3.57E-10
6848	457663	3769032	3.104E-09	1.59E-10	0.00E+00	3.26E-09		3.10E-09	1.59E-10	0.00E+00	3.26E-09		9.30E-10	2.86E-11	0.00E+00	9.58E-10		3.52E-10	9.24E-12	0.00E+00	3.61E-10
6849	457673	3769032	3.14E-09	1.61E-10	0.00E+00	3.30E-09		3.14E-09	1.61E-10	0.00E+00	3.30E-09		9.41E-10	2.89E-11	0.00E+00	9.69E-10		3.56E-10	9.34E-12	0.00E+00	3.66E-10
6850	457683	3769032	3.178E-09	1.63E-10	0.00E+00	3.34E-09		3.18E-09	1.63E-10	0.00E+00	3.34E-09		9.52E-10	2.93E-11	0.00E+00	9.81E-10		3.61E-10	9.46E-12	0.00E+00	3.70E-10
6851	457692.9	3769032	3.216E-09	1.65E-10	0.00E+00	3.38E-09		3.22E-09	1.65E-10	0.00E+00	3.38E-09		9.63E-10	2.96E-11	0.00E+00	9.93E-10		3.65E-10	9.57E-12	0.00E+00	3.74E-10
6852	457702.9	3769032	3.256E-09	1.67E-10	0.00E+00	3.42E-09		3.26E-09	1.67E-10	0.00E+00	3.42E-09		9.75E-10	3.00E-11	0.00E+00	1.01E-09		3.69E-10	9.69E-12	0.00E+00	3.79E-10
6853	456713.9	3767325	9.742E-09	4.99E-10	0.00E+00	1.02E-08		9.74E-09	4.99E-10	0.00E+00	1.02E-08		2.92E-09	8.98E-11	0.00E+00	3.01E-09		1.11E-09	2.90E-11	0.00E+00	1.13E-09
6854	456743.9	3767325	1.02E-08	5.23E-10	0.00E+00	1.07E-08		1.02E-08	5.23E-10	0.00E+00	1.07E-08		3.05E-09	9.40E-11	0.00E+00	3.15E-09		1.16E-09	3.03E-11	0.00E+00	1.19E-09
6855	456773.9	3767325	1.067E-08	5.47E-10	0.00E+00	1.12E-08		1.07E-08	5.47E-10	0.00E+00	1.12E-08		3.20E-09	9.84E-11	0.00E+00	3.29E-09		1.21E-09	3.17E-11	0.00E+00	1.24E-09
6856	456713.9	3767355	9.898E-09	5.07E-10	0.00E+00	1.04E-08		9.90E-09	5.07E-10	0.00E+00	1.04E-08		2.96E-09	9.12E-11	0.00E+00	3.06E-09		1.12E-09	2.95E-11	0.00E+00	1.15E-09
6857	456743.9	3767355	1.038E-08	5.32E-10	0.00E+00	1.09E-08		1.04E-08	5.32E-10	0.00E+00	1.09E-08		3.11E-09	9.57E-11	0.00E+00	3.20E-09		1.18E-09	3.09E-11	0.00E+00	1.21E-09
6858	456713.9	3767385	1.005E-08	5.15E-10	0.00E+00	1.06E-08		1.00E-08	5.15E-10	0.00E+00	1.06E-08		3.01E-09	9.26E-11	0.00E+00	3.10E-09		1.14E-09	2.99E-11	0.00E+00	1.17E-09

			UnMitigated			T2			T2L3			T4		
			2.83E-02	1.45E-03	0.00E+00	2.83E-02	1.45E-03	0.00E+00	8.48E-03	2.61E-04	0.00E+00	3.21E-03	8.43E-05	0.00E+00
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	457721.3	3768126	2.83E-02	1.45E-03	0.00E+00	2.83E-02	1.45E-03	0.00E+00	8.48E-03	2.61E-04	0.00E+00	3.21E-03	8.43E-05	0.00E+00
2	457732.4	3768222	2.30E-02	1.18E-03	0.00E+00	2.30E-02	1.18E-03	0.00E+00	6.88E-03	2.12E-04	0.00E+00	2.61E-03	6.83E-05	0.00E+00
3	457732.3	3768212	2.46E-02	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.36E-03	2.27E-04	0.00E+00	2.79E-03	7.32E-05	0.00E+00
4	457732.2	3768203	2.58E-02	1.32E-03	0.00E+00	2.58E-02	1.32E-03	0.00E+00	7.73E-03	2.38E-04	0.00E+00	2.93E-03	7.68E-05	0.00E+00
5	457732.1	3768193	2.66E-02	1.36E-03	0.00E+00	2.66E-02	1.36E-03	0.00E+00	7.96E-03	2.45E-04	0.00E+00	3.02E-03	7.91E-05	0.00E+00
6	457732	3768183	2.69E-02	1.38E-03	0.00E+00	2.69E-02	1.38E-03	0.00E+00	8.07E-03	2.48E-04	0.00E+00	3.06E-03	8.01E-05	0.00E+00
7	457731.9	3768174	2.70E-02	1.38E-03	0.00E+00	2.70E-02	1.38E-03	0.00E+00	8.08E-03	2.49E-04	0.00E+00	3.06E-03	8.03E-05	0.00E+00
8	457731.8	3768164	2.67E-02	1.37E-03	0.00E+00	2.67E-02	1.37E-03	0.00E+00	8.01E-03	2.46E-04	0.00E+00	3.03E-03	7.96E-05	0.00E+00
9	457731.7	3768155	2.63E-02	1.35E-03	0.00E+00	2.63E-02	1.35E-03	0.00E+00	7.87E-03	2.42E-04	0.00E+00	2.98E-03	7.82E-05	0.00E+00
10	457731.5	3768145	2.56E-02	1.31E-03	0.00E+00	2.56E-02	1.31E-03	0.00E+00	7.67E-03	2.36E-04	0.00E+00	2.91E-03	7.62E-05	0.00E+00
11	457731.4	3768135	2.47E-02	1.27E-03	0.00E+00	2.47E-02	1.27E-03	0.00E+00	7.41E-03	2.28E-04	0.00E+00	2.81E-03	7.36E-05	0.00E+00
12	457731.3	3768126	2.37E-02	1.21E-03	0.00E+00	2.37E-02	1.21E-03	0.00E+00	7.09E-03	2.18E-04	0.00E+00	2.69E-03	7.05E-05	0.00E+00
13	457739.7	3768239	1.88E-02	9.64E-04	0.00E+00	1.88E-02	9.64E-04	0.00E+00	5.63E-03	1.73E-04	0.00E+00	2.13E-03	5.59E-05	0.00E+00
14	457733.9	3768253	1.71E-02	8.77E-04	0.00E+00	1.71E-02	8.77E-04	0.00E+00	5.12E-03	1.58E-04	0.00E+00	1.94E-03	5.09E-05	0.00E+00
15	457742.4	3768222	2.08E-02	1.06E-03	0.00E+00	2.08E-02	1.06E-03	0.00E+00	6.22E-03	1.91E-04	0.00E+00	2.36E-03	6.18E-05	0.00E+00
16	457742.3	3768212	2.19E-02	1.12E-03	0.00E+00	2.19E-02	1.12E-03	0.00E+00	6.57E-03	2.02E-04	0.00E+00	2.49E-03	6.53E-05	0.00E+00
17	457742.2	3768203	2.28E-02	1.17E-03	0.00E+00	2.28E-02	1.17E-03	0.00E+00	6.83E-03	2.10E-04	0.00E+00	2.59E-03	6.79E-05	0.00E+00
18	457742.1	3768193	2.34E-02	1.20E-03	0.00E+00	2.34E-02	1.20E-03	0.00E+00	7.00E-03	2.15E-04	0.00E+00	2.65E-03	6.95E-05	0.00E+00
19	457742	3768183	2.36E-02	1.21E-03	0.00E+00	2.36E-02	1.21E-03	0.00E+00	7.06E-03	2.17E-04	0.00E+00	2.68E-03	7.02E-05	0.00E+00
20	457741.9	3768174	2.35E-02	1.21E-03	0.00E+00	2.35E-02	1.21E-03	0.00E+00	7.05E-03	2.17E-04	0.00E+00	2.67E-03	7.01E-05	0.00E+00
21	457741.8	3768164	2.33E-02	1.19E-03	0.00E+00	2.33E-02	1.19E-03	0.00E+00	6.97E-03	2.14E-04	0.00E+00	2.64E-03	6.92E-05	0.00E+00
22	457741.7	3768154	2.28E-02	1.17E-03	0.00E+00	2.28E-02	1.17E-03	0.00E+00	6.82E-03	2.10E-04	0.00E+00	2.59E-03	6.78E-05	0.00E+00
23	457741.5	3768145	2.21E-02	1.13E-03	0.00E+00	2.21E-02	1.13E-03	0.00E+00	6.62E-03	2.04E-04	0.00E+00	2.51E-03	6.58E-05	0.00E+00
24	457741.4	3768135	2.13E-02	1.09E-03	0.00E+00	2.13E-02	1.09E-03	0.00E+00	6.37E-03	1.96E-04	0.00E+00	2.41E-03	6.33E-05	0.00E+00
25	457741.3	3768126	2.03E-02	1.04E-03	0.00E+00	2.03E-02	1.04E-03	0.00E+00	6.07E-03	1.87E-04	0.00E+00	2.30E-03	6.03E-05	0.00E+00
26	457748.9	3768240	1.74E-02	8.90E-04	0.00E+00	1.74E-02	8.90E-04	0.00E+00	5.20E-03	1.60E-04	0.00E+00	1.97E-03	5.17E-05	0.00E+00
27	457745.3	3768249	1.66E-02	8.51E-04	0.00E+00	1.66E-02	8.51E-04	0.00E+00	4.97E-03	1.53E-04	0.00E+00	1.88E-03	4.94E-05	0.00E+00
28	457741.7	3768258	1.57E-02	8.05E-04	0.00E+00	1.57E-02	8.05E-04	0.00E+00	4.70E-03	1.45E-04	0.00E+00	1.78E-03	4.67E-05	0.00E+00
29	457752.6	3768231	1.79E-02	9.19E-04	0.00E+00	1.79E-02	9.19E-04	0.00E+00	5.37E-03	1.65E-04	0.00E+00	2.03E-03	5.33E-05	0.00E+00
30	457752.4	3768222	1.89E-02	9.70E-04	0.00E+00	1.89E-02	9.70E-04	0.00E+00	5.67E-03	1.74E-04	0.00E+00	2.15E-03	5.63E-05	0.00E+00
31	457752.3	3768212	1.98E-02	1.01E-03	0.00E+00	1.98E-02	1.01E-03	0.00E+00	5.92E-03	1.82E-04	0.00E+00	2.24E-03	5.89E-05	0.00E+00
32	457752.2	3768203	2.04E-02	1.05E-03	0.00E+00	2.04E-02	1.05E-03	0.00E+00	6.11E-03	1.88E-04	0.00E+00	2.32E-03	6.08E-05	0.00E+00
33	457752.1	3768193	2.08E-02	1.07E-03	0.00E+00	2.08E-02	1.07E-03	0.00E+00	6.23E-03	1.92E-04	0.00E+00	2.36E-03	6.19E-05	0.00E+00
34	457752	3768183	2.09E-02	1.07E-03	0.00E+00	2.09E-02	1.07E-03	0.00E+00	6.26E-03	1.93E-04	0.00E+00	2.37E-03	6.22E-05	0.00E+00
35	457751.9	3768174	2.08E-02	1.07E-03	0.00E+00	2.08E-02	1.07E-03	0.00E+00	6.23E-03	1.92E-04	0.00E+00	2.36E-03	6.19E-05	0.00E+00
36	457751.8	3768164	2.05E-02	1.05E-03	0.00E+00	2.05E-02	1.05E-03	0.00E+00	6.14E-03	1.89E-04	0.00E+00	2.33E-03	6.10E-05	0.00E+00
37	457751.7	3768154	2.00E-02	1.03E-03	0.00E+00	2.00E-02	1.03E-03	0.00E+00	6.00E-03	1.85E-04	0.00E+00	2.27E-03	5.96E-05	0.00E+00
38	457751.5	3768145	1.94E-02	9.93E-04	0.00E+00	1.94E-02	9.93E-04	0.00E+00	5.80E-03	1.79E-04	0.00E+00	2.20E-03	5.76E-05	0.00E+00
39	457751.4	3768135	1.86E-02	9.52E-04	0.00E+00	1.86E-02	9.52E-04	0.00E+00	5.56E-03	1.71E-04	0.00E+00	2.11E-03	5.52E-05	0.00E+00
40	457750.8	3768077	1.12E-02	5.72E-04	0.00E+00	1.12E-02	5.72E-04	0.00E+00	3.34E-03	1.03E-04	0.00E+00	1.27E-03	3.32E-05	0.00E+00
41	457750.6	3768068	9.82E-03	5.04E-04	0.00E+00	9.82E-03	5.04E-04	0.00E+00	2.94E-03	9.06E-05	0.00E+00	1.11E-03	2.92E-05	0.00E+00
42	457750.5	3768058	8.61E-03	4.42E-04	0.00E+00	8.61E-03	4.42E-04	0.00E+00	2.58E-03	7.94E-05	0.00E+00	9.77E-04	2.56E-05	0.00E+00
43	457750.4	3768048	7.57E-03	3.88E-04	0.00E+00	7.57E-03	3.88E-04	0.00E+00	2.27E-03	6.97E-05	0.00E+00	8.58E-04	2.25E-05	0.00E+00
44	457750.3	3768039	6.68E-03	3.43E-04	0.00E+00	6.68E-03	3.43E-04	0.00E+00	2.00E-03	6.16E-05	0.00E+00	7.58E-04	1.99E-05	0.00E+00
45	457750.2	3768029	5.96E-03	3.06E-04	0.00E+00	5.96E-03	3.06E-04	0.00E+00	1.79E-03	5.49E-05	0.00E+00	6.76E-04	1.77E-05	0.00E+00
46	457759.1	3768240	1.62E-02	8.32E-04	0.00E+00	1.62E-02	8.32E-04	0.00E+00	4.86E-03	1.50E-04	0.00E+00	1.84E-03	4.83E-05	0.00E+00
47	457755.6	3768248	1.57E-02	8.05E-04	0.00E+00	1.57E-02	8.05E-04	0.00E+00	4.71E-03	1.45E-04	0.00E+00	1.78E-03	4.68E-05	0.00E+00
48	457752.2	3768257	1.51E-02	7.72E-04	0.00E+00	1.51E-02	7.72E-04	0.00E+00	4.51E-03	1.39E-04	0.00E+00	1.71E-03	4.48E-05	0.00E+00
49	457748.7	3768266	1.43E-02	7.34E-04	0.00E+00	1.43E-02	7.34E-04	0.00E+00	4.29E-03	1.32E-04	0.00E+00	1.62E-03	4.26E-05	0.00E+00
50	457736.7	3768278	1.35E-02	6.90E-04	0.00E+00	1.35E-02	6.90E-04	0.00E+00	4.03E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
51	457762.6	3768231	1.66E-02	8.51E-04	0.00E+00	1.66E-02	8.51E-04	0.00E+00	4.97E-03	1.53E-04	0.00E+00	1.88E-03	4.94E-05	0.00E+00
52	457762.4	3768222	1.73E-02	8.89E-04	0.00E+00	1.73E-02	8.89E-04	0.00E+00	5.20E-03	1.60E-04	0.00E+00	1.97E-03	5.16E-05	0.00E+00
53	457762.3	3768212	1.80E-02	9.21E-04	0.00E+00	1.80E-02	9.21E-04	0.00E+00	5.38E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
54	457762.2	3768202	1.84E-02	9.44E-04	0.00E+00	1.84E-02	9.44E-04	0.00E+00	5.52E-03	1.70E-04	0.00E+00	2.09E-03	5.48E-05	0.00E+00
55	457762.1	3768193	1.87E-02	9.57E-04	0.00E+00	1.87E-02	9.57E-04	0.00E+00	5.59E-03	1.72E-04	0.00E+00	2.12E-03	5.55E-05	0.00E+00
56	457762	3768183	1.87E-02	9.59E-04	0.00E+00	1.87E-02	9.59E-04	0.00E+00	5.60E-03	1.72E-04	0.00E+00	2.12E-03	5.57E-05	0.00E+00
57	457761.9	3768173	1.86E-02	9.52E-04	0.00E+00	1.86E-02	9.52E-04	0.00E+00	5.56E-03	1.71E-04	0.00E+00	2.11E-03	5.53E-05	0.00E+00
58	457761.8	3768164	1.83E-02	9.36E-04	0.00E+00	1.83E-02	9.36E-04	0.00E+00	5.47E-03	1.68E-04	0.00E+00	2.07E-03	5.43E-05	0.00E+00
59	457761.7	3768154	1.78E-02	9.12E-04	0.00E+00	1.78E-02	9.12E-04	0.00E+00	5.33E-03	1.64E-04	0.00E+00	2.02E-03	5.29E-05	0.00E+00
60	457761.5	3768145	1.72E-02	8.80E-04	0.00E+00	1.72E-02	8.80E-04	0.00E+00	5.14E-03	1.58E-04	0.00E+00	1.95E-03	5.11E-05	0.00E+00
61	457761.4	3768135	1.64E-02	8.41E-04	0.00E+00	1.64E-02	8.41E-04	0.00E+00	4.91E-03	1.51E-04	0.00E+00	1.86E-03	4.88E-05	0.00E+00
62	457760.8	3768077	9.95E-03	5.10E-04	0.00E+00	9.95E-03	5.10E-04	0.00E+00	2.98E-03	9.17E-05	0.00E+00	1.13E-03	2.96E-05	0.00E+00
63	457760.6	3768067	8.84E-03	4.53E-04	0.00E+00	8.84E-03	4.53E-04	0.00E+00	2.65E-03	8.15E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
64	457760.5	3768058	7.83E-03	4.01E-04	0.00E+00	7.83E-03	4.01E-04	0.00E+00	2.35E-03	7.22E-05	0.00E+00	8.88E-04	2.33E-05	0.00E+00
65	457760.4	3768048	6.94E-03	3.56E-04	0.00E+00	6.94E-03	3.56E-04	0.00E+00	2.08E-03	6.40E-05	0.00E+00	7.87E-04	2.06E-05	0.00E+00
66	457760.3	3768039	6.18E-03	3.17E-04	0.00E+00	6.18E-03	3.17E-04	0.00E+00	1.85E-03	5.70E-05	0.00E+00	7.01E-04	1.84E-05	0.00E+00
67	457760.2	3768029	5.54E-03	2.84E-04	0.00E+00	5.54E-03	2.84E-04	0.00E+00	1.66E-03	5.11E-05	0.00E+00	6.29E-04	1.65E-05	0.00E+00
68	457769.2	3768240	1.52E-02	7.78E-04	0.00E+00	1.52E-02	7.78E-04	0.00E+00	4.55E-03	1.40E-04	0.00E+00	1.72E-03	4.52E-05	0.00E+00
69	457762.5	3768256	1.43E-02	7.35E-04	0.00E+00	1.43E-02	7.35E-04	0.00E+00	4.30E-03	1.32E-04	0.00E+00	1.63E-03	4.27E-05	0.00E+00
70	457755.7	3768273	1.31E-02	6.74E-04	0.00E+00	1.31E-02	6.74E-04	0.00E+00	3.94E-03	1.21E-04	0.00E+00	1.49E-03	3.91E-05	0.00E+00
71	457744.1	3768285	1.24E-02	6.37E-04	0.00E+00	1.24E-02	6.37E-04	0.00E+00	3.72E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
72	457735.8	3768288	1.23E-02	6.31E-04	0.00E+00	1.23E-02	6.31E-04	0.00E+00	3.69E-03	1.13E-04	0.00E+00	1.40E-03	3.66E-05	0.00E+00
73	457772.4	3768222	1.60E-02	8.19E-04	0.00E+00	1.60E-02	8.19E-04	0.00E+00	4.78E-03	1.47E-04	0.00E+00	1.81E-03	4.75E-05	0.00E+00
74	457772.3	3768212	1.64E-02	8.42E-04	0.00E+00	1.64E-02	8.42E-04	0.00E+00	4.92E-03	1.51E-04	0.00E+00	1.86E-03	4.89E-05	0.00E+00
75	457772.2	3768202	1.67E-02	8.58E-04	0.00E+00	1.67E-02	8.58E-04	0.00E+00	5.01E-03	1.54E-04	0.00E+00	1.90E-03	4.98E-05	0.00E+00
76	457772.1	3768193	1.69E-02	8.65E-04	0.00E+00	1.69E-02	8.65E-04	0.00E+00	5.06E-03	1.56E-04	0.00E+00	1.91E-03	5.02E-05	0.00E+00
77	457772	3768183	1.69E-02	8.65E-04	0.00E+00	1.69E-02	8.65E-04	0.00E+00	5.05E-03	1.56E-04	0.00E+00	1.91E-03	5.02E-05	0.00E+00
78	457771.9	3768173	1.67E-02	8.57E-04	0.00E+00	1.67E-02	8.57E-04	0.00E+00	5.00E-03	1.54E-04	0.00E+00	1.90E-03	4.97E-05	0.00E+00
79	457771.8	3768164	1.64E-02	8.40E-04	0.00E+00	1.64E-02	8.40E-04	0.00E+00	4.91E-03	1.51E-04	0.00E+00	1.86E-03	4.88E-05	0.00E+00
80	457771.7	3768154	1.59E-02	8.16E-04	0.00E+00	1.59E-02	8.16E-04	0.00E+00	4.77E-03	1.47E-04	0.00E+00	1.81E-03	4.74E-05	0.00E+00
81	457771.5	3768144	1.53E-02	7.86E-04	0.00E+00	1.53E-02	7.86E-04	0.00E+00	4.59E-03	1.41E-04	0.00E+00	1.74E-03	4.56E-05	0.00E+00
82	457771.4	3768135	1.46E-02	7.50E-04	0.00E+00	1.46E-02	7.50E-04	0.00E+00	4.38E-03	1.35E-04	0.00E+00	1.66E-03	4.36E-05	0.00E+00
83	457770.8	3768077	8.99E-03	4.61E-04	0.00E+00	8.99E-03	4.61E-04	0.00E+00	2.69E-03	8.28E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
84	457770.6	3768067	8.04E-03	4.12E-04	0.00E+00	8.04E-03	4.12E-04	0.00E+00	2.41E-03	7.42E-05	0.00E+00	9.13E-04	2.39E-05	0.00E+00
85	457770.5	3768058	7.18E-03	3.68E-04	0.00E+00	7.18E-03	3.68E-04	0.00E+00	2.15E-03	6.62E-05	0.00E+00	8.14E-04	2.14E-05	0.00E+00
86	457770.4	3768048	6.41E-03	3.28E-04	0.00E+00	6.41E-03	3.28E-04	0.00E+00	1.92E-03	5.91E-05	0.00E+00	7.27E-04	1.91E-05	0.00E+00
87	457770.3	3768038	5.74E-03	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.52E-04	1.71E-05	0.00E+00
88	457770.2	3768029	5.18E-03	2.66E-04	0.00E+00	5.18E-03	2.66E-04	0.00E+00	1.55E-03	4.78E-05	0.00E+00	5.88E-04	1.54E-05	0.00E+00
89	457779.3	3768239	1.42E-02	7.28E-04	0.00E+00	1.42E-02	7.28E-04	0.00E+00	4.25E-03	1.31E-04	0.00E+00	1.61E-03	4.23E-05	0.00E+00
90	457772.7	3768256	1.36E-02	6.98E-04	0.00E+00	1.36E-02	6.98E-04	0.00E+00	4.08E-03	1.26E-04	0.00E+00	1.55E-03	4.05E-05	0.00E+00
91	457766.1	3768272	1.27E-02	6.50E-04	0.00E+00	1.27E-02	6.50E-04	0.00E+00	3.80E-03	1.17E-04	0.00E+00	1.44E-03	3.77E-05	0.00E+00
92	457751.3	3768292	1.15E-02	5.91E-04	0.00E+00	1.15E-02	5.91E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
93	457735.1	3768298	1.13E-02	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00

94	457782.4	3768221	1.48E-02	7.57E-04	0.00E+00	1.48E-02	7.57E-04	0.00E+00	4.42E-03	1.36E-04	0.00E+00	1.67E-03	4.39E-05	0.00E+00
95	457782.3	3768212	1.51E-02	7.74E-04	0.00E+00	1.51E-02	7.74E-04	0.00E+00	4.52E-03	1.39E-04	0.00E+00	1.71E-03	4.49E-05	0.00E+00
96	457782.2	3768202	1.53E-02	7.84E-04	0.00E+00	1.53E-02	7.84E-04	0.00E+00	4.58E-03	1.41E-04	0.00E+00	1.73E-03	4.55E-05	0.00E+00
97	457782.1	3768193	1.54E-02	7.88E-04	0.00E+00	1.54E-02	7.88E-04	0.00E+00	4.60E-03	1.42E-04	0.00E+00	1.74E-03	4.57E-05	0.00E+00
98	457782	3768183	1.53E-02	7.85E-04	0.00E+00	1.53E-02	7.85E-04	0.00E+00	4.59E-03	1.41E-04	0.00E+00	1.74E-03	4.56E-05	0.00E+00
99	457781.9	3768173	1.51E-02	7.76E-04	0.00E+00	1.51E-02	7.76E-04	0.00E+00	4.53E-03	1.39E-04	0.00E+00	1.72E-03	4.50E-05	0.00E+00
100	457781.8	3768164	1.48E-02	7.59E-04	0.00E+00	1.48E-02	7.59E-04	0.00E+00	4.44E-03	1.37E-04	0.00E+00	1.68E-03	4.41E-05	0.00E+00
101	457781.7	3768154	1.44E-02	7.36E-04	0.00E+00	1.44E-02	7.36E-04	0.00E+00	4.30E-03	1.32E-04	0.00E+00	1.63E-03	4.27E-05	0.00E+00
102	457781.5	3768144	1.38E-02	7.08E-04	0.00E+00	1.38E-02	7.08E-04	0.00E+00	4.14E-03	1.27E-04	0.00E+00	1.57E-03	4.11E-05	0.00E+00
103	457781.4	3768135	1.32E-02	6.75E-04	0.00E+00	1.32E-02	6.75E-04	0.00E+00	3.94E-03	1.21E-04	0.00E+00	1.49E-03	3.92E-05	0.00E+00
104	457780.8	3768077	8.19E-03	4.20E-04	0.00E+00	8.19E-03	4.20E-04	0.00E+00	2.45E-03	7.55E-05	0.00E+00	9.29E-04	2.44E-05	0.00E+00
105	457780.6	3768067	7.38E-03	3.78E-04	0.00E+00	7.38E-03	3.78E-04	0.00E+00	2.21E-03	6.80E-05	0.00E+00	8.37E-04	2.20E-05	0.00E+00
106	457780.5	3768058	6.62E-03	3.40E-04	0.00E+00	6.62E-03	3.40E-04	0.00E+00	1.98E-03	6.11E-05	0.00E+00	7.52E-04	1.97E-05	0.00E+00
107	457780.4	3768048	5.95E-03	3.05E-04	0.00E+00	5.95E-03	3.05E-04	0.00E+00	1.78E-03	5.48E-05	0.00E+00	6.75E-04	1.77E-05	0.00E+00
108	457780.3	3768038	5.37E-03	2.75E-04	0.00E+00	5.37E-03	2.75E-04	0.00E+00	1.61E-03	4.95E-05	0.00E+00	6.09E-04	1.60E-05	0.00E+00
109	457780.2	3768029	4.86E-03	2.49E-04	0.00E+00	4.86E-03	2.49E-04	0.00E+00	1.46E-03	4.48E-05	0.00E+00	5.52E-04	1.45E-05	0.00E+00
110	457789.3	3768239	1.33E-02	6.82E-04	0.00E+00	1.33E-02	6.82E-04	0.00E+00	3.98E-03	1.23E-04	0.00E+00	1.51E-03	3.96E-05	0.00E+00
111	457782.8	3768255	1.29E-02	6.62E-04	0.00E+00	1.29E-02	6.62E-04	0.00E+00	3.86E-03	1.19E-04	0.00E+00	1.46E-03	3.84E-05	0.00E+00
112	457776.3	3768271	1.22E-02	6.24E-04	0.00E+00	1.22E-02	6.24E-04	0.00E+00	3.65E-03	1.12E-04	0.00E+00	1.38E-03	3.62E-05	0.00E+00
113	457769.8	3768287	1.12E-02	5.77E-04	0.00E+00	1.12E-02	5.77E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
114	457758.6	3768299	1.07E-02	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.88E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
115	457742.6	3768305	1.05E-02	5.38E-04	0.00E+00	1.05E-02	5.38E-04	0.00E+00	3.15E-03	9.68E-05	0.00E+00	1.19E-03	3.13E-05	0.00E+00
116	457792.4	3768221	1.37E-02	7.02E-04	0.00E+00	1.37E-02	7.02E-04	0.00E+00	4.10E-03	1.26E-04	0.00E+00	1.55E-03	4.07E-05	0.00E+00
117	457792.3	3768212	0.013925	7.14E-04	0.00E+00	1.39E-02	7.14E-04	0.00E+00	4.17E-03	1.28E-04	0.00E+00	1.58E-03	4.14E-05	0.00E+00
118	457792.2	3768202	0.014052	7.20E-04	0.00E+00	1.41E-02	7.20E-04	0.00E+00	4.21E-03	1.30E-04	0.00E+00	1.59E-03	4.18E-05	0.00E+00
119	457792.1	3768192	0.014069	7.21E-04	0.00E+00	1.41E-02	7.21E-04	0.00E+00	4.21E-03	1.30E-04	0.00E+00	1.60E-03	4.19E-05	0.00E+00
120	457792	3768183	0.013975	7.16E-04	0.00E+00	1.40E-02	7.16E-04	0.00E+00	4.19E-03	1.29E-04	0.00E+00	1.59E-03	4.16E-05	0.00E+00
121	457791.9	3768173	0.013766	7.06E-04	0.00E+00	1.38E-02	7.06E-04	0.00E+00	4.12E-03	1.27E-04	0.00E+00	1.56E-03	4.10E-05	0.00E+00
122	457791.8	3768163	0.013446	6.89E-04	0.00E+00	1.34E-02	6.89E-04	0.00E+00	4.03E-03	1.24E-04	0.00E+00	1.53E-03	4.00E-05	0.00E+00
123	457791.6	3768154	0.013021	6.68E-04	0.00E+00	1.30E-02	6.68E-04	0.00E+00	3.90E-03	1.20E-04	0.00E+00	1.48E-03	3.87E-05	0.00E+00
124	457791.5	3768144	0.012506	6.41E-04	0.00E+00	1.25E-02	6.41E-04	0.00E+00	3.75E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
125	457791.4	3768135	0.011913	6.11E-04	0.00E+00	1.19E-02	6.11E-04	0.00E+00	3.57E-03	1.10E-04	0.00E+00	1.35E-03	3.55E-05	0.00E+00
126	457790.8	3768077	0.007524	3.86E-04	0.00E+00	7.52E-03	3.86E-04	0.00E+00	2.25E-03	6.94E-05	0.00E+00	8.54E-04	2.24E-05	0.00E+00
127	457790.6	3768067	0.006813	3.49E-04	0.00E+00	6.81E-03	3.49E-04	0.00E+00	2.04E-03	6.28E-05	0.00E+00	7.73E-04	2.03E-05	0.00E+00
128	457790.5	3768057	0.006155	3.16E-04	0.00E+00	6.15E-03	3.16E-04	0.00E+00	1.84E-03	5.67E-05	0.00E+00	6.98E-04	1.83E-05	0.00E+00
129	457790.4	3768048	0.00556	2.85E-04	0.00E+00	5.56E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.31E-04	1.65E-05	0.00E+00
130	457790.3	3768038	0.005037	2.58E-04	0.00E+00	5.04E-03	2.58E-04	0.00E+00	1.51E-03	4.64E-05	0.00E+00	5.71E-04	1.50E-05	0.00E+00
131	457790.2	3768029	0.004581	2.35E-04	0.00E+00	4.58E-03	2.35E-04	0.00E+00	1.37E-03	4.22E-05	0.00E+00	5.20E-04	1.36E-05	0.00E+00
132	457798.9	3768240	0.012455	6.39E-04	0.00E+00	1.25E-02	6.39E-04	0.00E+00	3.73E-03	1.15E-04	0.00E+00	1.41E-03	3.71E-05	0.00E+00
133	457795.3	3768249	0.012338	6.33E-04	0.00E+00	1.23E-02	6.33E-04	0.00E+00	3.70E-03	1.14E-04	0.00E+00	1.40E-03	3.67E-05	0.00E+00
134	457791.7	3768258	0.012125	6.22E-04	0.00E+00	1.21E-02	6.22E-04	0.00E+00	3.63E-03	1.12E-04	0.00E+00	1.38E-03	3.61E-05	0.00E+00
135	457788.1	3768267	0.011822	6.06E-04	0.00E+00	1.18E-02	6.06E-04	0.00E+00	3.54E-03	1.09E-04	0.00E+00	1.34E-03	3.52E-05	0.00E+00
136	457784.5	3768275	0.011443	5.87E-04	0.00E+00	1.14E-02	5.87E-04	0.00E+00	3.43E-03	1.05E-04	0.00E+00	1.30E-03	3.41E-05	0.00E+00
137	457780.9	3768284	0.011004	5.64E-04	0.00E+00	1.10E-02	5.64E-04	0.00E+00	3.30E-03	1.01E-04	0.00E+00	1.25E-03	3.27E-05	0.00E+00
138	457777.3	3768293	0.010533	5.40E-04	0.00E+00	1.05E-02	5.40E-04	0.00E+00	3.15E-03	9.71E-05	0.00E+00	1.20E-03	3.13E-05	0.00E+00
139	457764.8	3768306	0.009999	5.13E-04	0.00E+00	1.00E-02	5.13E-04	0.00E+00	2.99E-03	9.22E-05	0.00E+00	1.13E-03	2.98E-05	0.00E+00
140	457755.9	3768310	0.009907	5.08E-04	0.00E+00	9.91E-03	5.08E-04	0.00E+00	2.97E-03	9.13E-05	0.00E+00	1.12E-03	2.95E-05	0.00E+00
141	457747	3768313	0.009767	5.01E-04	0.00E+00	9.77E-03	5.01E-04	0.00E+00	2.93E-03	9.00E-05	0.00E+00	1.11E-03	2.91E-05	0.00E+00
142	457738.1	3768317	0.009591	4.92E-04	0.00E+00	9.59E-03	4.92E-04	0.00E+00	2.87E-03	8.84E-05	0.00E+00	1.09E-03	2.85E-05	0.00E+00
143	457802.5	3768231	0.012473	6.39E-04	0.00E+00	1.25E-02	6.39E-04	0.00E+00	3.74E-03	1.15E-04	0.00E+00	1.42E-03	3.71E-05	0.00E+00
144	457802.4	3768221	0.012729	6.53E-04	0.00E+00	1.27E-02	6.53E-04	0.00E+00	3.81E-03	1.17E-04	0.00E+00	1.44E-03	3.79E-05	0.00E+00
145	457802.3	3768212	0.012894	6.61E-04	0.00E+00	1.29E-02	6.61E-04	0.00E+00	3.86E-03	1.19E-04	0.00E+00	1.46E-03	3.84E-05	0.00E+00
146	457802.2	3768202	0.012965	6.65E-04	0.00E+00	1.30E-02	6.65E-04	0.00E+00	3.88E-03	1.20E-04	0.00E+00	1.47E-03	3.86E-05	0.00E+00
147	457802.1	3768192	0.012938	6.63E-04	0.00E+00	1.29E-02	6.63E-04	0.00E+00	3.88E-03	1.19E-04	0.00E+00	1.47E-03	3.85E-05	0.00E+00
148	457802	3768183	0.012813	6.57E-04	0.00E+00	1.28E-02	6.57E-04	0.00E+00	3.84E-03	1.18E-04	0.00E+00	1.45E-03	3.81E-05	0.00E+00
149	457801.9	3768173	0.01259	6.45E-04	0.00E+00	1.26E-02	6.45E-04	0.00E+00	3.77E-03	1.16E-04	0.00E+00	1.43E-03	3.75E-05	0.00E+00
150	457801.8	3768163	0.012274	6.29E-04	0.00E+00	1.23E-02	6.29E-04	0.00E+00	3.68E-03	1.13E-04	0.00E+00	1.39E-03	3.65E-05	0.00E+00
151	457801.6	3768154	0.011871	6.09E-04	0.00E+00	1.19E-02	6.09E-04	0.00E+00	3.56E-03	1.09E-04	0.00E+00	1.35E-03	3.53E-05	0.00E+00
152	457801.5	3768144	0.011392	5.84E-04	0.00E+00	1.14E-02	5.84E-04	0.00E+00	3.41E-03	1.05E-04	0.00E+00	1.29E-03	3.39E-05	0.00E+00
153	457801.4	3768134	0.010849	5.56E-04	0.00E+00	1.08E-02	5.56E-04	0.00E+00	3.25E-03	1.00E-04	0.00E+00	1.23E-03	3.23E-05	0.00E+00
154	457800.8	3768077	0.006953	3.56E-04	0.00E+00	6.95E-03	3.56E-04	0.00E+00	2.08E-03	6.41E-05	0.00E+00	7.89E-04	2.07E-05	0.00E+00
155	457800.6	3768067	0.006328	3.24E-04	0.00E+00	6.33E-03	3.24E-04	0.00E+00	1.90E-03	5.83E-05	0.00E+00	7.18E-04	1.88E-05	0.00E+00
156	457800.5	3768057	0.005746	2.95E-04	0.00E+00	5.75E-03	2.95E-04	0.00E+00	1.72E-03	5.30E-05	0.00E+00	6.52E-04	1.71E-05	0.00E+00
157	457800.4	3768048	0.005216	2.67E-04	0.00E+00	5.22E-03	2.67E-04	0.00E+00	1.56E-03	4.81E-05	0.00E+00	5.92E-04	1.55E-05	0.00E+00
158	457800.3	3768038	0.004744	2.43E-04	0.00E+00	4.74E-03	2.43E-04	0.00E+00	1.42E-03	4.37E-05	0.00E+00	5.38E-04	1.41E-05	0.00E+00
159	457800.2	3768028	0.004328	2.22E-04	0.00E+00	4.33E-03	2.22E-04	0.00E+00	1.30E-03	3.99E-05	0.00E+00	4.91E-04	1.29E-05	0.00E+00
160	457823.9	3768239	0.010668	5.47E-04	0.00E+00	1.07E-02	5.47E-04	0.00E+00	3.20E-03	9.83E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
161	457820.3	3768248	0.010669	5.47E-04	0.00E+00	1.07E-02	5.47E-04	0.00E+00	3.20E-03	9.83E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
162	457816.7	3768257	0.010595	5.43E-04	0.00E+00	1.06E-02	5.43E-04	0.00E+00	3.17E-03	9.77E-05	0.00E+00	1.20E-03	3.15E-05	0.00E+00
163	457813.1	3768266	0.010457	5.36E-04	0.00E+00	1.05E-02	5.36E-04	0.00E+00	3.13E-03	9.64E-05	0.00E+00	1.19E-03	3.11E-05	0.00E+00
164	457809.5	3768275	0.010254	5.26E-04	0.00E+00	1.03E-02	5.26E-04	0.00E+00	3.07E-03	9.45E-05	0.00E+00	1.16E-03	3.05E-05	0.00E+00
165	457805.9	3768284	0.009996	5.12E-04	0.00E+00	1.00E-02	5.12E-04	0.00E+00	2.99E-03	9.21E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
166	457802.3	3768293	0.00969	4.97E-04	0.00E+00	9.69E-03	4.97E-04	0.00E+00	2.90E-03	8.93E-05	0.00E+00	1.10E-03	2.88E-05	0.00E+00
167	457798.7	3768302	0.009347	4.79E-04	0.00E+00	9.35E-03	4.79E-04	0.00E+00	2.80E-03	8.62E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
168	457795.1	3768311	0.008977	4.60E-04	0.00E+00	8.98E-03	4.60E-04	0.00E+00	2.69E-03	8.27E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
169	457782.6	3768324	0.008551	4.38E-04	0.00E+00	8.55E-03	4.38E-04	0.00E+00	2.56E-03	7.88E-05	0.00E+00	9.70E-04	2.54E-05	0.00E+00
170	457773.7	3768327	0.008478	4.35E-04	0.00E+00	8.48E-03	4.35E-04	0.00E+00	2.54E-03	7.82E-05	0.00E+00	9.62E-04	2.52E-05	0.00E+00
171	457764.8	3768331	0.00837	4.29E-04	0.00E+00	8.37E-03	4.29E-04	0.00E+00	2.51E-03	7.72E-05	0.00E+00	9.50E-04	2.49E-05	0.00E+00
172	457755.9	3768335	0.008231	4.22E-04	0.00E+00	8.23E-03	4.22E-04	0.00E+00	2.47E-03	7.59E-05	0.00E+00	9.34E-04	2.45E-05	0.00E+00
173	457747	3768338	0.008063	4.13E-04	0.00E+00	8.06E-03	4.13E-04	0.00E+00	2.42E-03	7.43E-05	0.00E+00	9.15E-04	2.40E-05	0.00E+00
174	457738.2	3768342	0.007871	4.04E-04	0.00E+00	7.87E-03	4.04E-04	0.00E+00	2.36E-03	7.26E-05	0.00E+00	8.93E-04	2.34E-05	0.00E+00
175	457827.5	3768231	0.010591	5.43E-04	0.00E+00	1.06E-02	5.43E-04	0.00E+00	3.17E-03	9.76E-05	0.00E+00	1.20E-03	3.15E-05	0.00E+00
176	457827.4	3768221	0.010708	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.87E-05	0.00E+00	1.21E-03	3.19E-05	0.00E+00
177	457827.3	3768211	0.010762	5.52E-04	0.00E+00	1.08E-02	5.52E-04	0.00E+00	3.22E-03	9.92E-05	0.00E+00	1.22E-03	3.20E-05	0.00E+00
178	457827.2	3768202	0.010749	5.51E-04	0.00E+00	1.07E-02	5.51E-04	0.00E+00	3.22E-03	9.91E-05	0.00E+00	1.22E-03	3.20E-05	0.00E+00
179	457827.1	3768192	0.010662	5.47E-04	0.00E+00	1.07E-02	5.47E-04	0.00E+00	3.19E-03	9.83E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
180	457827	3768182	0.010502	5.38E-04	0.00E+00	1.05E-02	5.38E-04	0.00E+00	3.15E-03	9.68E-05	0.00E+00	1.19E-03	3.13E-05	0.00E+00
181	457826.9	3768173	0.010275	5.27E-04	0.00E+00	1.03E-02	5.27E-04	0.00E+00	3.08E-03	9.47E-05	0.00E+00	1.17E-03	3.06E-05	0.00E+00
182	457826.8	3768163	0.009986	5.12E-04	0.00E+00	9.99E-03	5.12E-04	0.00E+00	2.99E-03	9.21E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
183	457826.6	3768153	0.009639	4.94E-04	0.00E+00	9.64E-03	4.94E-04	0.00E+00	2.89E-03	8.89E-05	0.00E+00	1.09E-03	2.87E-05	0.00E+00
184	457826.5	3768144	0.009241	4.74E-04	0.00E+00	9.24E-03	4.74E-04	0.00E+00	2.77E-03	8.52E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
185	457826.4	3768134	0.008802	4.51E-04	0.00E+00	8.80E-03	4.51E-04	0.00E+00	2.64E-03	8.11E-05	0.00E+00	9.99E-04	2.62E-05	0.00E+00
186	457825.7	3768076	0.00583	2.99E-04	0.00E+00	5.83E-03	2.99E-04	0.00E+00	1.75E-03	5.37E-05	0.00E+00	6.61E-04	1.73E-05	0.00E+00
187	457825.6	3768067	0.005358	2.75E-04	0.00E+00	5.36E-03	2.75E-04	0.00E+00	1.60E-03	4.94E-05	0.00E+00	6.08E-04	1.59E-05	0.00E+00
188	457825.5	3768057	0.004917	2.52E-04	0.00E+00	4.92E-03	2.52E-04	0.00E+00	1.47E-03	4.53E-05	0.00E+00	5.58E-04	1.46E-05	0.00E+00
189	457825.4	3768047	0.004509	2.31E-04	0.00E+00	4.51E-03	2.31E-04	0.00E+00	1.35E-03	4.16E-05	0.00E+00	5.12E-04	1.34E-05	0.00E+00

190	457825.3	3768038	0.004138	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
191	457825.2	3768028	0.003803	1.95E-04	0.00E+00	3.80E-03	1.95E-04	0.00E+00	1.14E-03	3.51E-05	0.00E+00	4.32E-04	1.13E-05	0.00E+00
192	457848.9	3768239	0.009216	4.72E-04	0.00E+00	9.22E-03	4.72E-04	0.00E+00	2.76E-03	8.50E-05	0.00E+00	1.05E-03	2.74E-05	0.00E+00
193	457845.3	3768248	0.009284	4.76E-04	0.00E+00	9.28E-03	4.76E-04	0.00E+00	2.78E-03	8.56E-05	0.00E+00	1.05E-03	2.76E-05	0.00E+00
194	457841.7	3768257	0.009297	4.77E-04	0.00E+00	9.30E-03	4.77E-04	0.00E+00	2.78E-03	8.57E-05	0.00E+00	1.05E-03	2.77E-05	0.00E+00
195	457838.1	3768266	0.009257	4.75E-04	0.00E+00	9.26E-03	4.75E-04	0.00E+00	2.77E-03	8.53E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
196	457834.5	3768275	0.009164	4.70E-04	0.00E+00	9.16E-03	4.70E-04	0.00E+00	2.74E-03	8.45E-05	0.00E+00	1.04E-03	2.73E-05	0.00E+00
197	457830.9	3768284	0.009022	4.63E-04	0.00E+00	9.02E-03	4.63E-04	0.00E+00	2.70E-03	8.32E-05	0.00E+00	1.02E-03	2.68E-05	0.00E+00
198	457827.3	3768293	0.008837	4.53E-04	0.00E+00	8.84E-03	4.53E-04	0.00E+00	2.65E-03	8.15E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
199	457823.7	3768302	0.008613	4.42E-04	0.00E+00	8.61E-03	4.42E-04	0.00E+00	2.58E-03	7.94E-05	0.00E+00	9.77E-04	2.56E-05	0.00E+00
200	457820.1	3768311	0.008358	4.28E-04	0.00E+00	8.36E-03	4.28E-04	0.00E+00	2.50E-03	7.70E-05	0.00E+00	9.48E-04	2.49E-05	0.00E+00
201	457816.5	3768320	0.008354	4.28E-04	0.00E+00	8.35E-03	4.28E-04	0.00E+00	2.50E-03	7.70E-05	0.00E+00	9.48E-04	2.49E-05	0.00E+00
202	457812.9	3768328	0.008018	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.10E-04	2.39E-05	0.00E+00
203	457800.4	3768341	0.007427	3.81E-04	0.00E+00	7.43E-03	3.81E-04	0.00E+00	2.22E-03	6.85E-05	0.00E+00	8.43E-04	2.21E-05	0.00E+00
204	457791.5	3768345	0.007366	3.78E-04	0.00E+00	7.37E-03	3.78E-04	0.00E+00	2.21E-03	6.79E-05	0.00E+00	8.36E-04	2.19E-05	0.00E+00
205	457782.6	3768349	0.007392	3.79E-04	0.00E+00	7.39E-03	3.79E-04	0.00E+00	2.21E-03	6.81E-05	0.00E+00	8.39E-04	2.20E-05	0.00E+00
206	457773.7	3768352	0.007168	3.67E-04	0.00E+00	7.17E-03	3.67E-04	0.00E+00	2.15E-03	6.61E-05	0.00E+00	8.13E-04	2.13E-05	0.00E+00
207	457764.8	3768356	0.007034	3.61E-04	0.00E+00	7.03E-03	3.61E-04	0.00E+00	2.11E-03	6.48E-05	0.00E+00	7.98E-04	2.09E-05	0.00E+00
208	457755.9	3768360	0.006881	3.53E-04	0.00E+00	6.88E-03	3.53E-04	0.00E+00	2.06E-03	6.34E-05	0.00E+00	7.81E-04	2.05E-05	0.00E+00
209	457747.1	3768363	0.006709	3.44E-04	0.00E+00	6.71E-03	3.44E-04	0.00E+00	2.01E-03	6.18E-05	0.00E+00	7.61E-04	2.00E-05	0.00E+00
210	457738.2	3768367	0.006523	3.34E-04	0.00E+00	6.52E-03	3.34E-04	0.00E+00	1.95E-03	6.01E-05	0.00E+00	7.40E-04	1.94E-05	0.00E+00
211	457852.5	3768230	0.009094	4.66E-04	0.00E+00	9.09E-03	4.66E-04	0.00E+00	2.72E-03	8.38E-05	0.00E+00	1.03E-03	2.71E-05	0.00E+00
212	457852.4	3768221	0.009129	4.68E-04	0.00E+00	9.13E-03	4.68E-04	0.00E+00	2.73E-03	8.42E-05	0.00E+00	1.04E-03	2.72E-05	0.00E+00
213	457852.3	3768211	0.009117	4.67E-04	0.00E+00	9.12E-03	4.67E-04	0.00E+00	2.73E-03	8.40E-05	0.00E+00	1.03E-03	2.71E-05	0.00E+00
214	457852.2	3768201	0.009056	4.64E-04	0.00E+00	9.06E-03	4.64E-04	0.00E+00	2.71E-03	8.35E-05	0.00E+00	1.03E-03	2.69E-05	0.00E+00
215	457852.1	3768192	0.008943	4.58E-04	0.00E+00	8.94E-03	4.58E-04	0.00E+00	2.68E-03	8.24E-05	0.00E+00	1.01E-03	2.66E-05	0.00E+00
216	457852	3768182	0.00878	4.50E-04	0.00E+00	8.78E-03	4.50E-04	0.00E+00	2.63E-03	8.09E-05	0.00E+00	9.96E-04	2.61E-05	0.00E+00
217	457851.9	3768172	0.008571	4.39E-04	0.00E+00	8.57E-03	4.39E-04	0.00E+00	2.57E-03	7.90E-05	0.00E+00	9.72E-04	2.55E-05	0.00E+00
218	457851.8	3768163	0.008316	4.26E-04	0.00E+00	8.32E-03	4.26E-04	0.00E+00	2.49E-03	7.67E-05	0.00E+00	9.44E-04	2.47E-05	0.00E+00
219	457851.6	3768153	0.008021	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.10E-04	2.39E-05	0.00E+00
220	457851.5	3768144	0.007691	3.94E-04	0.00E+00	7.69E-03	3.94E-04	0.00E+00	2.30E-03	7.09E-05	0.00E+00	8.73E-04	2.29E-05	0.00E+00
221	457851.4	3768134	0.007333	3.76E-04	0.00E+00	7.33E-03	3.76E-04	0.00E+00	2.20E-03	6.76E-05	0.00E+00	8.32E-04	2.18E-05	0.00E+00
222	457850.7	3768076	0.004993	2.56E-04	0.00E+00	4.99E-03	2.56E-04	0.00E+00	1.50E-03	4.60E-05	0.00E+00	5.66E-04	1.49E-05	0.00E+00
223	457850.6	3768066	0.004627	2.37E-04	0.00E+00	4.63E-03	2.37E-04	0.00E+00	1.39E-03	4.26E-05	0.00E+00	5.25E-04	1.38E-05	0.00E+00
224	457850.5	3768057	0.004281	2.19E-04	0.00E+00	4.28E-03	2.19E-04	0.00E+00	1.28E-03	3.95E-05	0.00E+00	4.86E-04	1.27E-05	0.00E+00
225	457850.4	3768047	0.003959	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.49E-04	1.18E-05	0.00E+00
226	457850.3	3768037	0.00366	1.88E-04	0.00E+00	3.66E-03	1.88E-04	0.00E+00	1.10E-03	3.37E-05	0.00E+00	4.15E-04	1.09E-05	0.00E+00
227	457850.2	3768028	0.003387	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.01E-03	3.12E-05	0.00E+00	3.84E-04	1.01E-05	0.00E+00
228	457873.9	3768239	0.008029	4.12E-04	0.00E+00	8.03E-03	4.12E-04	0.00E+00	2.40E-03	7.40E-05	0.00E+00	9.11E-04	2.39E-05	0.00E+00
229	457870.3	3768248	0.00813	4.17E-04	0.00E+00	8.13E-03	4.17E-04	0.00E+00	2.43E-03	7.49E-05	0.00E+00	9.22E-04	2.42E-05	0.00E+00
230	457866.7	3768257	0.008189	4.20E-04	0.00E+00	8.19E-03	4.20E-04	0.00E+00	2.45E-03	7.55E-05	0.00E+00	9.29E-04	2.44E-05	0.00E+00
231	457863.1	3768266	0.008208	4.21E-04	0.00E+00	8.21E-03	4.21E-04	0.00E+00	2.46E-03	7.57E-05	0.00E+00	9.31E-04	2.44E-05	0.00E+00
232	457859.5	3768275	0.008185	4.20E-04	0.00E+00	8.18E-03	4.20E-04	0.00E+00	2.45E-03	7.54E-05	0.00E+00	9.29E-04	2.44E-05	0.00E+00
233	457855.9	3768284	0.008121	4.16E-04	0.00E+00	8.12E-03	4.16E-04	0.00E+00	2.43E-03	7.49E-05	0.00E+00	9.21E-04	2.42E-05	0.00E+00
234	457852.3	3768292	0.008386	4.30E-04	0.00E+00	8.39E-03	4.30E-04	0.00E+00	2.51E-03	7.73E-05	0.00E+00	9.51E-04	2.50E-05	0.00E+00
235	457848.7	3768301	0.008236	4.22E-04	0.00E+00	8.24E-03	4.22E-04	0.00E+00	2.47E-03	7.59E-05	0.00E+00	9.34E-04	2.45E-05	0.00E+00
236	457845.1	3768310	0.008048	4.13E-04	0.00E+00	8.05E-03	4.13E-04	0.00E+00	2.41E-03	7.42E-05	0.00E+00	9.13E-04	2.39E-05	0.00E+00
237	457841.5	3768319	0.007828	4.01E-04	0.00E+00	7.83E-03	4.01E-04	0.00E+00	2.34E-03	7.22E-05	0.00E+00	8.88E-04	2.33E-05	0.00E+00
238	457837.9	3768328	0.007587	3.89E-04	0.00E+00	7.59E-03	3.89E-04	0.00E+00	2.27E-03	6.99E-05	0.00E+00	8.61E-04	2.26E-05	0.00E+00
239	457834.3	3768337	0.007323	3.75E-04	0.00E+00	7.32E-03	3.75E-04	0.00E+00	2.19E-03	6.75E-05	0.00E+00	8.31E-04	2.18E-05	0.00E+00
240	457830.7	3768346	0.007041	3.61E-04	0.00E+00	7.04E-03	3.61E-04	0.00E+00	2.11E-03	6.49E-05	0.00E+00	7.99E-04	2.10E-05	0.00E+00
241	457818.2	3768359	0.006687	3.43E-04	0.00E+00	6.69E-03	3.43E-04	0.00E+00	2.00E-03	6.16E-05	0.00E+00	7.59E-04	1.99E-05	0.00E+00
242	457809.3	3768362	0.006605	3.39E-04	0.00E+00	6.61E-03	3.39E-04	0.00E+00	1.98E-03	6.09E-05	0.00E+00	7.49E-04	1.97E-05	0.00E+00
243	457800.4	3768366	0.006503	3.33E-04	0.00E+00	6.50E-03	3.33E-04	0.00E+00	1.95E-03	5.99E-05	0.00E+00	7.38E-04	1.94E-05	0.00E+00
244	457791.5	3768370	0.006384	3.27E-04	0.00E+00	6.38E-03	3.27E-04	0.00E+00	1.91E-03	5.88E-05	0.00E+00	7.24E-04	1.90E-05	0.00E+00
245	457782.6	3768374	0.00625	3.20E-04	0.00E+00	6.25E-03	3.20E-04	0.00E+00	1.87E-03	5.76E-05	0.00E+00	7.09E-04	1.86E-05	0.00E+00
246	457773.7	3768377	0.006099	3.13E-04	0.00E+00	6.10E-03	3.13E-04	0.00E+00	1.83E-03	5.62E-05	0.00E+00	6.92E-04	1.81E-05	0.00E+00
247	457764.8	3768381	0.005931	3.04E-04	0.00E+00	5.93E-03	3.04E-04	0.00E+00	1.78E-03	5.47E-05	0.00E+00	6.73E-04	1.76E-05	0.00E+00
248	457756	3768385	0.005752	2.95E-04	0.00E+00	5.75E-03	2.95E-04	0.00E+00	1.72E-03	5.30E-05	0.00E+00	6.53E-04	1.71E-05	0.00E+00
249	457747.1	3768388	0.005563	2.85E-04	0.00E+00	5.56E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.31E-04	1.66E-05	0.00E+00
250	457738.2	3768392	0.005373	2.75E-04	0.00E+00	5.37E-03	2.75E-04	0.00E+00	1.61E-03	4.95E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
251	457877.5	3768230	0.007889	4.04E-04	0.00E+00	7.89E-03	4.04E-04	0.00E+00	2.36E-03	7.27E-05	0.00E+00	8.95E-04	2.35E-05	0.00E+00
252	457877.4	3768220	0.007875	4.04E-04	0.00E+00	7.88E-03	4.04E-04	0.00E+00	2.36E-03	7.26E-05	0.00E+00	8.93E-04	2.34E-05	0.00E+00
253	457877.3	3768211	0.007824	4.01E-04	0.00E+00	7.82E-03	4.01E-04	0.00E+00	2.34E-03	7.21E-05	0.00E+00	8.88E-04	2.33E-05	0.00E+00
254	457877.2	3768201	0.007736	3.97E-04	0.00E+00	7.74E-03	3.97E-04	0.00E+00	2.32E-03	7.13E-05	0.00E+00	8.78E-04	2.30E-05	0.00E+00
255	457877.1	3768191	0.007614	3.90E-04	0.00E+00	7.61E-03	3.90E-04	0.00E+00	2.28E-03	7.02E-05	0.00E+00	8.64E-04	2.27E-05	0.00E+00
256	457877	3768182	0.00746	3.82E-04	0.00E+00	7.46E-03	3.82E-04	0.00E+00	2.23E-03	6.88E-05	0.00E+00	8.46E-04	2.22E-05	0.00E+00
257	457876.9	3768172	0.007273	3.73E-04	0.00E+00	7.27E-03	3.73E-04	0.00E+00	2.18E-03	6.70E-05	0.00E+00	8.25E-04	2.16E-05	0.00E+00
258	457876.8	3768162	0.007052	3.62E-04	0.00E+00	7.05E-03	3.62E-04	0.00E+00	2.11E-03	6.50E-05	0.00E+00	8.00E-04	2.10E-05	0.00E+00
259	457876.6	3768153	0.0068	3.49E-04	0.00E+00	6.80E-03	3.49E-04	0.00E+00	2.04E-03	6.27E-05	0.00E+00	7.71E-04	2.02E-05	0.00E+00
260	457876.5	3768143	0.006525	3.35E-04	0.00E+00	6.53E-03	3.35E-04	0.00E+00	1.95E-03	6.01E-05	0.00E+00	7.40E-04	1.94E-05	0.00E+00
261	457876.4	3768134	0.006232	3.19E-04	0.00E+00	6.23E-03	3.19E-04	0.00E+00	1.87E-03	5.74E-05	0.00E+00	7.07E-04	1.85E-05	0.00E+00
262	457875.7	3768076	0.004345	2.23E-04	0.00E+00	4.34E-03	2.23E-04	0.00E+00	1.30E-03	4.01E-05	0.00E+00	4.93E-04	1.29E-05	0.00E+00
263	457875.6	3768066	0.004054	2.08E-04	0.00E+00	4.05E-03	2.08E-04	0.00E+00	1.21E-03	3.74E-05	0.00E+00	4.60E-04	1.21E-05	0.00E+00
264	457875.5	3768056	0.003778	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.48E-05	0.00E+00	4.29E-04	1.12E-05	0.00E+00
265	457875.4	3768047	0.003518	1.80E-04	0.00E+00	3.52E-03	1.80E-04	0.00E+00	1.05E-03	3.24E-05	0.00E+00	3.99E-04	1.05E-05	0.00E+00
266	457875.3	3768037	0.003273	1.68E-04	0.00E+00	3.27E-03	1.68E-04	0.00E+00	9.80E-04	3.02E-05	0.00E+00	3.71E-04	9.74E-06	0.00E+00
267	457875.2	3768028	0.003045	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.12E-04	2.81E-05	0.00E+00	3.46E-04	9.06E-06	0.00E+00
268	457898.9	3768239	0.007045	3.61E-04	0.00E+00	7.05E-03	3.61E-04	0.00E+00	2.11E-03	6.49E-05	0.00E+00	7.99E-04	2.10E-05	0.00E+00
269	457895.3	3768248	0.00716	3.67E-04	0.00E+00	7.16E-03	3.67E-04	0.00E+00	2.14E-03	6.60E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
270	457891.7	3768256	0.007245	3.71E-04	0.00E+00	7.25E-03	3.71E-04	0.00E+00	2.17E-03	6.68E-05	0.00E+00	8.22E-04	2.16E-05	0.00E+00
271	457888.1	3768265	0.007634	3.91E-04	0.00E+00	7.63E-03	3.91E-04	0.00E+00	2.29E-03	7.04E-05	0.00E+00	8.66E-04	2.27E-05	0.00E+00
272	457884.5	3768274	0.007668	3.93E-04	0.00E+00	7.67E-03	3.93E-04	0.00E+00	2.30E-03	7.07E-05	0.00E+00	8.70E-04	2.28E-05	0.00E+00
273	457880.9	3768283	0.007662	3.93E-04	0.00E+00	7.66E-03	3.93E-04	0.00E+00	2.29E-03	7.06E-05	0.00E+00	8.69E-04	2.28E-05	0.00E+00
274	457877.3	3768292	0.007619	3.91E-04	0.00E+00	7.62E-03	3.91E-04	0.00E+00	2.28E-03	7.02E-05	0.00E+00	8.64E-04	2.27E-05	0.00E+00
275	457873.7	3768301	0.007543	3.87E-04	0.00E+00	7.54E-03	3.87E-04	0.00E+00	2.26E-03	6.95E-05	0.00E+00	8.56E-04	2.24E-05	0.00E+00
276	457870.1	3768310	0.007435	3.81E-04	0.00E+00	7.44E-03	3.81E-04	0.00E+00	2.23E-03	6.85E-05	0.00E+00	8.44E-04	2.21E-05	0.00E+00
277	457866.5	3768319	0.007293	3.74E-04	0.00E+00	7.29E-03	3.74E-04	0.00E+00	2.18E-03	6.72E-05	0.00E+00	8.27E-04	2.17E-05	0.00E+00
278	457862.9	3768328	0.00712	3.65E-04	0.00E+00	7.12E-03	3.65E-04	0.00E+00	2.13E-03	6.56E-05	0.00E+00	8.08E-04	2.12E-05	0.00E+00
279	457859.3	3768337	0.006926	3.55E-04	0.00E+00	6.93E-03	3.55E-04	0.00E+00	2.07E-03	6.38E-05	0.00E+00	7.86E-04	2.06E-05	0.00E+00
280	457855.7	3768346	0.006713	3.44E-04	0.00E+00	6.71E-03	3.44E-04	0.00E+00	2.01E-03	6.19E-05	0.00E+00	7.62E-04	2.00E-05	0.00E+00
281	457852	3768355	0.006484	3.32E-04	0.00E+00	6.48E-03	3.32E-04	0.00E+00	1.94E-03	5.98E-05	0.00E+00	7.36E-04	1.93E-05	0.00E+00
282	457848.4	3768364	0.006243	3.20E-04	0.00E+00	6.24E-03	3.20E-04	0.00E+00	1.87E-03	5.76E-05	0.00E+00	7.08E-04	1.86E-05	0.00E+00
283	457835.9	3768376	0.005938	3.04E-04	0.00E+00	5.94E-03	3.04E-04	0.00E+00	1.78E-03	5.47E-05	0.00E+00	6.74E-04	1.77E-05	0.00E+00
284	457827.1	3768380	0.005864	3.01E-04	0.00E+00	5.86E-03	3.01E-04	0.00E+00	1.76E-03	5.41E-05	0.00E+00	6.65E-04	1.74E-05	0.00E+00
285	457818.2	3768384	0.005774	2.96E-04	0.00E+00	5.77E-03	2.96E-04	0.00E+00	1.73E-03	5.32E-05	0.00E+00	6.55E-04	1.72E-05	0.00E+00

286	457809.3	3768387	0.005669	2.91E-04	0.00E+00	5.67E-03	2.91E-04	0.00E+00	1.70E-03	5.23E-05	0.00E+00	6.43E-04	1.69E-05	0.00E+00
287	457800.4	3768391	0.005552	2.85E-04	0.00E+00	5.55E-03	2.85E-04	0.00E+00	1.66E-03	5.12E-05	0.00E+00	6.30E-04	1.65E-05	0.00E+00
288	457791.5	3768395	0.005422	2.78E-04	0.00E+00	5.42E-03	2.78E-04	0.00E+00	1.62E-03	5.00E-05	0.00E+00	6.15E-04	1.61E-05	0.00E+00
289	457902.5	3768230	0.007148	3.66E-04	0.00E+00	7.15E-03	3.66E-04	0.00E+00	2.14E-03	6.59E-05	0.00E+00	8.11E-04	2.13E-05	0.00E+00
290	457902.4	3768220	0.006861	3.52E-04	0.00E+00	6.86E-03	3.52E-04	0.00E+00	2.06E-03	6.32E-05	0.00E+00	7.78E-04	2.04E-05	0.00E+00
291	457902.3	3768210	0.006793	3.48E-04	0.00E+00	6.79E-03	3.48E-04	0.00E+00	2.03E-03	6.26E-05	0.00E+00	7.71E-04	2.02E-05	0.00E+00
292	457902.2	3768201	0.006696	3.43E-04	0.00E+00	6.70E-03	3.43E-04	0.00E+00	2.01E-03	6.17E-05	0.00E+00	7.60E-04	1.99E-05	0.00E+00
293	457902.1	3768191	0.006575	3.37E-04	0.00E+00	6.58E-03	3.37E-04	0.00E+00	1.97E-03	6.06E-05	0.00E+00	7.46E-04	1.96E-05	0.00E+00
294	457902	3768181	0.006431	3.30E-04	0.00E+00	6.43E-03	3.30E-04	0.00E+00	1.93E-03	5.93E-05	0.00E+00	7.30E-04	1.91E-05	0.00E+00
295	457901.9	3768172	0.006261	3.21E-04	0.00E+00	6.26E-03	3.21E-04	0.00E+00	1.88E-03	5.77E-05	0.00E+00	7.10E-04	1.86E-05	0.00E+00
296	457901.8	3768162	0.006068	3.11E-04	0.00E+00	6.07E-03	3.11E-04	0.00E+00	1.82E-03	5.59E-05	0.00E+00	6.88E-04	1.81E-05	0.00E+00
297	457901.6	3768153	0.005853	3.00E-04	0.00E+00	5.85E-03	3.00E-04	0.00E+00	1.75E-03	5.40E-05	0.00E+00	6.64E-04	1.74E-05	0.00E+00
298	457901.5	3768143	0.005623	2.88E-04	0.00E+00	5.62E-03	2.88E-04	0.00E+00	1.68E-03	5.18E-05	0.00E+00	6.38E-04	1.67E-05	0.00E+00
299	457901.4	3768133	0.005379	2.76E-04	0.00E+00	5.38E-03	2.76E-04	0.00E+00	1.61E-03	4.96E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
300	457900.7	3768075	0.003837	1.97E-04	0.00E+00	3.84E-03	1.97E-04	0.00E+00	1.15E-03	3.54E-05	0.00E+00	4.35E-04	1.14E-05	0.00E+00
301	457900.6	3768066	0.003599	1.85E-04	0.00E+00	3.60E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.08E-04	1.07E-05	0.00E+00
302	457900.5	3768056	0.003372	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.00E-05	0.00E+00
303	457900.4	3768047	0.003156	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.45E-04	2.91E-05	0.00E+00	3.58E-04	9.39E-06	0.00E+00
304	457900.3	3768037	0.002951	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.84E-04	2.72E-05	0.00E+00	3.35E-04	8.78E-06	0.00E+00
305	457900.2	3768027	0.00276	1.41E-04	0.00E+00	2.76E-03	1.41E-04	0.00E+00	8.27E-04	2.54E-05	0.00E+00	3.13E-04	8.21E-06	0.00E+00
306	457923.9	3768238	0.006457	3.31E-04	0.00E+00	6.46E-03	3.31E-04	0.00E+00	1.93E-03	5.95E-05	0.00E+00	7.33E-04	1.92E-05	0.00E+00
307	457920.3	3768247	0.006604	3.39E-04	0.00E+00	6.60E-03	3.39E-04	0.00E+00	1.98E-03	6.09E-05	0.00E+00	7.49E-04	1.97E-05	0.00E+00
308	457916.7	3768256	0.006724	3.45E-04	0.00E+00	6.72E-03	3.45E-04	0.00E+00	2.01E-03	6.20E-05	0.00E+00	7.63E-04	2.00E-05	0.00E+00
309	457913.1	3768265	0.006816	3.49E-04	0.00E+00	6.82E-03	3.49E-04	0.00E+00	2.04E-03	6.28E-05	0.00E+00	7.73E-04	2.03E-05	0.00E+00
310	457909.5	3768274	0.00688	3.53E-04	0.00E+00	6.88E-03	3.53E-04	0.00E+00	2.06E-03	6.34E-05	0.00E+00	7.81E-04	2.05E-05	0.00E+00
311	457905.9	3768283	0.006916	3.55E-04	0.00E+00	6.92E-03	3.55E-04	0.00E+00	2.07E-03	6.37E-05	0.00E+00	7.85E-04	2.06E-05	0.00E+00
312	457902.3	3768292	0.006919	3.55E-04	0.00E+00	6.92E-03	3.55E-04	0.00E+00	2.07E-03	6.38E-05	0.00E+00	7.85E-04	2.06E-05	0.00E+00
313	457898.7	3768301	0.006889	3.53E-04	0.00E+00	6.89E-03	3.53E-04	0.00E+00	2.06E-03	6.35E-05	0.00E+00	7.82E-04	2.05E-05	0.00E+00
314	457895.1	3768310	0.006831	3.50E-04	0.00E+00	6.83E-03	3.50E-04	0.00E+00	2.05E-03	6.30E-05	0.00E+00	7.75E-04	2.03E-05	0.00E+00
315	457891.5	3768319	0.006745	3.46E-04	0.00E+00	6.75E-03	3.46E-04	0.00E+00	2.02E-03	6.22E-05	0.00E+00	7.65E-04	2.01E-05	0.00E+00
316	457887.9	3768328	0.006634	3.40E-04	0.00E+00	6.63E-03	3.40E-04	0.00E+00	1.99E-03	6.11E-05	0.00E+00	7.53E-04	1.97E-05	0.00E+00
317	457884.3	3768337	0.006499	3.33E-04	0.00E+00	6.50E-03	3.33E-04	0.00E+00	1.95E-03	5.99E-05	0.00E+00	7.37E-04	1.93E-05	0.00E+00
318	457880.6	3768345	0.006344	3.25E-04	0.00E+00	6.34E-03	3.25E-04	0.00E+00	1.90E-03	5.85E-05	0.00E+00	7.20E-04	1.89E-05	0.00E+00
319	457877	3768354	0.006173	3.16E-04	0.00E+00	6.17E-03	3.16E-04	0.00E+00	1.85E-03	5.69E-05	0.00E+00	7.00E-04	1.84E-05	0.00E+00
320	457873.4	3768363	0.005986	3.07E-04	0.00E+00	5.99E-03	3.07E-04	0.00E+00	1.79E-03	5.52E-05	0.00E+00	6.79E-04	1.78E-05	0.00E+00
321	457869.8	3768372	0.005788	2.97E-04	0.00E+00	5.79E-03	2.97E-04	0.00E+00	1.73E-03	5.34E-05	0.00E+00	6.57E-04	1.72E-05	0.00E+00
322	457866.2	3768381	0.005581	2.86E-04	0.00E+00	5.58E-03	2.86E-04	0.00E+00	1.67E-03	5.15E-05	0.00E+00	6.33E-04	1.66E-05	0.00E+00
323	457853.7	3768394	0.005315	2.73E-04	0.00E+00	5.32E-03	2.73E-04	0.00E+00	1.59E-03	4.90E-05	0.00E+00	6.03E-04	1.58E-05	0.00E+00
324	457927.5	3768229	0.006288	3.22E-04	0.00E+00	6.29E-03	3.22E-04	0.00E+00	1.88E-03	5.80E-05	0.00E+00	7.13E-04	1.87E-05	0.00E+00
325	457927.4	3768220	0.006029	3.09E-04	0.00E+00	6.03E-03	3.09E-04	0.00E+00	1.81E-03	5.56E-05	0.00E+00	6.84E-04	1.79E-05	0.00E+00
326	457927.3	3768210	0.005953	3.05E-04	0.00E+00	5.95E-03	3.05E-04	0.00E+00	1.78E-03	5.49E-05	0.00E+00	6.75E-04	1.77E-05	0.00E+00
327	457927.2	3768200	0.005856	3.00E-04	0.00E+00	5.86E-03	3.00E-04	0.00E+00	1.75E-03	5.40E-05	0.00E+00	6.64E-04	1.74E-05	0.00E+00
328	457927.1	3768191	0.005738	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.51E-04	1.71E-05	0.00E+00
329	457927	3768181	0.005602	2.87E-04	0.00E+00	5.60E-03	2.87E-04	0.00E+00	1.68E-03	5.16E-05	0.00E+00	6.36E-04	1.67E-05	0.00E+00
330	457926.9	3768172	0.005448	2.79E-04	0.00E+00	5.45E-03	2.79E-04	0.00E+00	1.63E-03	5.02E-05	0.00E+00	6.18E-04	1.62E-05	0.00E+00
331	457926.8	3768162	0.005279	2.71E-04	0.00E+00	5.28E-03	2.71E-04	0.00E+00	1.58E-03	4.87E-05	0.00E+00	5.99E-04	1.57E-05	0.00E+00
332	457926.6	3768152	0.005098	2.61E-04	0.00E+00	5.10E-03	2.61E-04	0.00E+00	1.53E-03	4.70E-05	0.00E+00	5.78E-04	1.52E-05	0.00E+00
333	457926.5	3768143	0.004906	2.52E-04	0.00E+00	4.91E-03	2.52E-04	0.00E+00	1.47E-03	4.52E-05	0.00E+00	5.57E-04	1.46E-05	0.00E+00
334	457926.4	3768133	0.004703	2.41E-04	0.00E+00	4.70E-03	2.41E-04	0.00E+00	1.41E-03	4.34E-05	0.00E+00	5.34E-04	1.40E-05	0.00E+00
335	457926.3	3768123	0.004491	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.35E-03	4.14E-05	0.00E+00	5.10E-04	1.34E-05	0.00E+00
336	457926.2	3768114	0.004276	2.19E-04	0.00E+00	4.28E-03	2.19E-04	0.00E+00	1.28E-03	3.94E-05	0.00E+00	4.85E-04	1.27E-05	0.00E+00
337	457926.1	3768104	0.004059	2.08E-04	0.00E+00	4.06E-03	2.08E-04	0.00E+00	1.22E-03	3.74E-05	0.00E+00	4.61E-04	1.21E-05	0.00E+00
338	457926	3768094	0.003844	1.97E-04	0.00E+00	3.84E-03	1.97E-04	0.00E+00	1.15E-03	3.54E-05	0.00E+00	4.36E-04	1.14E-05	0.00E+00
339	457925.9	3768085	0.003631	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
340	457925.7	3768075	0.003424	1.76E-04	0.00E+00	3.42E-03	1.76E-04	0.00E+00	1.03E-03	3.16E-05	0.00E+00	3.88E-04	1.02E-05	0.00E+00
341	457925.6	3768066	0.003223	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.65E-04	2.97E-05	0.00E+00	3.66E-04	9.59E-06	0.00E+00
342	457925.5	3768056	0.003031	1.55E-04	0.00E+00	3.03E-03	1.55E-04	0.00E+00	9.08E-04	2.79E-05	0.00E+00	3.44E-04	9.02E-06	0.00E+00
343	457925.4	3768046	0.002848	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.53E-04	2.63E-05	0.00E+00	3.23E-04	8.47E-06	0.00E+00
344	457925.3	3768037	0.002676	1.37E-04	0.00E+00	2.68E-03	1.37E-04	0.00E+00	8.02E-04	2.47E-05	0.00E+00	3.04E-04	7.96E-06	0.00E+00
345	457925.2	3768027	0.002516	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.49E-06	0.00E+00
346	457948.9	3768238	0.005728	2.94E-04	0.00E+00	5.73E-03	2.94E-04	0.00E+00	1.72E-03	5.28E-05	0.00E+00	6.50E-04	1.70E-05	0.00E+00
347	457945.3	3768247	0.005874	3.01E-04	0.00E+00	5.87E-03	3.01E-04	0.00E+00	1.76E-03	5.41E-05	0.00E+00	6.66E-04	1.75E-05	0.00E+00
348	457941.7	3768256	0.006001	3.08E-04	0.00E+00	6.00E-03	3.08E-04	0.00E+00	1.80E-03	5.53E-05	0.00E+00	6.81E-04	1.79E-05	0.00E+00
349	457938.1	3768265	0.006103	3.13E-04	0.00E+00	6.10E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.92E-04	1.82E-05	0.00E+00
350	457934.5	3768274	0.006182	3.17E-04	0.00E+00	6.18E-03	3.17E-04	0.00E+00	1.85E-03	5.70E-05	0.00E+00	7.01E-04	1.84E-05	0.00E+00
351	457930.9	3768283	0.006238	3.20E-04	0.00E+00	6.24E-03	3.20E-04	0.00E+00	1.87E-03	5.75E-05	0.00E+00	7.08E-04	1.86E-05	0.00E+00
352	457927.3	3768292	0.006269	3.21E-04	0.00E+00	6.27E-03	3.21E-04	0.00E+00	1.88E-03	5.78E-05	0.00E+00	7.11E-04	1.87E-05	0.00E+00
353	457923.7	3768301	0.006275	3.22E-04	0.00E+00	6.28E-03	3.22E-04	0.00E+00	1.88E-03	5.78E-05	0.00E+00	7.12E-04	1.87E-05	0.00E+00
354	457920.1	3768309	0.006257	3.21E-04	0.00E+00	6.26E-03	3.21E-04	0.00E+00	1.87E-03	5.77E-05	0.00E+00	7.10E-04	1.86E-05	0.00E+00
355	457916.5	3768318	0.006215	3.19E-04	0.00E+00	6.21E-03	3.19E-04	0.00E+00	1.86E-03	5.73E-05	0.00E+00	7.05E-04	1.85E-05	0.00E+00
356	457912.9	3768327	0.006149	3.15E-04	0.00E+00	6.15E-03	3.15E-04	0.00E+00	1.84E-03	5.67E-05	0.00E+00	6.98E-04	1.83E-05	0.00E+00
357	457909.3	3768336	0.006063	3.11E-04	0.00E+00	6.06E-03	3.11E-04	0.00E+00	1.82E-03	5.59E-05	0.00E+00	6.88E-04	1.80E-05	0.00E+00
358	457905.6	3768345	0.005956	3.05E-04	0.00E+00	5.96E-03	3.05E-04	0.00E+00	1.78E-03	5.49E-05	0.00E+00	6.76E-04	1.77E-05	0.00E+00
359	457902	3768354	0.005837	2.99E-04	0.00E+00	5.84E-03	2.99E-04	0.00E+00	1.75E-03	5.38E-05	0.00E+00	6.62E-04	1.74E-05	0.00E+00
360	457898.4	3768363	0.0057	2.92E-04	0.00E+00	5.70E-03	2.92E-04	0.00E+00	1.71E-03	5.25E-05	0.00E+00	6.47E-04	1.70E-05	0.00E+00
361	457894.8	3768372	0.005548	2.84E-04	0.00E+00	5.55E-03	2.84E-04	0.00E+00	1.66E-03	5.11E-05	0.00E+00	6.29E-04	1.65E-05	0.00E+00
362	457891.2	3768381	0.005383	2.76E-04	0.00E+00	5.38E-03	2.76E-04	0.00E+00	1.61E-03	4.96E-05	0.00E+00	6.11E-04	1.60E-05	0.00E+00
363	457887.6	3768390	0.005208	2.67E-04	0.00E+00	5.21E-03	2.67E-04	0.00E+00	1.56E-03	4.80E-05	0.00E+00	5.91E-04	1.55E-05	0.00E+00
364	457764.9	3768456	0.003541	1.82E-04	0.00E+00	3.54E-03	1.82E-04	0.00E+00	1.06E-03	3.26E-05	0.00E+00	4.02E-04	1.05E-05	0.00E+00
365	457756	3768460	0.003413	1.75E-04	0.00E+00	3.41E-03	1.75E-04	0.00E+00	1.02E-03	3.15E-05	0.00E+00	3.87E-04	1.02E-05	0.00E+00
366	457747.1	3768463	0.003284	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.84E-04	3.03E-05	0.00E+00	3.73E-04	9.77E-06	0.00E+00
367	457738.2	3768467	0.003151	1.62E-04	0.00E+00	3.15E-03	1.62E-04	0.00E+00	9.44E-04	2.90E-05	0.00E+00	3.58E-04	9.38E-06	0.00E+00
368	457952.5	3768229	0.005567	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.32E-04	1.66E-05	0.00E+00
369	457952.4	3768219	0.005339	2.74E-04	0.00E+00	5.34E-03	2.74E-04	0.00E+00	1.60E-03	4.92E-05	0.00E+00	6.06E-04	1.59E-05	0.00E+00
370	457952.3	3768210	0.005261	2.70E-04	0.00E+00	5.26E-03	2.70E-04	0.00E+00	1.58E-03	4.85E-05	0.00E+00	5.97E-04	1.57E-05	0.00E+00
371	457952.2	3768200	0.005167	2.65E-04	0.00E+00	5.17E-03	2.65E-04	0.00E+00	1.55E-03	4.76E-05	0.00E+00	5.86E-04	1.54E-05	0.00E+00
372	457952.1	3768191	0.005058	2.59E-04	0.00E+00	5.06E-03	2.59E-04	0.00E+00	1.51E-03	4.66E-05	0.00E+00	5.74E-04	1.50E-05	0.00E+00
373	457952	3768181	0.004933	2.53E-04	0.00E+00	4.93E-03	2.53E-04	0.00E+00	1.48E-03	4.55E-05	0.00E+00	5.60E-04	1.47E-05	0.00E+00
374	457951.9	3768171	0.004796	2.46E-04	0.00E+00	4.80E-03	2.46E-04	0.00E+00	1.44E-03	4.42E-05	0.00E+00	5.44E-04	1.43E-05	0.00E+00
375	457951.8	3768162	0.004647	2.38E-04	0.00E+00	4.65E-03	2.38E-04	0.00E+00	1.39E-03	4.28E-05	0.00E+00	5.27E-04	1.38E-05	0.00E+00
376	457951.6	3768152	0.004489	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.34E-03	4.14E-05	0.00E+00	5.09E-04	1.34E-05	0.00E+00
377	457951.5	3768142	0.004323	2.22E-04	0.00E+00	4.32E-03	2.22E-04	0.00E+00	1.29E-03	3.98E-05	0.00E+00	4.90E-04	1.29E-05	0.00E+00
378	457951.4	3768133	0.00415	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.83E-05	0.00E+00	4.71E-04	1.23E-05	0.00E+00
379	457951.3	3768123	0.003974	2.04E-04	0.00E+00	3.97E-03	2.04E-04	0.00E+00	1.19E-03	3.66E-05	0.00E+00	4.51E-04	1.18E-05	0.00E+00
380	457951.2	3768113	0.003795	1.95E-04	0.00E+00	3.79E-03	1.95E-04	0.00E+00	1.14E-03	3.50E-05	0.00E+00	4.31E-04	1.13E-05	0.00E+00
381	457951.1	3768104	0.003614	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.10E-04	1.08E-05	0.00E+00

382	457951	3768094	0.003433	1.76E-04	0.00E+00	3.43E-03	1.76E-04	0.00E+00	1.03E-03	3.16E-05	0.00E+00	3.90E-04	1.02E-05	0.00E+00
383	457950.9	3768085	0.003254	1.67E-04	0.00E+00	3.25E-03	1.67E-04	0.00E+00	9.75E-04	3.00E-05	0.00E+00	3.69E-04	9.68E-06	0.00E+00
384	457950.7	3768075	0.00308	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.23E-04	2.84E-05	0.00E+00	3.49E-04	9.17E-06	0.00E+00
385	457950.6	3768065	0.002911	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.72E-04	2.68E-05	0.00E+00	3.30E-04	8.66E-06	0.00E+00
386	457950.5	3768056	0.002748	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.23E-04	2.53E-05	0.00E+00	3.12E-04	8.18E-06	0.00E+00
387	457950.4	3768046	0.002592	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.76E-04	2.39E-05	0.00E+00	2.94E-04	7.71E-06	0.00E+00
388	457950.3	3768036	0.002445	1.25E-04	0.00E+00	2.45E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.28E-06	0.00E+00
389	457950.2	3768027	0.002307	1.18E-04	0.00E+00	2.31E-03	1.18E-04	0.00E+00	6.91E-04	2.13E-05	0.00E+00	2.62E-04	6.86E-06	0.00E+00
390	457973.9	3768238	0.005113	2.62E-04	0.00E+00	5.11E-03	2.62E-04	0.00E+00	1.53E-03	4.71E-05	0.00E+00	5.80E-04	1.52E-05	0.00E+00
391	457970.3	3768247	0.005249	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.96E-04	1.56E-05	0.00E+00
392	457966.7	3768256	0.005373	2.75E-04	0.00E+00	5.37E-03	2.75E-04	0.00E+00	1.61E-03	4.95E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
393	457963.1	3768265	0.005478	2.81E-04	0.00E+00	5.48E-03	2.81E-04	0.00E+00	1.64E-03	5.05E-05	0.00E+00	6.22E-04	1.63E-05	0.00E+00
394	457959.5	3768273	0.005566	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.32E-04	1.66E-05	0.00E+00
395	457955.9	3768282	0.005636	2.89E-04	0.00E+00	5.64E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.39E-04	1.68E-05	0.00E+00
396	457952.3	3768291	0.005686	2.91E-04	0.00E+00	5.69E-03	2.91E-04	0.00E+00	1.70E-03	5.24E-05	0.00E+00	6.45E-04	1.69E-05	0.00E+00
397	457948.7	3768300	0.005715	2.93E-04	0.00E+00	5.72E-03	2.93E-04	0.00E+00	1.71E-03	5.27E-05	0.00E+00	6.48E-04	1.70E-05	0.00E+00
398	457945.1	3768309	0.005725	2.93E-04	0.00E+00	5.72E-03	2.93E-04	0.00E+00	1.71E-03	5.28E-05	0.00E+00	6.49E-04	1.70E-05	0.00E+00
399	457941.5	3768318	0.005714	2.93E-04	0.00E+00	5.71E-03	2.93E-04	0.00E+00	1.71E-03	5.27E-05	0.00E+00	6.48E-04	1.70E-05	0.00E+00
400	457937.9	3768327	0.005686	2.91E-04	0.00E+00	5.69E-03	2.91E-04	0.00E+00	1.70E-03	5.24E-05	0.00E+00	6.45E-04	1.69E-05	0.00E+00
401	457934.3	3768336	0.005636	2.89E-04	0.00E+00	5.64E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.39E-04	1.68E-05	0.00E+00
402	457930.6	3768345	0.005566	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.32E-04	1.66E-05	0.00E+00
403	457927	3768354	0.005486	2.81E-04	0.00E+00	5.49E-03	2.81E-04	0.00E+00	1.64E-03	5.06E-05	0.00E+00	6.22E-04	1.63E-05	0.00E+00
404	457923.4	3768363	0.00539	2.76E-04	0.00E+00	5.39E-03	2.76E-04	0.00E+00	1.61E-03	4.97E-05	0.00E+00	6.12E-04	1.60E-05	0.00E+00
405	457919.8	3768372	0.005279	2.71E-04	0.00E+00	5.28E-03	2.71E-04	0.00E+00	1.58E-03	4.87E-05	0.00E+00	5.99E-04	1.57E-05	0.00E+00
406	457916.2	3768381	0.005153	2.64E-04	0.00E+00	5.15E-03	2.64E-04	0.00E+00	1.54E-03	4.75E-05	0.00E+00	5.85E-04	1.53E-05	0.00E+00
407	457912.6	3768390	0.005015	2.57E-04	0.00E+00	5.01E-03	2.57E-04	0.00E+00	1.50E-03	4.62E-05	0.00E+00	5.69E-04	1.49E-05	0.00E+00
408	457827.1	3768455	0.003788	1.94E-04	0.00E+00	3.79E-03	1.94E-04	0.00E+00	1.13E-03	3.49E-05	0.00E+00	4.30E-04	1.13E-05	0.00E+00
409	457818.2	3768459	0.003683	1.89E-04	0.00E+00	3.68E-03	1.89E-04	0.00E+00	1.10E-03	3.40E-05	0.00E+00	4.18E-04	1.10E-05	0.00E+00
410	457809.3	3768462	0.003574	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
411	457800.4	3768466	0.003462	1.77E-04	0.00E+00	3.46E-03	1.77E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
412	457791.5	3768470	0.003347	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.96E-06	0.00E+00
413	457782.7	3768474	0.00323	1.66E-04	0.00E+00	3.23E-03	1.66E-04	0.00E+00	9.67E-04	2.98E-05	0.00E+00	3.66E-04	9.61E-06	0.00E+00
414	457773.8	3768477	0.003116	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.33E-04	2.87E-05	0.00E+00	3.53E-04	9.27E-06	0.00E+00
415	457764.9	3768481	0.003001	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.99E-04	2.77E-05	0.00E+00	3.40E-04	8.93E-06	0.00E+00
416	457756	3768485	0.002885	1.48E-04	0.00E+00	2.88E-03	1.48E-04	0.00E+00	8.64E-04	2.66E-05	0.00E+00	3.27E-04	8.58E-06	0.00E+00
417	457747.1	3768488	0.002768	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.29E-04	2.55E-05	0.00E+00	3.14E-04	8.24E-06	0.00E+00
418	457738.2	3768492	0.002657	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.96E-04	2.45E-05	0.00E+00	3.01E-04	7.91E-06	0.00E+00
419	457977.5	3768229	0.004965	2.55E-04	0.00E+00	4.97E-03	2.55E-04	0.00E+00	1.49E-03	4.58E-05	0.00E+00	5.63E-04	1.48E-05	0.00E+00
420	457977.4	3768219	0.004881	2.50E-04	0.00E+00	4.88E-03	2.50E-04	0.00E+00	1.46E-03	4.50E-05	0.00E+00	5.54E-04	1.45E-05	0.00E+00
421	457977.3	3768210	0.004783	2.45E-04	0.00E+00	4.78E-03	2.45E-04	0.00E+00	1.43E-03	4.41E-05	0.00E+00	5.43E-04	1.42E-05	0.00E+00
422	457977.2	3768200	0.004673	2.40E-04	0.00E+00	4.67E-03	2.40E-04	0.00E+00	1.40E-03	4.31E-05	0.00E+00	5.30E-04	1.39E-05	0.00E+00
423	457977.1	3768190	0.004494	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.35E-03	4.14E-05	0.00E+00	5.10E-04	1.34E-05	0.00E+00
424	457977	3768181	0.004383	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
425	457976.9	3768171	0.004261	2.18E-04	0.00E+00	4.26E-03	2.18E-04	0.00E+00	1.28E-03	3.93E-05	0.00E+00	4.83E-04	1.27E-05	0.00E+00
426	457976.7	3768161	0.00413	2.12E-04	0.00E+00	4.13E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
427	457976.6	3768152	0.003992	2.05E-04	0.00E+00	3.99E-03	2.05E-04	0.00E+00	1.20E-03	3.68E-05	0.00E+00	4.53E-04	1.19E-05	0.00E+00
428	457976.5	3768142	0.003848	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.14E-05	0.00E+00
429	457976.4	3768132	0.003699	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.20E-04	1.10E-05	0.00E+00
430	457976.3	3768123	0.003548	1.82E-04	0.00E+00	3.55E-03	1.82E-04	0.00E+00	1.06E-03	3.27E-05	0.00E+00	4.03E-04	1.06E-05	0.00E+00
431	457976.2	3768113	0.003395	1.74E-04	0.00E+00	3.40E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
432	457976.1	3768104	0.003242	1.66E-04	0.00E+00	3.24E-03	1.66E-04	0.00E+00	9.71E-04	2.99E-05	0.00E+00	3.68E-04	9.65E-06	0.00E+00
433	457976	3768094	0.003089	1.58E-04	0.00E+00	3.09E-03	1.58E-04	0.00E+00	9.25E-04	2.85E-05	0.00E+00	3.50E-04	9.19E-06	0.00E+00
434	457975.9	3768084	0.002938	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.80E-04	2.71E-05	0.00E+00	3.33E-04	8.74E-06	0.00E+00
435	457975.7	3768075	0.002791	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.36E-04	2.57E-05	0.00E+00	3.17E-04	8.30E-06	0.00E+00
436	457975.6	3768065	0.002646	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.93E-04	2.44E-05	0.00E+00	3.00E-04	7.87E-06	0.00E+00
437	457975.5	3768055	0.002507	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.51E-04	2.31E-05	0.00E+00	2.84E-04	7.46E-06	0.00E+00
438	457975.4	3768046	0.002373	1.22E-04	0.00E+00	2.37E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.06E-06	0.00E+00
439	457975.3	3768036	0.002245	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.73E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
440	457975.2	3768026	0.002124	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
441	457998.9	3768237	0.004588	2.35E-04	0.00E+00	4.59E-03	2.35E-04	0.00E+00	1.37E-03	4.23E-05	0.00E+00	5.21E-04	1.37E-05	0.00E+00
442	457995.3	3768246	0.004715	2.42E-04	0.00E+00	4.72E-03	2.42E-04	0.00E+00	1.41E-03	4.35E-05	0.00E+00	5.35E-04	1.40E-05	0.00E+00
443	457991.7	3768255	0.004832	2.48E-04	0.00E+00	4.83E-03	2.48E-04	0.00E+00	1.45E-03	4.45E-05	0.00E+00	5.48E-04	1.44E-05	0.00E+00
444	457988.1	3768264	0.004936	2.53E-04	0.00E+00	4.94E-03	2.53E-04	0.00E+00	1.48E-03	4.55E-05	0.00E+00	5.60E-04	1.47E-05	0.00E+00
445	457984.5	3768273	0.005027	2.58E-04	0.00E+00	5.03E-03	2.58E-04	0.00E+00	1.51E-03	4.63E-05	0.00E+00	5.70E-04	1.50E-05	0.00E+00
446	457980.9	3768282	0.005104	2.62E-04	0.00E+00	5.10E-03	2.62E-04	0.00E+00	1.53E-03	4.70E-05	0.00E+00	5.79E-04	1.52E-05	0.00E+00
447	457977.3	3768291	0.005166	2.65E-04	0.00E+00	5.17E-03	2.65E-04	0.00E+00	1.55E-03	4.76E-05	0.00E+00	5.86E-04	1.54E-05	0.00E+00
448	457973.7	3768300	0.005214	2.67E-04	0.00E+00	5.21E-03	2.67E-04	0.00E+00	1.56E-03	4.81E-05	0.00E+00	5.92E-04	1.55E-05	0.00E+00
449	457970.1	3768309	0.005243	2.69E-04	0.00E+00	5.24E-03	2.69E-04	0.00E+00	1.57E-03	4.83E-05	0.00E+00	5.95E-04	1.56E-05	0.00E+00
450	457966.5	3768318	0.005255	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.96E-04	1.56E-05	0.00E+00
451	457962.9	3768327	0.005253	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.96E-04	1.56E-05	0.00E+00
452	457959.3	3768336	0.005235	2.68E-04	0.00E+00	5.23E-03	2.68E-04	0.00E+00	1.57E-03	4.83E-05	0.00E+00	5.94E-04	1.56E-05	0.00E+00
453	457955.6	3768345	0.005199	2.67E-04	0.00E+00	5.20E-03	2.67E-04	0.00E+00	1.56E-03	4.79E-05	0.00E+00	5.90E-04	1.55E-05	0.00E+00
454	457952	3768354	0.005145	2.64E-04	0.00E+00	5.15E-03	2.64E-04	0.00E+00	1.54E-03	4.74E-05	0.00E+00	5.84E-04	1.53E-05	0.00E+00
455	457948.4	3768362	0.005077	2.60E-04	0.00E+00	5.08E-03	2.60E-04	0.00E+00	1.52E-03	4.68E-05	0.00E+00	5.76E-04	1.51E-05	0.00E+00
456	457944.8	3768371	0.004996	2.56E-04	0.00E+00	5.00E-03	2.56E-04	0.00E+00	1.50E-03	4.61E-05	0.00E+00	5.67E-04	1.49E-05	0.00E+00
457	457941.2	3768380	0.004902	2.51E-04	0.00E+00	4.90E-03	2.51E-04	0.00E+00	1.47E-03	4.52E-05	0.00E+00	5.56E-04	1.46E-05	0.00E+00
458	457937.6	3768389	0.004796	2.46E-04	0.00E+00	4.80E-03	2.46E-04	0.00E+00	1.44E-03	4.42E-05	0.00E+00	5.44E-04	1.43E-05	0.00E+00
459	457889.3	3768454	0.00385	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
460	457880.4	3768458	0.003786	1.94E-04	0.00E+00	3.79E-03	1.94E-04	0.00E+00	1.13E-03	3.49E-05	0.00E+00	4.30E-04	1.13E-05	0.00E+00
461	457871.5	3768461	0.003716	1.90E-04	0.00E+00	3.72E-03	1.90E-04	0.00E+00	1.11E-03	3.43E-05	0.00E+00	4.22E-04	1.11E-05	0.00E+00
462	457862.6	3768465	0.003639	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
463	457853.8	3768469	0.003555	1.82E-04	0.00E+00	3.55E-03	1.82E-04	0.00E+00	1.06E-03	3.28E-05	0.00E+00	4.03E-04	1.06E-05	0.00E+00
464	457844.9	3768473	0.003467	1.78E-04	0.00E+00	3.47E-03	1.78E-04	0.00E+00	1.04E-03	3.20E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
465	457836	3768476	0.003375	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.00E-05	0.00E+00
466	457827.1	3768480	0.003279	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.82E-04	3.02E-05	0.00E+00	3.72E-04	9.76E-06	0.00E+00
467	457818.2	3768484	0.003179	1.63E-04	0.00E+00	3.18E-03	1.63E-04	0.00E+00	9.52E-04	2.93E-05	0.00E+00	3.61E-04	9.46E-06	0.00E+00
468	457809.3	3768487	0.003078	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.22E-04	2.84E-05	0.00E+00	3.49E-04	9.16E-06	0.00E+00
469	457800.4	3768491	0.002975	1.53E-04	0.00E+00	2.97E-03	1.53E-04	0.00E+00	8.91E-04	2.74E-05	0.00E+00	3.38E-04	8.85E-06	0.00E+00
470	457791.6	3768495	0.002871	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.54E-06	0.00E+00
471	457782.7	3768499	0.002766	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.28E-04	2.55E-05	0.00E+00	3.14E-04	8.23E-06	0.00E+00
472	457773.8	3768502	0.002661	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.97E-04	2.45E-05	0.00E+00	3.02E-04	7.92E-06	0.00E+00
473	457764.9	3768506	0.002557	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.66E-04	2.36E-05	0.00E+00	2.90E-04	7.61E-06	0.00E+00
474	457756	3768510	0.002454	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.35E-04	2.26E-05	0.00E+00	2.78E-04	7.30E-06	0.00E+00
475	457747.1	3768513	0.002353	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.05E-04	2.17E-05	0.00E+00	2.67E-04	7.00E-06	0.00E+00
476	457738.2	3768517	0.002255	1.16E-04	0.00E+00	2.25E-03	1.16E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
477	458002.5	3768229	0.004451	2.28E-04	0.00E+00	4.45E-03	2.28E-04	0.00E+00	1.33E-03	4.10E-05	0.00E+00	5.05E-04	1.32E-05	0.00E+00

478	458002.4	3768219	0.004369	2.24E-04	0.00E+00	4.37E-03	2.24E-04	0.00E+00	1.31E-03	4.03E-05	0.00E+00	4.96E-04	1.30E-05	0.00E+00
479	458002.3	3768209	0.004277	2.19E-04	0.00E+00	4.28E-03	2.19E-04	0.00E+00	1.28E-03	3.94E-05	0.00E+00	4.85E-04	1.27E-05	0.00E+00
480	458002.2	3768200	0.004176	2.14E-04	0.00E+00	4.18E-03	2.14E-04	0.00E+00	1.25E-03	3.85E-05	0.00E+00	4.74E-04	1.24E-05	0.00E+00
481	458002.1	3768190	0.004023	2.06E-04	0.00E+00	4.02E-03	2.06E-04	0.00E+00	1.21E-03	3.71E-05	0.00E+00	4.56E-04	1.20E-05	0.00E+00
482	458002	3768180	0.003923	2.01E-04	0.00E+00	3.92E-03	2.01E-04	0.00E+00	1.17E-03	3.62E-05	0.00E+00	4.45E-04	1.17E-05	0.00E+00
483	458001.9	3768171	0.003814	1.96E-04	0.00E+00	3.81E-03	1.96E-04	0.00E+00	1.14E-03	3.52E-05	0.00E+00	4.33E-04	1.14E-05	0.00E+00
484	458001.7	3768161	0.003699	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.20E-04	1.10E-05	0.00E+00
485	458001.6	3768151	0.003579	1.83E-04	0.00E+00	3.58E-03	1.83E-04	0.00E+00	1.07E-03	3.30E-05	0.00E+00	4.06E-04	1.06E-05	0.00E+00
486	458001.5	3768142	0.003453	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
487	458001.4	3768132	0.003324	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.96E-04	3.06E-05	0.00E+00	3.77E-04	9.89E-06	0.00E+00
488	458001.3	3768122	0.003193	1.64E-04	0.00E+00	3.19E-03	1.64E-04	0.00E+00	9.56E-04	2.94E-05	0.00E+00	3.62E-04	9.50E-06	0.00E+00
489	458001.2	3768113	0.003061	1.57E-04	0.00E+00	3.06E-03	1.57E-04	0.00E+00	9.17E-04	2.82E-05	0.00E+00	3.47E-04	9.11E-06	0.00E+00
490	458001.1	3768103	0.002929	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.77E-04	2.70E-05	0.00E+00	3.32E-04	8.72E-06	0.00E+00
491	458001	3768094	0.002799	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.18E-04	8.33E-06	0.00E+00
492	458000.8	3768084	0.002671	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	8.00E-04	2.46E-05	0.00E+00	3.03E-04	7.95E-06	0.00E+00
493	458000.7	3768074	0.002544	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.62E-04	2.35E-05	0.00E+00	2.89E-04	7.57E-06	0.00E+00
494	458000.6	3768065	0.002419	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.25E-04	2.23E-05	0.00E+00	2.74E-04	7.20E-06	0.00E+00
495	458000.5	3768055	0.002299	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.88E-04	2.12E-05	0.00E+00	2.61E-04	6.84E-06	0.00E+00
496	458000.4	3768045	0.002183	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.49E-06	0.00E+00
497	458000.3	3768036	0.002071	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
498	458000.2	3768026	0.001965	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.88E-04	1.81E-05	0.00E+00	2.23E-04	5.85E-06	0.00E+00
499	458023.9	3768237	0.004136	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
500	458020.3	3768246	0.004254	2.18E-04	0.00E+00	4.25E-03	2.18E-04	0.00E+00	1.27E-03	3.92E-05	0.00E+00	4.83E-04	1.27E-05	0.00E+00
501	458016.7	3768255	0.004364	2.24E-04	0.00E+00	4.36E-03	2.24E-04	0.00E+00	1.31E-03	4.02E-05	0.00E+00	4.95E-04	1.30E-05	0.00E+00
502	458013.1	3768264	0.004467	2.29E-04	0.00E+00	4.47E-03	2.29E-04	0.00E+00	1.34E-03	4.12E-05	0.00E+00	5.07E-04	1.33E-05	0.00E+00
503	458009.5	3768273	0.00456	2.34E-04	0.00E+00	4.56E-03	2.34E-04	0.00E+00	1.37E-03	4.20E-05	0.00E+00	5.17E-04	1.36E-05	0.00E+00
504	458005.9	3768282	0.004641	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.28E-05	0.00E+00	5.26E-04	1.38E-05	0.00E+00
505	458002.3	3768291	0.004709	2.41E-04	0.00E+00	4.71E-03	2.41E-04	0.00E+00	1.41E-03	4.34E-05	0.00E+00	5.34E-04	1.40E-05	0.00E+00
506	457998.7	3768300	0.004765	2.44E-04	0.00E+00	4.77E-03	2.44E-04	0.00E+00	1.43E-03	4.39E-05	0.00E+00	5.41E-04	1.42E-05	0.00E+00
507	457995.1	3768309	0.004809	2.47E-04	0.00E+00	4.81E-03	2.47E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.46E-04	1.43E-05	0.00E+00
508	457991.5	3768318	0.00484	2.48E-04	0.00E+00	4.84E-03	2.48E-04	0.00E+00	1.45E-03	4.46E-05	0.00E+00	5.49E-04	1.44E-05	0.00E+00
509	457987.9	3768326	0.004852	2.49E-04	0.00E+00	4.85E-03	2.49E-04	0.00E+00	1.45E-03	4.47E-05	0.00E+00	5.51E-04	1.44E-05	0.00E+00
510	457984.2	3768335	0.004851	2.49E-04	0.00E+00	4.85E-03	2.49E-04	0.00E+00	1.45E-03	4.47E-05	0.00E+00	5.50E-04	1.44E-05	0.00E+00
511	457980.6	3768344	0.004836	2.48E-04	0.00E+00	4.84E-03	2.48E-04	0.00E+00	1.45E-03	4.46E-05	0.00E+00	5.49E-04	1.44E-05	0.00E+00
512	457977	3768353	0.004807	2.46E-04	0.00E+00	4.81E-03	2.46E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.45E-04	1.43E-05	0.00E+00
513	457973.4	3768362	0.004765	2.44E-04	0.00E+00	4.76E-03	2.44E-04	0.00E+00	1.43E-03	4.39E-05	0.00E+00	5.41E-04	1.42E-05	0.00E+00
514	457969.8	3768371	0.004709	2.41E-04	0.00E+00	4.71E-03	2.41E-04	0.00E+00	1.41E-03	4.34E-05	0.00E+00	5.34E-04	1.40E-05	0.00E+00
515	457966.2	3768380	0.004642	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.28E-05	0.00E+00	5.27E-04	1.38E-05	0.00E+00
516	457962.6	3768389	0.004564	2.34E-04	0.00E+00	4.56E-03	2.34E-04	0.00E+00	1.37E-03	4.21E-05	0.00E+00	5.18E-04	1.36E-05	0.00E+00
517	457924.9	3768464	0.003626	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.11E-04	1.08E-05	0.00E+00
518	457916	3768468	0.003579	1.83E-04	0.00E+00	3.58E-03	1.83E-04	0.00E+00	1.07E-03	3.30E-05	0.00E+00	4.06E-04	1.06E-05	0.00E+00
519	457907.1	3768472	0.003524	1.81E-04	0.00E+00	3.52E-03	1.81E-04	0.00E+00	1.06E-03	3.25E-05	0.00E+00	4.00E-04	1.05E-05	0.00E+00
520	457898.2	3768475	0.003465	1.78E-04	0.00E+00	3.46E-03	1.78E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
521	457889.3	3768479	0.003401	1.74E-04	0.00E+00	3.40E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.86E-04	1.01E-05	0.00E+00
522	457880.4	3768483	0.003332	1.71E-04	0.00E+00	3.33E-03	1.71E-04	0.00E+00	9.98E-04	3.07E-05	0.00E+00	3.78E-04	9.91E-06	0.00E+00
523	457871.5	3768486	0.003257	1.67E-04	0.00E+00	3.26E-03	1.67E-04	0.00E+00	9.75E-04	3.00E-05	0.00E+00	3.69E-04	9.69E-06	0.00E+00
524	457862.7	3768490	0.003179	1.63E-04	0.00E+00	3.18E-03	1.63E-04	0.00E+00	9.52E-04	2.93E-05	0.00E+00	3.61E-04	9.46E-06	0.00E+00
525	457853.8	3768494	0.003098	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.28E-04	2.86E-05	0.00E+00	3.52E-04	9.22E-06	0.00E+00
526	457844.9	3768498	0.003016	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.03E-04	2.78E-05	0.00E+00	3.42E-04	8.98E-06	0.00E+00
527	457836	3768501	0.002929	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.77E-04	2.70E-05	0.00E+00	3.32E-04	8.72E-06	0.00E+00
528	457827.1	3768505	0.002839	1.46E-04	0.00E+00	2.84E-03	1.46E-04	0.00E+00	8.50E-04	2.62E-05	0.00E+00	3.22E-04	8.45E-06	0.00E+00
529	457818.2	3768509	0.002748	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.23E-04	2.53E-05	0.00E+00	3.12E-04	8.18E-06	0.00E+00
530	457809.3	3768512	0.002658	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.96E-04	2.45E-05	0.00E+00	3.02E-04	7.91E-06	0.00E+00
531	457800.5	3768516	0.002564	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.68E-04	2.36E-05	0.00E+00	2.91E-04	7.63E-06	0.00E+00
532	457791.6	3768520	0.002471	1.27E-04	0.00E+00	2.47E-03	1.27E-04	0.00E+00	7.40E-04	2.28E-05	0.00E+00	2.80E-04	7.35E-06	0.00E+00
533	457782.7	3768524	0.002378	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.12E-04	2.19E-05	0.00E+00	2.70E-04	7.08E-06	0.00E+00
534	457773.8	3768527	0.002285	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.84E-04	2.11E-05	0.00E+00	2.59E-04	6.80E-06	0.00E+00
535	457764.9	3768531	0.002192	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.57E-04	2.02E-05	0.00E+00	2.49E-04	6.52E-06	0.00E+00
536	457756	3768535	0.002102	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.30E-04	1.94E-05	0.00E+00	2.39E-04	6.26E-06	0.00E+00
537	457747.1	3768538	0.002015	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
538	457738.2	3768542	0.001929	9.89E-05	0.00E+00	1.93E-03	9.89E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.74E-06	0.00E+00
539	458027.5	3768228	0.004011	2.06E-04	0.00E+00	4.01E-03	2.06E-04	0.00E+00	1.20E-03	3.70E-05	0.00E+00	4.55E-04	1.19E-05	0.00E+00
540	458027.4	3768219	0.003933	2.02E-04	0.00E+00	3.93E-03	2.02E-04	0.00E+00	1.18E-03	3.63E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
541	458027.3	3768209	0.003848	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
542	458027.2	3768199	0.003755	1.93E-04	0.00E+00	3.76E-03	1.93E-04	0.00E+00	1.12E-03	3.46E-05	0.00E+00	4.26E-04	1.12E-05	0.00E+00
543	458027.1	3768190	0.003656	1.87E-04	0.00E+00	3.66E-03	1.87E-04	0.00E+00	1.09E-03	3.37E-05	0.00E+00	4.15E-04	1.09E-05	0.00E+00
544	458027	3768180	0.00355	1.82E-04	0.00E+00	3.55E-03	1.82E-04	0.00E+00	1.06E-03	3.27E-05	0.00E+00	4.03E-04	1.06E-05	0.00E+00
545	458026.9	3768170	0.003439	1.76E-04	0.00E+00	3.44E-03	1.76E-04	0.00E+00	1.03E-03	3.17E-05	0.00E+00	3.90E-04	1.02E-05	0.00E+00
546	458026.7	3768161	0.003336	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	9.99E-04	3.08E-05	0.00E+00	3.78E-04	9.93E-06	0.00E+00
547	458026.6	3768151	0.00323	1.66E-04	0.00E+00	3.23E-03	1.66E-04	0.00E+00	9.67E-04	2.98E-05	0.00E+00	3.66E-04	9.61E-06	0.00E+00
548	458026.5	3768141	0.00312	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.35E-04	2.88E-05	0.00E+00	3.54E-04	9.29E-06	0.00E+00
549	458026.4	3768132	0.003008	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.01E-04	2.77E-05	0.00E+00	3.41E-04	8.95E-06	0.00E+00
550	458026.3	3768122	0.002894	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
551	458026.2	3768113	0.00278	1.43E-04	0.00E+00	2.78E-03	1.43E-04	0.00E+00	8.33E-04	2.56E-05	0.00E+00	3.15E-04	8.27E-06	0.00E+00
552	458026.1	3768103	0.002665	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	7.98E-04	2.46E-05	0.00E+00	3.02E-04	7.93E-06	0.00E+00
553	458026	3768093	0.002552	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.64E-04	2.35E-05	0.00E+00	2.90E-04	7.60E-06	0.00E+00
554	458025.8	3768084	0.002441	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.31E-04	2.25E-05	0.00E+00	2.77E-04	7.26E-06	0.00E+00
555	458025.7	3768074	0.002331	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.94E-06	0.00E+00
556	458025.6	3768064	0.002223	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.66E-04	2.05E-05	0.00E+00	2.52E-04	6.61E-06	0.00E+00
557	458025.5	3768055	0.002118	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.34E-04	1.95E-05	0.00E+00	2.40E-04	6.30E-06	0.00E+00
558	458025.4	3768045	0.002016	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
559	458025.3	3768035	0.001919	9.84E-05	0.00E+00	1.92E-03	9.84E-05	0.00E+00	5.75E-04	1.77E-05	0.00E+00	2.18E-04	5.71E-06	0.00E+00
560	458025.2	3768026	0.001825	9.36E-05	0.00E+00	1.82E-03	9.36E-05	0.00E+00	5.47E-04	1.68E-05	0.00E+00	2.07E-04	5.43E-06	0.00E+00
561	458048.9	3768237	0.003747	1.92E-04	0.00E+00	3.75E-03	1.92E-04	0.00E+00	1.12E-03	3.45E-05	0.00E+00	4.25E-04	1.11E-05	0.00E+00
562	458045.3	3768246	0.003856	1.98E-04	0.00E+00	3.86E-03	1.98E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
563	458041.7	3768255	0.003959	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.49E-04	1.18E-05	0.00E+00
564	458038.1	3768264	0.004056	2.08E-04	0.00E+00	4.06E-03	2.08E-04	0.00E+00	1.21E-03	3.74E-05	0.00E+00	4.60E-04	1.21E-05	0.00E+00
565	458034.5	3768273	0.004147	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.82E-05	0.00E+00	4.70E-04	1.23E-05	0.00E+00
566	458030.9	3768282	0.00423	2.17E-04	0.00E+00	4.23E-03	2.17E-04	0.00E+00	1.27E-03	3.90E-05	0.00E+00	4.80E-04	1.26E-05	0.00E+00
567	458027.3	3768290	0.004302	2.21E-04	0.00E+00	4.30E-03	2.21E-04	0.00E+00	1.29E-03	3.97E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
568	458023.7	3768299	0.004362	2.24E-04	0.00E+00	4.36E-03	2.24E-04	0.00E+00	1.31E-03	4.02E-05	0.00E+00	4.95E-04	1.30E-05	0.00E+00
569	458020.1	3768308	0.004412	2.26E-04	0.00E+00	4.41E-03	2.26E-04	0.00E+00	1.32E-03	4.07E-05	0.00E+00	5.01E-04	1.31E-05	0.00E+00
570	458016.5	3768317	0.00445	2.28E-04	0.00E+00	4.45E-03	2.28E-04	0.00E+00	1.33E-03	4.10E-05	0.00E+00	5.05E-04	1.32E-05	0.00E+00
571	458012.9	3768326	0.004475	2.29E-04	0.00E+00	4.48E-03	2.29E-04	0.00E+00	1.34E-03	4.13E-05	0.00E+00	5.08E-04	1.33E-05	0.00E+00
572	458009.2	3768335	0.004489	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.34E-03	4.14E-05	0.00E+00	5.09E-04	1.34E-05	0.00E+00
573	458005.6	3768344	0.004491	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.35E-03	4.14E-05	0.00E+00	5.09E-04	1.34E-05	0.00E+00

574	458002	3768353	0.00448	2.30E-04	0.00E+00	4.48E-03	2.30E-04	0.00E+00	1.34E-03	4.13E-05	0.00E+00	5.08E-04	1.33E-05	0.00E+00
575	457998.4	3768362	0.004458	2.29E-04	0.00E+00	4.46E-03	2.29E-04	0.00E+00	1.34E-03	4.11E-05	0.00E+00	5.06E-04	1.33E-05	0.00E+00
576	457994.8	3768371	0.004424	2.27E-04	0.00E+00	4.42E-03	2.27E-04	0.00E+00	1.33E-03	4.08E-05	0.00E+00	5.02E-04	1.32E-05	0.00E+00
577	457991.2	3768380	0.004381	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
578	457987.6	3768389	0.004329	2.22E-04	0.00E+00	4.33E-03	2.22E-04	0.00E+00	1.30E-03	3.99E-05	0.00E+00	4.91E-04	1.29E-05	0.00E+00
579	457958.8	3768460	0.003603	1.85E-04	0.00E+00	3.60E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
580	457955.1	3768469	0.00349	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.96E-04	1.04E-05	0.00E+00
581	457942.6	3768482	0.003336	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	9.99E-04	3.08E-05	0.00E+00	3.78E-04	9.93E-06	0.00E+00
582	457933.8	3768485	0.003293	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.86E-04	3.04E-05	0.00E+00	3.74E-04	9.80E-06	0.00E+00
583	457924.9	3768489	0.003244	1.66E-04	0.00E+00	3.24E-03	1.66E-04	0.00E+00	9.71E-04	2.99E-05	0.00E+00	3.68E-04	9.65E-06	0.00E+00
584	457916	3768493	0.00319	1.64E-04	0.00E+00	3.19E-03	1.64E-04	0.00E+00	9.55E-04	2.94E-05	0.00E+00	3.62E-04	9.49E-06	0.00E+00
585	457907.1	3768497	0.003131	1.60E-04	0.00E+00	3.13E-03	1.60E-04	0.00E+00	9.38E-04	2.89E-05	0.00E+00	3.55E-04	9.32E-06	0.00E+00
586	457898.2	3768500	0.003067	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.19E-04	2.83E-05	0.00E+00	3.48E-04	9.13E-06	0.00E+00
587	457889.3	3768504	0.003	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.98E-04	2.77E-05	0.00E+00	3.40E-04	8.93E-06	0.00E+00
588	457880.4	3768508	0.002929	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.77E-04	2.70E-05	0.00E+00	3.32E-04	8.71E-06	0.00E+00
589	457871.6	3768511	0.002854	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.55E-04	2.63E-05	0.00E+00	3.24E-04	8.49E-06	0.00E+00
590	457862.7	3768515	0.002778	1.42E-04	0.00E+00	2.78E-03	1.42E-04	0.00E+00	8.32E-04	2.56E-05	0.00E+00	3.15E-04	8.27E-06	0.00E+00
591	457853.8	3768519	0.0027	1.38E-04	0.00E+00	2.70E-03	1.38E-04	0.00E+00	8.09E-04	2.49E-05	0.00E+00	3.06E-04	8.03E-06	0.00E+00
592	457844.9	3768523	0.002618	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.84E-04	2.41E-05	0.00E+00	2.97E-04	7.79E-06	0.00E+00
593	457836	3768526	0.002536	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.59E-04	2.34E-05	0.00E+00	2.88E-04	7.55E-06	0.00E+00
594	457827.1	3768530	0.002457	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.36E-04	2.26E-05	0.00E+00	2.79E-04	7.31E-06	0.00E+00
595	457818.2	3768534	0.002376	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.12E-04	2.19E-05	0.00E+00	2.70E-04	7.07E-06	0.00E+00
596	457809.4	3768537	0.002294	1.18E-04	0.00E+00	2.29E-03	1.18E-04	0.00E+00	6.87E-04	2.11E-05	0.00E+00	2.60E-04	6.83E-06	0.00E+00
597	457800.5	3768541	0.002208	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.04E-05	0.00E+00	2.50E-04	6.57E-06	0.00E+00
598	457791.6	3768545	0.002122	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.35E-04	1.96E-05	0.00E+00	2.41E-04	6.31E-06	0.00E+00
599	457782.7	3768549	0.002037	1.04E-04	0.00E+00	2.04E-03	1.04E-04	0.00E+00	6.10E-04	1.88E-05	0.00E+00	2.31E-04	6.06E-06	0.00E+00
600	457773.8	3768552	0.001956	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.86E-04	1.80E-05	0.00E+00	2.22E-04	5.82E-06	0.00E+00
601	457764.9	3768556	0.00188	9.64E-05	0.00E+00	1.88E-03	9.64E-05	0.00E+00	5.63E-04	1.73E-05	0.00E+00	2.13E-04	5.60E-06	0.00E+00
602	457756	3768560	0.001807	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
603	457747.1	3768563	0.001732	8.88E-05	0.00E+00	1.73E-03	8.88E-05	0.00E+00	5.19E-04	1.60E-05	0.00E+00	1.96E-04	5.15E-06	0.00E+00
604	457738.3	3768567	0.001658	8.50E-05	0.00E+00	1.66E-03	8.50E-05	0.00E+00	4.96E-04	1.53E-05	0.00E+00	1.88E-04	4.93E-06	0.00E+00
605	458052.5	3768228	0.003633	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
606	458052.4	3768218	0.00356	1.83E-04	0.00E+00	3.56E-03	1.83E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
607	458052.3	3768209	0.00348	1.78E-04	0.00E+00	3.48E-03	1.78E-04	0.00E+00	1.04E-03	3.21E-05	0.00E+00	3.95E-04	1.04E-05	0.00E+00
608	458052.2	3768199	0.003394	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
609	458052.1	3768189	0.003303	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.89E-04	3.05E-05	0.00E+00	3.75E-04	9.83E-06	0.00E+00
610	458052	3768180	0.003209	1.65E-04	0.00E+00	3.21E-03	1.65E-04	0.00E+00	9.61E-04	2.96E-05	0.00E+00	3.64E-04	9.55E-06	0.00E+00
611	458051.9	3768170	0.003112	1.60E-04	0.00E+00	3.11E-03	1.60E-04	0.00E+00	9.32E-04	2.87E-05	0.00E+00	3.53E-04	9.26E-06	0.00E+00
612	458051.7	3768160	0.00301	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.02E-04	2.77E-05	0.00E+00	3.42E-04	8.96E-06	0.00E+00
613	458051.6	3768151	0.002905	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.70E-04	2.68E-05	0.00E+00	3.30E-04	8.65E-06	0.00E+00
614	458051.5	3768141	0.002798	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.17E-04	8.33E-06	0.00E+00
615	458051.4	3768132	0.002738	1.40E-04	0.00E+00	2.74E-03	1.40E-04	0.00E+00	8.20E-04	2.52E-05	0.00E+00	3.11E-04	8.15E-06	0.00E+00
616	458051.3	3768122	0.002639	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.90E-04	2.43E-05	0.00E+00	2.99E-04	7.85E-06	0.00E+00
617	458051.2	3768112	0.002538	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.60E-04	2.34E-05	0.00E+00	2.88E-04	7.55E-06	0.00E+00
618	458051.1	3768103	0.002438	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.30E-04	2.25E-05	0.00E+00	2.77E-04	7.25E-06	0.00E+00
619	458051	3768093	0.002338	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.00E-04	2.16E-05	0.00E+00	2.65E-04	6.96E-06	0.00E+00
620	458050.8	3768083	0.00224	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.71E-04	2.06E-05	0.00E+00	2.54E-04	6.66E-06	0.00E+00
621	458050.7	3768074	0.002143	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
622	458050.6	3768064	0.00205	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.14E-04	1.89E-05	0.00E+00	2.33E-04	6.10E-06	0.00E+00
623	458050.5	3768054	0.001958	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
624	458050.4	3768045	0.00187	9.59E-05	0.00E+00	1.87E-03	9.59E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
625	458050.3	3768035	0.001784	9.14E-05	0.00E+00	1.78E-03	9.14E-05	0.00E+00	5.34E-04	1.64E-05	0.00E+00	2.02E-04	5.31E-06	0.00E+00
626	458050.2	3768026	0.001701	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
627	458073.9	3768237	0.00341	1.75E-04	0.00E+00	3.41E-03	1.75E-04	0.00E+00	1.02E-03	3.14E-05	0.00E+00	3.87E-04	1.01E-05	0.00E+00
628	458070.3	3768245	0.003511	1.80E-04	0.00E+00	3.51E-03	1.80E-04	0.00E+00	1.05E-03	3.24E-05	0.00E+00	3.98E-04	1.04E-05	0.00E+00
629	458066.7	3768254	0.003607	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
630	458063.1	3768263	0.003698	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.20E-04	1.10E-05	0.00E+00
631	458059.5	3768272	0.003784	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.49E-05	0.00E+00	4.29E-04	1.13E-05	0.00E+00
632	458055.9	3768281	0.003863	1.98E-04	0.00E+00	3.86E-03	1.98E-04	0.00E+00	1.16E-03	3.56E-05	0.00E+00	4.38E-04	1.15E-05	0.00E+00
633	458052.3	3768290	0.003935	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.63E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
634	458048.7	3768299	0.003998	2.05E-04	0.00E+00	4.00E-03	2.05E-04	0.00E+00	1.20E-03	3.68E-05	0.00E+00	4.54E-04	1.19E-05	0.00E+00
635	458045.1	3768308	0.004051	2.08E-04	0.00E+00	4.05E-03	2.08E-04	0.00E+00	1.21E-03	3.73E-05	0.00E+00	4.60E-04	1.21E-05	0.00E+00
636	458041.5	3768317	0.004096	2.10E-04	0.00E+00	4.10E-03	2.10E-04	0.00E+00	1.23E-03	3.78E-05	0.00E+00	4.65E-04	1.22E-05	0.00E+00
637	458037.9	3768326	0.00413	2.12E-04	0.00E+00	4.13E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
638	458034.2	3768335	0.004154	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.83E-05	0.00E+00	4.71E-04	1.24E-05	0.00E+00
639	458030.6	3768344	0.004168	2.14E-04	0.00E+00	4.17E-03	2.14E-04	0.00E+00	1.25E-03	3.84E-05	0.00E+00	4.73E-04	1.24E-05	0.00E+00
640	458027	3768353	0.004172	2.14E-04	0.00E+00	4.17E-03	2.14E-04	0.00E+00	1.25E-03	3.85E-05	0.00E+00	4.73E-04	1.24E-05	0.00E+00
641	458023.4	3768362	0.004166	2.14E-04	0.00E+00	4.17E-03	2.14E-04	0.00E+00	1.25E-03	3.84E-05	0.00E+00	4.73E-04	1.24E-05	0.00E+00
642	458019.8	3768371	0.004148	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.82E-05	0.00E+00	4.71E-04	1.23E-05	0.00E+00
643	458016.2	3768379	0.004122	2.11E-04	0.00E+00	4.12E-03	2.11E-04	0.00E+00	1.23E-03	3.80E-05	0.00E+00	4.68E-04	1.23E-05	0.00E+00
644	458012.6	3768388	0.004089	2.10E-04	0.00E+00	4.09E-03	2.10E-04	0.00E+00	1.22E-03	3.77E-05	0.00E+00	4.64E-04	1.22E-05	0.00E+00
645	457983.7	3768460	0.003519	1.80E-04	0.00E+00	3.52E-03	1.80E-04	0.00E+00	1.05E-03	3.24E-05	0.00E+00	3.99E-04	1.05E-05	0.00E+00
646	457980.1	3768469	0.003422	1.75E-04	0.00E+00	3.42E-03	1.75E-04	0.00E+00	1.03E-03	3.15E-05	0.00E+00	3.88E-04	1.02E-05	0.00E+00
647	457976.5	3768478	0.003322	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.95E-04	3.06E-05	0.00E+00	3.77E-04	9.89E-06	0.00E+00
648	457972.9	3768487	0.00322	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.64E-04	2.97E-05	0.00E+00	3.65E-04	9.58E-06	0.00E+00
649	457960.4	3768499	0.003081	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.23E-04	2.84E-05	0.00E+00	3.49E-04	9.17E-06	0.00E+00
650	457951.5	3768503	0.00304	1.56E-04	0.00E+00	3.04E-03	1.56E-04	0.00E+00	9.11E-04	2.80E-05	0.00E+00	3.45E-04	9.05E-06	0.00E+00
651	457942.7	3768507	0.002996	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.97E-04	2.76E-05	0.00E+00	3.40E-04	8.91E-06	0.00E+00
652	457933.8	3768510	0.002947	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.83E-04	2.72E-05	0.00E+00	3.34E-04	8.77E-06	0.00E+00
653	457924.9	3768514	0.002894	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
654	457916	3768518	0.002837	1.45E-04	0.00E+00	2.84E-03	1.45E-04	0.00E+00	8.50E-04	2.62E-05	0.00E+00	3.22E-04	8.44E-06	0.00E+00
655	457907.1	3768522	0.002776	1.42E-04	0.00E+00	2.78E-03	1.42E-04	0.00E+00	8.32E-04	2.56E-05	0.00E+00	3.15E-04	8.26E-06	0.00E+00
656	457898.2	3768525	0.002713	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.12E-04	2.50E-05	0.00E+00	3.08E-04	8.07E-06	0.00E+00
657	457889.3	3768529	0.002645	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.92E-04	2.44E-05	0.00E+00	3.00E-04	7.87E-06	0.00E+00
658	457880.5	3768533	0.002576	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.71E-04	2.37E-05	0.00E+00	2.92E-04	7.66E-06	0.00E+00
659	457871.6	3768536	0.002505	1.28E-04	0.00E+00	2.51E-03	1.28E-04	0.00E+00	7.50E-04	2.31E-05	0.00E+00	2.84E-04	7.45E-06	0.00E+00
660	457862.7	3768540	0.002433	1.25E-04	0.00E+00	2.43E-03	1.25E-04	0.00E+00	7.29E-04	2.24E-05	0.00E+00	2.76E-04	7.24E-06	0.00E+00
661	457853.8	3768544	0.002358	1.21E-04	0.00E+00	2.36E-03	1.21E-04	0.00E+00	7.06E-04	2.17E-05	0.00E+00	2.68E-04	7.02E-06	0.00E+00
662	457844.9	3768548	0.002283	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.84E-04	2.10E-05	0.00E+00	2.59E-04	6.79E-06	0.00E+00
663	457836	3768551	0.002208	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.04E-05	0.00E+00	2.50E-04	6.57E-06	0.00E+00
664	457827.1	3768555	0.002132	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.39E-04	1.97E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
665	457818.2	3768559	0.002056	1.05E-04	0.00E+00	2.06E-03	1.05E-04	0.00E+00	6.16E-04	1.90E-05	0.00E+00	2.33E-04	6.12E-06	0.00E+00
666	457809.4	3768562	0.001981	1.02E-04	0.00E+00	1.98E-03	1.02E-04	0.00E+00	5.93E-04	1.83E-05	0.00E+00	2.25E-04	5.89E-06	0.00E+00
667	457800.5	3768566	0.001906	9.77E-05	0.00E+00	1.91E-03	9.77E-05	0.00E+00	5.71E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
668	457791.6	3768570	0.001832	9.39E-05	0.00E+00	1.83E-03	9.39E-05	0.00E+00	5.49E-04	1.69E-05	0.00E+00	2.08E-04	5.45E-06	0.00E+00
669	457782.7	3768574	0.00176	9.02E-05	0.00E+00	1.76E-03	9.02E-05	0.00E+00	5.27E-04	1.62E-05	0.00E+00	2.00E-04	5.24E-06	0.00E+00

670	457773.8	3768577	0.00169	8.66E-05	0.00E+00	1.69E-03	8.66E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
671	457764.9	3768581	0.001621	8.31E-05	0.00E+00	1.62E-03	8.31E-05	0.00E+00	4.85E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
672	457756	3768585	0.001552	7.96E-05	0.00E+00	1.55E-03	7.96E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
673	457747.2	3768588	0.001487	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
674	457738.3	3768592	0.001428	7.32E-05	0.00E+00	1.43E-03	7.32E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
675	458077.5	3768228	0.003306	1.69E-04	0.00E+00	3.31E-03	1.69E-04	0.00E+00	9.90E-04	3.05E-05	0.00E+00	3.75E-04	9.84E-06	0.00E+00
676	458077.4	3768218	0.003238	1.66E-04	0.00E+00	3.24E-03	1.66E-04	0.00E+00	9.70E-04	2.98E-05	0.00E+00	3.67E-04	9.64E-06	0.00E+00
677	458077.3	3768208	0.003164	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.48E-04	2.92E-05	0.00E+00	3.59E-04	9.42E-06	0.00E+00
678	458077.2	3768199	0.003086	1.58E-04	0.00E+00	3.09E-03	1.58E-04	0.00E+00	9.24E-04	2.84E-05	0.00E+00	3.50E-04	9.18E-06	0.00E+00
679	458077.1	3768189	0.003003	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.99E-04	2.77E-05	0.00E+00	3.41E-04	8.94E-06	0.00E+00
680	458077	3768179	0.002916	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.74E-04	2.69E-05	0.00E+00	3.31E-04	8.68E-06	0.00E+00
681	458076.9	3768170	0.002827	1.45E-04	0.00E+00	2.83E-03	1.45E-04	0.00E+00	8.47E-04	2.61E-05	0.00E+00	3.21E-04	8.41E-06	0.00E+00
682	458076.7	3768160	0.002736	1.40E-04	0.00E+00	2.74E-03	1.40E-04	0.00E+00	8.19E-04	2.52E-05	0.00E+00	3.10E-04	8.14E-06	0.00E+00
683	458076.6	3768151	0.002645	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.92E-04	2.44E-05	0.00E+00	3.00E-04	7.87E-06	0.00E+00
684	458076.5	3768141	0.002554	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.65E-04	2.35E-05	0.00E+00	2.90E-04	7.60E-06	0.00E+00
685	458076.4	3768131	0.002506	1.28E-04	0.00E+00	2.51E-03	1.28E-04	0.00E+00	7.50E-04	2.31E-05	0.00E+00	2.84E-04	7.46E-06	0.00E+00
686	458076.3	3768122	0.002418	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.24E-04	2.23E-05	0.00E+00	2.74E-04	7.19E-06	0.00E+00
687	458076.2	3768112	0.002329	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.93E-06	0.00E+00
688	458076.1	3768102	0.002241	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.71E-04	2.07E-05	0.00E+00	2.54E-04	6.67E-06	0.00E+00
689	458076	3768093	0.002153	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.45E-04	1.99E-05	0.00E+00	2.44E-04	6.41E-06	0.00E+00
690	458075.8	3768083	0.002067	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.19E-04	1.91E-05	0.00E+00	2.34E-04	6.15E-06	0.00E+00
691	458075.7	3768073	0.001982	1.02E-04	0.00E+00	1.98E-03	1.02E-04	0.00E+00	5.94E-04	1.83E-05	0.00E+00	2.25E-04	5.90E-06	0.00E+00
692	458075.6	3768064	0.001899	9.74E-05	0.00E+00	1.90E-03	9.74E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
693	458075.5	3768054	0.001819	9.32E-05	0.00E+00	1.82E-03	9.32E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
694	458075.4	3768045	0.00174	8.92E-05	0.00E+00	1.74E-03	8.92E-05	0.00E+00	5.21E-04	1.60E-05	0.00E+00	1.97E-04	5.18E-06	0.00E+00
695	458075.3	3768035	0.001664	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
696	458075.2	3768025	0.00159	8.15E-05	0.00E+00	1.59E-03	8.15E-05	0.00E+00	4.76E-04	1.47E-05	0.00E+00	1.80E-04	4.73E-06	0.00E+00
697	458098.9	3768236	0.003116	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.33E-04	2.87E-05	0.00E+00	3.54E-04	9.27E-06	0.00E+00
698	458095.3	3768245	0.003208	1.64E-04	0.00E+00	3.21E-03	1.64E-04	0.00E+00	9.61E-04	2.96E-05	0.00E+00	3.64E-04	9.55E-06	0.00E+00
699	458091.7	3768254	0.003298	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.88E-04	3.04E-05	0.00E+00	3.74E-04	9.81E-06	0.00E+00
700	458088.1	3768263	0.003384	1.73E-04	0.00E+00	3.38E-03	1.73E-04	0.00E+00	1.01E-03	3.12E-05	0.00E+00	3.84E-04	1.01E-05	0.00E+00
701	458084.5	3768272	0.003465	1.78E-04	0.00E+00	3.46E-03	1.78E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
702	458080.9	3768281	0.00354	1.81E-04	0.00E+00	3.54E-03	1.81E-04	0.00E+00	1.06E-03	3.26E-05	0.00E+00	4.02E-04	1.05E-05	0.00E+00
703	458077.3	3768290	0.003609	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
704	458073.7	3768299	0.003672	1.88E-04	0.00E+00	3.67E-03	1.88E-04	0.00E+00	1.10E-03	3.38E-05	0.00E+00	4.17E-04	1.09E-05	0.00E+00
705	458070.1	3768308	0.003727	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
706	458066.5	3768317	0.003775	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.48E-05	0.00E+00	4.28E-04	1.12E-05	0.00E+00
707	458062.9	3768326	0.003816	1.96E-04	0.00E+00	3.82E-03	1.96E-04	0.00E+00	1.14E-03	3.52E-05	0.00E+00	4.33E-04	1.14E-05	0.00E+00
708	458059.2	3768335	0.003848	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
709	458055.6	3768343	0.003871	1.98E-04	0.00E+00	3.87E-03	1.98E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.39E-04	1.15E-05	0.00E+00
710	458052	3768352	0.003886	1.99E-04	0.00E+00	3.89E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.41E-04	1.16E-05	0.00E+00
711	458048.4	3768361	0.003894	2.00E-04	0.00E+00	3.89E-03	2.00E-04	0.00E+00	1.17E-03	3.59E-05	0.00E+00	4.42E-04	1.16E-05	0.00E+00
712	458044.8	3768370	0.003892	2.00E-04	0.00E+00	3.89E-03	2.00E-04	0.00E+00	1.17E-03	3.59E-05	0.00E+00	4.42E-04	1.16E-05	0.00E+00
713	458041.2	3768379	0.00388	1.99E-04	0.00E+00	3.88E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.40E-04	1.15E-05	0.00E+00
714	458037.6	3768388	0.003859	1.98E-04	0.00E+00	3.86E-03	1.98E-04	0.00E+00	1.16E-03	3.56E-05	0.00E+00	4.38E-04	1.15E-05	0.00E+00
715	458008.7	3768460	0.003418	1.75E-04	0.00E+00	3.42E-03	1.75E-04	0.00E+00	1.02E-03	3.15E-05	0.00E+00	3.88E-04	1.02E-05	0.00E+00
716	458005.1	3768468	0.003338	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	1.00E-03	3.08E-05	0.00E+00	3.79E-04	9.93E-06	0.00E+00
717	458001.5	3768477	0.003253	1.67E-04	0.00E+00	3.25E-03	1.67E-04	0.00E+00	9.74E-04	3.00E-05	0.00E+00	3.69E-04	9.68E-06	0.00E+00
718	457997.9	3768486	0.003165	1.62E-04	0.00E+00	3.17E-03	1.62E-04	0.00E+00	9.48E-04	2.92E-05	0.00E+00	3.59E-04	9.42E-06	0.00E+00
719	457994.3	3768495	0.003074	1.58E-04	0.00E+00	3.07E-03	1.58E-04	0.00E+00	9.21E-04	2.83E-05	0.00E+00	3.49E-04	9.15E-06	0.00E+00
720	457990.7	3768504	0.00298	1.53E-04	0.00E+00	2.98E-03	1.53E-04	0.00E+00	8.93E-04	2.75E-05	0.00E+00	3.38E-04	8.87E-06	0.00E+00
721	457978.2	3768517	0.002852	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.54E-04	2.63E-05	0.00E+00	3.24E-04	8.49E-06	0.00E+00
722	457969.3	3768521	0.002815	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.43E-04	2.59E-05	0.00E+00	3.19E-04	8.38E-06	0.00E+00
723	457960.4	3768524	0.002773	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.30E-04	2.56E-05	0.00E+00	3.15E-04	8.25E-06	0.00E+00
724	457951.6	3768528	0.002728	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.17E-04	2.51E-05	0.00E+00	3.10E-04	8.12E-06	0.00E+00
725	457942.7	3768532	0.002681	1.37E-04	0.00E+00	2.68E-03	1.37E-04	0.00E+00	8.03E-04	2.47E-05	0.00E+00	3.04E-04	7.98E-06	0.00E+00
726	457933.8	3768535	0.00263	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.88E-04	2.42E-05	0.00E+00	2.98E-04	7.83E-06	0.00E+00
727	457924.9	3768539	0.002574	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.71E-04	2.37E-05	0.00E+00	2.92E-04	7.66E-06	0.00E+00
728	457916	3768543	0.002515	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.48E-06	0.00E+00
729	457907.1	3768547	0.002453	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.35E-04	2.26E-05	0.00E+00	2.78E-04	7.30E-06	0.00E+00
730	457898.2	3768550	0.002389	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.16E-04	2.20E-05	0.00E+00	2.71E-04	7.11E-06	0.00E+00
731	457889.4	3768554	0.002326	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.97E-04	2.14E-05	0.00E+00	2.64E-04	6.92E-06	0.00E+00
732	457880.5	3768558	0.002263	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.78E-04	2.09E-05	0.00E+00	2.57E-04	6.73E-06	0.00E+00
733	457871.6	3768561	0.002199	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.59E-04	2.03E-05	0.00E+00	2.49E-04	6.54E-06	0.00E+00
734	457862.7	3768565	0.002131	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.38E-04	1.96E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
735	457853.8	3768569	0.002063	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
736	457844.9	3768573	0.001996	1.02E-04	0.00E+00	2.00E-03	1.02E-04	0.00E+00	5.98E-04	1.84E-05	0.00E+00	2.26E-04	5.94E-06	0.00E+00
737	457836	3768576	0.001929	9.89E-05	0.00E+00	1.93E-03	9.89E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.74E-06	0.00E+00
738	457827.1	3768580	0.001861	9.54E-05	0.00E+00	1.86E-03	9.54E-05	0.00E+00	5.57E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
739	457818.3	3768584	0.001793	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
740	457809.4	3768587	0.001726	8.85E-05	0.00E+00	1.73E-03	8.85E-05	0.00E+00	5.17E-04	1.59E-05	0.00E+00	1.96E-04	5.14E-06	0.00E+00
741	457800.5	3768591	0.00166	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
742	457791.6	3768595	0.001595	8.18E-05	0.00E+00	1.60E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
743	457782.7	3768599	0.001532	7.85E-05	0.00E+00	1.53E-03	7.85E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
744	457773.8	3768602	0.00147	7.54E-05	0.00E+00	1.47E-03	7.54E-05	0.00E+00	4.40E-04	1.35E-05	0.00E+00	1.67E-04	4.37E-06	0.00E+00
745	457764.9	3768606	0.00141	7.23E-05	0.00E+00	1.41E-03	7.23E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
746	457756.1	3768610	0.001351	6.93E-05	0.00E+00	1.35E-03	6.93E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.02E-06	0.00E+00
747	457747.2	3768613	0.001295	6.64E-05	0.00E+00	1.29E-03	6.64E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
748	457738.3	3768617	0.00124	6.36E-05	0.00E+00	1.24E-03	6.36E-05	0.00E+00	3.71E-04	1.14E-05	0.00E+00	1.41E-04	3.69E-06	0.00E+00
749	457729.4	3768621	0.001187	6.09E-05	0.00E+00	1.19E-03	6.09E-05	0.00E+00	3.56E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00
750	458139	3768236	0.002717	1.39E-04	0.00E+00	2.72E-03	1.39E-04	0.00E+00	8.14E-04	2.50E-05	0.00E+00	3.08E-04	8.08E-06	0.00E+00
751	458135.5	3768244	0.002796	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.37E-04	2.58E-05	0.00E+00	3.17E-04	8.32E-06	0.00E+00
752	458131.9	3768253	0.002873	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.55E-06	0.00E+00
753	458128.4	3768262	0.002947	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.83E-04	2.72E-05	0.00E+00	3.34E-04	8.77E-06	0.00E+00
754	458100.2	3768332	0.003403	1.74E-04	0.00E+00	3.40E-03	1.74E-04	0.00E+00	1.02E-03	3.14E-05	0.00E+00	3.86E-04	1.01E-05	0.00E+00
755	458096.7	3768340	0.003438	1.76E-04	0.00E+00	3.44E-03	1.76E-04	0.00E+00	1.03E-03	3.17E-05	0.00E+00	3.90E-04	1.02E-05	0.00E+00
756	458093.1	3768349	0.003466	1.78E-04	0.00E+00	3.47E-03	1.78E-04	0.00E+00	1.04E-03	3.20E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
757	458089.6	3768358	0.003486	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.04E-03	3.21E-05	0.00E+00	3.95E-04	1.04E-05	0.00E+00
758	458086.1	3768367	0.003499	1.79E-04	0.00E+00	3.50E-03	1.79E-04	0.00E+00	1.05E-03	3.23E-05	0.00E+00	3.97E-04	1.04E-05	0.00E+00
759	458082.6	3768375	0.003505	1.80E-04	0.00E+00	3.50E-03	1.80E-04	0.00E+00	1.05E-03	3.23E-05	0.00E+00	3.98E-04	1.04E-05	0.00E+00
760	458079	3768384	0.003504	1.80E-04	0.00E+00	3.50E-03	1.80E-04	0.00E+00	1.05E-03	3.23E-05	0.00E+00	3.98E-04	1.04E-05	0.00E+00
761	458075.5	3768393	0.003496	1.79E-04	0.00E+00	3.50E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.97E-04	1.04E-05	0.00E+00
762	458050.8	3768454	0.00327	1.68E-04	0.00E+00	3.27E-03	1.68E-04	0.00E+00	9.79E-04	3.01E-05	0.00E+00	3.71E-04	9.73E-06	0.00E+00
763	458047.3	3768463	0.003215	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.63E-04	2.96E-05	0.00E+00	3.65E-04	9.57E-06	0.00E+00
764	458043.8	3768471	0.003156	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.45E-04	2.91E-05	0.00E+00	3.58E-04	9.39E-06	0.00E+00
765	458040.2	3768480	0.003092	1.59E-04	0.00E+00	3.09E-03	1.59E-04	0.00E+00	9.26E-04	2.85E-05	0.00E+00	3.51E-04	9.20E-06	0.00E+00

766	458036.7	3768489	0.003025	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.06E-04	2.79E-05	0.00E+00	3.43E-04	9.00E-06	0.00E+00
767	458033.2	3768498	0.002955	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.85E-04	2.72E-05	0.00E+00	3.35E-04	8.79E-06	0.00E+00
768	458029.7	3768506	0.002882	1.48E-04	0.00E+00	2.88E-03	1.48E-04	0.00E+00	8.63E-04	2.66E-05	0.00E+00	3.27E-04	8.57E-06	0.00E+00
769	458026.1	3768515	0.002806	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.41E-04	2.59E-05	0.00E+00	3.18E-04	8.35E-06	0.00E+00
770	458022.6	3768524	0.00273	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.12E-06	0.00E+00
771	458019.1	3768533	0.002651	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.94E-04	2.44E-05	0.00E+00	3.01E-04	7.89E-06	0.00E+00
772	458006.9	3768545	0.002543	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.62E-04	2.34E-05	0.00E+00	2.88E-04	7.57E-06	0.00E+00
773	457998.2	3768549	0.00251	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.52E-04	2.31E-05	0.00E+00	2.85E-04	7.47E-06	0.00E+00
774	457989.5	3768552	0.002475	1.27E-04	0.00E+00	2.47E-03	1.27E-04	0.00E+00	7.41E-04	2.28E-05	0.00E+00	2.81E-04	7.36E-06	0.00E+00
775	457980.8	3768556	0.002436	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.30E-04	2.25E-05	0.00E+00	2.76E-04	7.25E-06	0.00E+00
776	457972.1	3768559	0.002394	1.23E-04	0.00E+00	2.39E-03	1.23E-04	0.00E+00	7.17E-04	2.21E-05	0.00E+00	2.72E-04	7.12E-06	0.00E+00
777	457963.4	3768563	0.002351	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.04E-04	2.17E-05	0.00E+00	2.67E-04	6.99E-06	0.00E+00
778	457954.7	3768567	0.002304	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.86E-06	0.00E+00
779	457946	3768570	0.002256	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.76E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
780	457937.4	3768574	0.002205	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00
781	457928.7	3768578	0.002153	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.45E-04	1.98E-05	0.00E+00	2.44E-04	6.41E-06	0.00E+00
782	457920	3768581	0.002099	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.29E-04	1.93E-05	0.00E+00	2.38E-04	6.25E-06	0.00E+00
783	457911.3	3768585	0.002044	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
784	457902.6	3768588	0.001988	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.26E-04	5.91E-06	0.00E+00
785	457893.9	3768592	0.001931	9.90E-05	0.00E+00	1.93E-03	9.90E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.75E-06	0.00E+00
786	457885.2	3768596	0.001873	9.60E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.13E-04	5.57E-06	0.00E+00
787	457876.5	3768599	0.001816	9.31E-05	0.00E+00	1.82E-03	9.31E-05	0.00E+00	5.44E-04	1.67E-05	0.00E+00	2.06E-04	5.40E-06	0.00E+00
788	457867.8	3768603	0.001758	9.01E-05	0.00E+00	1.76E-03	9.01E-05	0.00E+00	5.27E-04	1.62E-05	0.00E+00	1.99E-04	5.23E-06	0.00E+00
789	457859.2	3768607	0.001701	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.10E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
790	457850.5	3768610	0.001644	8.43E-05	0.00E+00	1.64E-03	8.43E-05	0.00E+00	4.92E-04	1.52E-05	0.00E+00	1.87E-04	4.89E-06	0.00E+00
791	457841.8	3768614	0.001587	8.13E-05	0.00E+00	1.59E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
792	457833.1	3768618	0.001532	7.86E-05	0.00E+00	1.53E-03	7.86E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
793	457824.4	3768621	0.00148	7.59E-05	0.00E+00	1.48E-03	7.59E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
794	457815.7	3768625	0.001428	7.32E-05	0.00E+00	1.43E-03	7.32E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
795	457807	3768628	0.001376	7.05E-05	0.00E+00	1.38E-03	7.05E-05	0.00E+00	4.12E-04	1.27E-05	0.00E+00	1.56E-04	4.09E-06	0.00E+00
796	457798.3	3768632	0.001322	6.78E-05	0.00E+00	1.32E-03	6.78E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
797	458142.5	3768227	0.002636	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.89E-04	2.43E-05	0.00E+00	2.99E-04	7.84E-06	0.00E+00
798	458142.4	3768217	0.00258	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.73E-04	2.38E-05	0.00E+00	2.93E-04	7.68E-06	0.00E+00
799	458142.3	3768208	0.002522	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.55E-04	2.32E-05	0.00E+00	2.86E-04	7.50E-06	0.00E+00
800	458142.2	3768198	0.002461	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.32E-06	0.00E+00
801	458142.1	3768188	0.002397	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.18E-04	2.21E-05	0.00E+00	2.72E-04	7.13E-06	0.00E+00
802	458142	3768179	0.002331	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.94E-06	0.00E+00
803	458141.9	3768169	0.002263	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.78E-04	2.09E-05	0.00E+00	2.57E-04	6.73E-06	0.00E+00
804	458141.7	3768159	0.002193	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.57E-04	2.02E-05	0.00E+00	2.49E-04	6.53E-06	0.00E+00
805	458141.6	3768150	0.002123	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
806	458141.5	3768140	0.002052	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.14E-04	1.89E-05	0.00E+00	2.33E-04	6.11E-06	0.00E+00
807	458141.4	3768130	0.001982	1.02E-04	0.00E+00	1.98E-03	1.02E-04	0.00E+00	5.94E-04	1.83E-05	0.00E+00	2.25E-04	5.90E-06	0.00E+00
808	458141.3	3768121	0.001915	9.82E-05	0.00E+00	1.92E-03	9.82E-05	0.00E+00	5.74E-04	1.77E-05	0.00E+00	2.17E-04	5.70E-06	0.00E+00
809	458141.2	3768111	0.001849	9.48E-05	0.00E+00	1.85E-03	9.48E-05	0.00E+00	5.54E-04	1.70E-05	0.00E+00	2.10E-04	5.50E-06	0.00E+00
810	458141.1	3768102	0.001835	9.41E-05	0.00E+00	1.84E-03	9.41E-05	0.00E+00	5.50E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
811	458141	3768092	0.00177	9.08E-05	0.00E+00	1.77E-03	9.08E-05	0.00E+00	5.30E-04	1.63E-05	0.00E+00	2.01E-04	5.27E-06	0.00E+00
812	458140.8	3768082	0.001706	8.75E-05	0.00E+00	1.71E-03	8.75E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.94E-04	5.08E-06	0.00E+00
813	458140.7	3768073	0.001643	8.42E-05	0.00E+00	1.64E-03	8.42E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.89E-06	0.00E+00
814	458140.6	3768063	0.001581	8.11E-05	0.00E+00	1.58E-03	8.11E-05	0.00E+00	4.74E-04	1.46E-05	0.00E+00	1.79E-04	4.71E-06	0.00E+00
815	458140.5	3768053	0.001521	7.80E-05	0.00E+00	1.52E-03	7.80E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.73E-04	4.52E-06	0.00E+00
816	458140.4	3768044	0.001462	7.49E-05	0.00E+00	1.46E-03	7.49E-05	0.00E+00	4.38E-04	1.35E-05	0.00E+00	1.66E-04	4.35E-06	0.00E+00
817	458140.3	3768034	0.001405	7.20E-05	0.00E+00	1.40E-03	7.20E-05	0.00E+00	4.21E-04	1.29E-05	0.00E+00	1.59E-04	4.18E-06	0.00E+00
818	458140.2	3768024	0.00135	6.92E-05	0.00E+00	1.35E-03	6.92E-05	0.00E+00	4.04E-04	1.24E-05	0.00E+00	1.53E-04	4.02E-06	0.00E+00
819	458179	3768235	0.002392	1.23E-04	0.00E+00	2.39E-03	1.23E-04	0.00E+00	7.16E-04	2.20E-05	0.00E+00	2.71E-04	7.12E-06	0.00E+00
820	458175.4	3768244	0.002461	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.32E-06	0.00E+00
821	458171.9	3768253	0.002529	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.57E-04	2.33E-05	0.00E+00	2.87E-04	7.53E-06	0.00E+00
822	458168.3	3768262	0.002595	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.77E-04	2.39E-05	0.00E+00	2.94E-04	7.72E-06	0.00E+00
823	458164.8	3768270	0.002659	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.97E-04	2.45E-05	0.00E+00	3.02E-04	7.91E-06	0.00E+00
824	458161.2	3768279	0.002721	1.40E-04	0.00E+00	2.72E-03	1.40E-04	0.00E+00	8.15E-04	2.51E-05	0.00E+00	3.09E-04	8.10E-06	0.00E+00
825	458157.7	3768288	0.00278	1.43E-04	0.00E+00	2.78E-03	1.43E-04	0.00E+00	8.33E-04	2.56E-05	0.00E+00	3.15E-04	8.27E-06	0.00E+00
826	458154.1	3768297	0.002838	1.45E-04	0.00E+00	2.84E-03	1.45E-04	0.00E+00	8.50E-04	2.62E-05	0.00E+00	3.22E-04	8.44E-06	0.00E+00
827	458150.6	3768306	0.002892	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.66E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
828	458147	3768314	0.002942	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.81E-04	2.71E-05	0.00E+00	3.34E-04	8.76E-06	0.00E+00
829	458143.5	3768323	0.002988	1.53E-04	0.00E+00	2.99E-03	1.53E-04	0.00E+00	8.95E-04	2.75E-05	0.00E+00	3.39E-04	8.89E-06	0.00E+00
830	458139.9	3768332	0.003029	1.55E-04	0.00E+00	3.03E-03	1.55E-04	0.00E+00	9.07E-04	2.79E-05	0.00E+00	3.44E-04	9.01E-06	0.00E+00
831	458136.4	3768341	0.003065	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.18E-04	2.83E-05	0.00E+00	3.48E-04	9.12E-06	0.00E+00
832	458132.8	3768350	0.003097	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.27E-04	2.85E-05	0.00E+00	3.51E-04	9.21E-06	0.00E+00
833	458129.3	3768358	0.003123	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.35E-04	2.88E-05	0.00E+00	3.54E-04	9.29E-06	0.00E+00
834	458090.2	3768455	0.003053	1.57E-04	0.00E+00	3.05E-03	1.57E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
835	458086.6	3768464	0.003015	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.03E-04	2.78E-05	0.00E+00	3.42E-04	8.97E-06	0.00E+00
836	458083.1	3768473	0.002973	1.52E-04	0.00E+00	2.97E-03	1.52E-04	0.00E+00	8.90E-04	2.74E-05	0.00E+00	3.37E-04	8.85E-06	0.00E+00
837	458079.5	3768481	0.002926	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.76E-04	2.70E-05	0.00E+00	3.32E-04	8.71E-06	0.00E+00
838	458076	3768490	0.002876	1.47E-04	0.00E+00	2.88E-03	1.47E-04	0.00E+00	8.61E-04	2.65E-05	0.00E+00	3.26E-04	8.56E-06	0.00E+00
839	458072.4	3768499	0.002822	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.45E-04	2.60E-05	0.00E+00	3.20E-04	8.40E-06	0.00E+00
840	458068.9	3768508	0.002765	1.42E-04	0.00E+00	2.76E-03	1.42E-04	0.00E+00	8.28E-04	2.55E-05	0.00E+00	3.14E-04	8.23E-06	0.00E+00
841	458065.3	3768517	0.002705	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.10E-04	2.49E-05	0.00E+00	3.07E-04	8.05E-06	0.00E+00
842	458061.8	3768525	0.002643	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.92E-04	2.44E-05	0.00E+00	3.00E-04	7.86E-06	0.00E+00
843	458058.2	3768534	0.002579	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.72E-04	2.38E-05	0.00E+00	2.93E-04	7.67E-06	0.00E+00
844	458054.7	3768543	0.002513	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.48E-06	0.00E+00
845	458051.1	3768552	0.002444	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.27E-06	0.00E+00
846	458047.6	3768561	0.002375	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.07E-06	0.00E+00
847	458035.3	3768573	0.002279	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.83E-04	2.10E-05	0.00E+00	2.59E-04	6.78E-06	0.00E+00
848	458026.5	3768577	0.00225	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.74E-04	2.07E-05	0.00E+00	2.55E-04	6.70E-06	0.00E+00
849	458017.8	3768580	0.002218	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.64E-04	2.04E-05	0.00E+00	2.52E-04	6.60E-06	0.00E+00
850	458009	3768584	0.002182	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.49E-06	0.00E+00
851	458000.3	3768588	0.002145	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
852	457991.5	3768591	0.002106	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
853	457982.8	3768595	0.002066	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.19E-04	1.90E-05	0.00E+00	2.34E-04	6.15E-06	0.00E+00
854	457974	3768599	0.002024	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.87E-05	0.00E+00	2.30E-04	6.02E-06	0.00E+00
855	457965.3	3768602	0.001981	1.02E-04	0.00E+00	1.98E-03	1.02E-04	0.00E+00	5.93E-04	1.83E-05	0.00E+00	2.25E-04	5.89E-06	0.00E+00
856	457956.5	3768606	0.001935	9.92E-05	0.00E+00	1.94E-03	9.92E-05	0.00E+00	5.80E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
857	457947.8	3768610	0.001889	9.69E-05	0.00E+00	1.89E-03	9.69E-05	0.00E+00	5.66E-04	1.74E-05	0.00E+00	2.14E-04	5.62E-06	0.00E+00
858	457939	3768613	0.001843	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
859	457930.3	3768617	0.001797	9.21E-05	0.00E+00	1.80E-03	9.21E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.35E-06	0.00E+00
860	457921.5	3768621	0.001747	8.95E-05	0.00E+00	1.75E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
861	457912.8	3768624	0.001696	8.70E-05	0.00E+00	1.70E-03	8.70E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.92E-04	5.05E-06	0.00E+00

862	457904	3768628	0.001647	8.44E-05	0.00E+00	1.65E-03	8.44E-05	0.00E+00	4.93E-04	1.52E-05	0.00E+00	1.87E-04	4.90E-06	0.00E+00
863	457895.3	3768632	0.001597	8.19E-05	0.00E+00	1.60E-03	8.19E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
864	458182.5	3768226	0.002322	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.95E-04	2.14E-05	0.00E+00	2.63E-04	6.91E-06	0.00E+00
865	458182.4	3768217	0.002273	1.17E-04	0.00E+00	2.27E-03	1.17E-04	0.00E+00	6.81E-04	2.10E-05	0.00E+00	2.58E-04	6.76E-06	0.00E+00
866	458182.3	3768207	0.002222	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.66E-04	2.05E-05	0.00E+00	2.52E-04	6.61E-06	0.00E+00
867	458182.2	3768197	0.00217	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.50E-04	2.00E-05	0.00E+00	2.46E-04	6.46E-06	0.00E+00
868	458182.1	3768188	0.002115	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.33E-04	1.95E-05	0.00E+00	2.40E-04	6.29E-06	0.00E+00
869	458182	3768178	0.002058	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.16E-04	1.90E-05	0.00E+00	2.33E-04	6.12E-06	0.00E+00
870	458181.8	3768169	0.002	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	5.99E-04	1.84E-05	0.00E+00	2.27E-04	5.95E-06	0.00E+00
871	458181.7	3768159	0.001941	9.95E-05	0.00E+00	1.94E-03	9.95E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.78E-06	0.00E+00
872	458181.6	3768149	0.001881	9.64E-05	0.00E+00	1.88E-03	9.64E-05	0.00E+00	5.63E-04	1.73E-05	0.00E+00	2.13E-04	5.60E-06	0.00E+00
873	458181.5	3768140	0.001821	9.34E-05	0.00E+00	1.82E-03	9.34E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.07E-04	5.42E-06	0.00E+00
874	458181.4	3768130	0.001763	9.04E-05	0.00E+00	1.76E-03	9.04E-05	0.00E+00	5.28E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
875	458181.3	3768120	0.001707	8.75E-05	0.00E+00	1.71E-03	8.75E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.94E-04	5.08E-06	0.00E+00
876	458181.2	3768111	0.001651	8.46E-05	0.00E+00	1.65E-03	8.46E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.91E-06	0.00E+00
877	458181.1	3768101	0.001641	8.41E-05	0.00E+00	1.64E-03	8.41E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
878	458180.9	3768091	0.001587	8.13E-05	0.00E+00	1.59E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
879	458180.8	3768082	0.001533	7.86E-05	0.00E+00	1.53E-03	7.86E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
880	458180.7	3768072	0.001479	7.58E-05	0.00E+00	1.48E-03	7.58E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.40E-06	0.00E+00
881	458180.6	3768063	0.001427	7.32E-05	0.00E+00	1.43E-03	7.32E-05	0.00E+00	4.27E-04	1.32E-05	0.00E+00	1.62E-04	4.25E-06	0.00E+00
882	458180.5	3768053	0.001376	7.05E-05	0.00E+00	1.38E-03	7.05E-05	0.00E+00	4.12E-04	1.27E-05	0.00E+00	1.56E-04	4.09E-06	0.00E+00
883	458180.4	3768043	0.001325	6.79E-05	0.00E+00	1.33E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
884	458180.3	3768034	0.001276	6.54E-05	0.00E+00	1.28E-03	6.54E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
885	458180.2	3768024	0.001229	6.30E-05	0.00E+00	1.23E-03	6.30E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.39E-04	3.66E-06	0.00E+00
886	458218.9	3768235	0.002123	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
887	458215.4	3768244	0.002184	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.50E-06	0.00E+00
888	458211.8	3768252	0.002243	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
889	458208.2	3768261	0.002302	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
890	458204.7	3768270	0.00236	1.21E-04	0.00E+00	2.36E-03	1.21E-04	0.00E+00	7.07E-04	2.18E-05	0.00E+00	2.68E-04	7.02E-06	0.00E+00
891	458201.1	3768279	0.002416	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.24E-04	2.23E-05	0.00E+00	2.74E-04	7.19E-06	0.00E+00
892	458197.5	3768288	0.002471	1.27E-04	0.00E+00	2.47E-03	1.27E-04	0.00E+00	7.40E-04	2.28E-05	0.00E+00	2.80E-04	7.35E-06	0.00E+00
893	458193.9	3768297	0.002523	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.56E-04	2.33E-05	0.00E+00	2.86E-04	7.51E-06	0.00E+00
894	458190.4	3768306	0.002573	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.71E-04	2.37E-05	0.00E+00	2.92E-04	7.66E-06	0.00E+00
895	458186.8	3768314	0.00262	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.85E-04	2.42E-05	0.00E+00	2.97E-04	7.80E-06	0.00E+00
896	458183.2	3768323	0.002664	1.37E-04	0.00E+00	2.66E-03	1.37E-04	0.00E+00	7.98E-04	2.46E-05	0.00E+00	3.02E-04	7.93E-06	0.00E+00
897	458179.6	3768332	0.002705	1.39E-04	0.00E+00	2.70E-03	1.39E-04	0.00E+00	8.10E-04	2.49E-05	0.00E+00	3.07E-04	8.05E-06	0.00E+00
898	458176.1	3768341	0.002742	1.41E-04	0.00E+00	2.74E-03	1.41E-04	0.00E+00	8.21E-04	2.53E-05	0.00E+00	3.11E-04	8.16E-06	0.00E+00
899	458172.5	3768350	0.002775	1.42E-04	0.00E+00	2.78E-03	1.42E-04	0.00E+00	8.31E-04	2.56E-05	0.00E+00	3.15E-04	8.26E-06	0.00E+00
900	458168.9	3768359	0.002805	1.44E-04	0.00E+00	2.80E-03	1.44E-04	0.00E+00	8.40E-04	2.59E-05	0.00E+00	3.18E-04	8.35E-06	0.00E+00
901	458165.4	3768367	0.00283	1.45E-04	0.00E+00	2.83E-03	1.45E-04	0.00E+00	8.48E-04	2.61E-05	0.00E+00	3.21E-04	8.42E-06	0.00E+00
902	458161.8	3768376	0.002851	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.54E-04	2.63E-05	0.00E+00	3.23E-04	8.48E-06	0.00E+00
903	458158.2	3768385	0.002869	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.59E-04	2.64E-05	0.00E+00	3.25E-04	8.54E-06	0.00E+00
904	458154.6	3768394	0.002883	1.48E-04	0.00E+00	2.88E-03	1.48E-04	0.00E+00	8.63E-04	2.66E-05	0.00E+00	3.27E-04	8.58E-06	0.00E+00
905	458151.1	3768403	0.002892	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.66E-04	2.67E-05	0.00E+00	3.28E-04	8.60E-06	0.00E+00
906	458147.5	3768412	0.002895	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
907	458143.9	3768421	0.002893	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.66E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
908	458093.9	3768544	0.002435	1.25E-04	0.00E+00	2.43E-03	1.25E-04	0.00E+00	7.29E-04	2.24E-05	0.00E+00	2.76E-04	7.25E-06	0.00E+00
909	458090.3	3768553	0.002379	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.13E-04	2.19E-05	0.00E+00	2.70E-04	7.08E-06	0.00E+00
910	458086.8	3768562	0.002322	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.96E-04	2.14E-05	0.00E+00	2.63E-04	6.91E-06	0.00E+00
911	458083.2	3768571	0.002264	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.78E-04	2.09E-05	0.00E+00	2.57E-04	6.74E-06	0.00E+00
912	458079.6	3768580	0.002204	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00
913	458076	3768589	0.002144	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
914	458063.7	3768601	0.002058	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.17E-04	1.90E-05	0.00E+00	2.34E-04	6.13E-06	0.00E+00
915	458054.9	3768605	0.002032	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.09E-04	1.87E-05	0.00E+00	2.31E-04	6.05E-06	0.00E+00
916	458046.1	3768609	0.002003	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	6.00E-04	1.85E-05	0.00E+00	2.27E-04	5.96E-06	0.00E+00
917	458037.3	3768612	0.001972	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
918	458028.5	3768616	0.00194	9.94E-05	0.00E+00	1.94E-03	9.94E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
919	458019.7	3768620	0.001905	9.77E-05	0.00E+00	1.91E-03	9.77E-05	0.00E+00	5.71E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
920	458010.9	3768623	0.001869	9.58E-05	0.00E+00	1.87E-03	9.58E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
921	458002.1	3768627	0.001831	9.39E-05	0.00E+00	1.83E-03	9.39E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.08E-04	5.45E-06	0.00E+00
922	457993.3	3768631	0.001792	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
923	457984.5	3768634	0.001752	8.98E-05	0.00E+00	1.75E-03	8.98E-05	0.00E+00	5.25E-04	1.61E-05	0.00E+00	1.99E-04	5.21E-06	0.00E+00
924	458222.5	3768226	0.002062	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
925	458222.4	3768216	0.002018	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
926	458222.3	3768207	0.001972	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
927	458222.2	3768197	0.001926	9.87E-05	0.00E+00	1.93E-03	9.87E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.18E-04	5.73E-06	0.00E+00
928	458222.1	3768187	0.001878	9.63E-05	0.00E+00	1.88E-03	9.63E-05	0.00E+00	5.63E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
929	458222	3768178	0.001831	9.39E-05	0.00E+00	1.83E-03	9.39E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.08E-04	5.45E-06	0.00E+00
930	458221.8	3768168	0.001782	9.14E-05	0.00E+00	1.78E-03	9.14E-05	0.00E+00	5.34E-04	1.64E-05	0.00E+00	2.02E-04	5.30E-06	0.00E+00
931	458221.7	3768158	0.001732	8.88E-05	0.00E+00	1.73E-03	8.88E-05	0.00E+00	5.19E-04	1.60E-05	0.00E+00	1.97E-04	5.15E-06	0.00E+00
932	458221.6	3768149	0.001681	8.62E-05	0.00E+00	1.68E-03	8.62E-05	0.00E+00	5.03E-04	1.55E-05	0.00E+00	1.91E-04	5.00E-06	0.00E+00
933	458221.5	3768139	0.00163	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.88E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
934	458221.4	3768130	0.001579	8.10E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
935	458221.3	3768120	0.001529	7.84E-05	0.00E+00	1.53E-03	7.84E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.73E-04	4.55E-06	0.00E+00
936	458221.2	3768110	0.001479	7.58E-05	0.00E+00	1.48E-03	7.58E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.40E-06	0.00E+00
937	458221.1	3768101	0.001431	7.33E-05	0.00E+00	1.43E-03	7.33E-05	0.00E+00	4.28E-04	1.32E-05	0.00E+00	1.62E-04	4.26E-06	0.00E+00
938	458220.9	3768091	0.001383	7.09E-05	0.00E+00	1.38E-03	7.09E-05	0.00E+00	4.14E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
939	458220.8	3768081	0.001337	6.85E-05	0.00E+00	1.34E-03	6.85E-05	0.00E+00	4.00E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
940	458220.7	3768072	0.001341	6.87E-05	0.00E+00	1.34E-03	6.87E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	3.99E-06	0.00E+00
941	458220.6	3768062	0.001296	6.64E-05	0.00E+00	1.30E-03	6.64E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.86E-06	0.00E+00
942	458220.5	3768052	0.001252	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
943	458220.4	3768043	0.001209	6.20E-05	0.00E+00	1.21E-03	6.20E-05	0.00E+00	3.62E-04	1.11E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
944	458220.3	3768033	0.001166	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.49E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
945	458220.2	3768024	0.001125	5.77E-05	0.00E+00	1.13E-03	5.77E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
946	458258.9	3768234	0.001898	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.68E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
947	458255.3	3768243	0.001951	1.00E-04	0.00E+00	1.95E-03	1.00E-04	0.00E+00	5.84E-04	1.80E-05	0.00E+00	2.21E-04	5.81E-06	0.00E+00
948	458251.7	3768252	0.002004	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	6.00E-04	1.85E-05	0.00E+00	2.27E-04	5.96E-06	0.00E+00
949	458248.2	3768261	0.002056	1.05E-04	0.00E+00	2.06E-03	1.05E-04	0.00E+00	6.16E-04	1.90E-05	0.00E+00	2.33E-04	6.12E-06	0.00E+00
950	458244.6	3768270	0.002108	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
951	458241	3768279	0.002158	1.11E-04	0.00E+00	2.16E-03	1.11E-04	0.00E+00	6.46E-04	1.99E-05	0.00E+00	2.45E-04	6.42E-06	0.00E+00
952	458237.4	3768288	0.002207	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.03E-05	0.00E+00	2.50E-04	6.57E-06	0.00E+00
953	458233.8	3768297	0.002255	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
954	458230.2	3768305	0.002301	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.89E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
955	458226.6	3768314	0.002345	1.20E-04	0.00E+00	2.35E-03	1.20E-04	0.00E+00	7.02E-04	2.16E-05	0.00E+00	2.66E-04	6.98E-06	0.00E+00
956	458223	3768323	0.002387	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.15E-04	2.20E-05	0.00E+00	2.71E-04	7.10E-06	0.00E+00
957	458219.4	3768332	0.002426	1.24E-04	0.00E+00	2.43E-03	1.24E-04	0.00E+00	7.27E-04	2.24E-05	0.00E+00	2.75E-04	7.22E-06	0.00E+00

958	458215.8	3768341	0.002462	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.38E-04	2.27E-05	0.00E+00	2.79E-04	7.33E-06	0.00E+00
959	458212.2	3768350	0.002497	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.48E-04	2.30E-05	0.00E+00	2.83E-04	7.43E-06	0.00E+00
960	458208.7	3768359	0.002528	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.57E-04	2.33E-05	0.00E+00	2.87E-04	7.52E-06	0.00E+00
961	458205.1	3768368	0.002557	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.66E-04	2.36E-05	0.00E+00	2.90E-04	7.61E-06	0.00E+00
962	458201.5	3768377	0.002582	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.73E-04	2.38E-05	0.00E+00	2.93E-04	7.68E-06	0.00E+00
963	458197.9	3768386	0.002603	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.95E-04	7.74E-06	0.00E+00
964	458194.3	3768394	0.00262	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.85E-04	2.41E-05	0.00E+00	2.97E-04	7.80E-06	0.00E+00
965	458190.7	3768403	0.002633	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.89E-04	2.43E-05	0.00E+00	2.99E-04	7.84E-06	0.00E+00
966	458187.1	3768412	0.002643	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.91E-04	2.44E-05	0.00E+00	3.00E-04	7.86E-06	0.00E+00
967	458092.1	3768629	0.001868	9.58E-05	0.00E+00	1.87E-03	9.58E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
968	458083.2	3768633	0.001844	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
969	458262.5	3768225	0.001844	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
970	458262.4	3768216	0.001805	9.25E-05	0.00E+00	1.81E-03	9.25E-05	0.00E+00	5.41E-04	1.66E-05	0.00E+00	2.05E-04	5.37E-06	0.00E+00
971	458262.3	3768206	0.001765	9.05E-05	0.00E+00	1.76E-03	9.05E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
972	458262.2	3768197	0.001724	8.84E-05	0.00E+00	1.72E-03	8.84E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.96E-04	5.13E-06	0.00E+00
973	458262.1	3768187	0.001683	8.63E-05	0.00E+00	1.68E-03	8.63E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
974	458262	3768177	0.001642	8.42E-05	0.00E+00	1.64E-03	8.42E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.89E-06	0.00E+00
975	458261.8	3768168	0.0016	8.20E-05	0.00E+00	1.60E-03	8.20E-05	0.00E+00	4.79E-04	1.48E-05	0.00E+00	1.82E-04	4.76E-06	0.00E+00
976	458261.7	3768158	0.001557	7.98E-05	0.00E+00	1.56E-03	7.98E-05	0.00E+00	4.66E-04	1.44E-05	0.00E+00	1.77E-04	4.63E-06	0.00E+00
977	458261.6	3768148	0.001513	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
978	458261.5	3768139	0.001469	7.53E-05	0.00E+00	1.47E-03	7.53E-05	0.00E+00	4.40E-04	1.35E-05	0.00E+00	1.67E-04	4.37E-06	0.00E+00
979	458261.4	3768129	0.001425	7.30E-05	0.00E+00	1.42E-03	7.30E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
980	458261.3	3768119	0.001381	7.08E-05	0.00E+00	1.38E-03	7.08E-05	0.00E+00	4.14E-04	1.27E-05	0.00E+00	1.57E-04	4.11E-06	0.00E+00
981	458261.2	3768110	0.001337	6.86E-05	0.00E+00	1.34E-03	6.86E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
982	458261.1	3768100	0.001294	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
983	458260.9	3768091	0.001251	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
984	458260.8	3768081	0.001209	6.20E-05	0.00E+00	1.21E-03	6.20E-05	0.00E+00	3.62E-04	1.11E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
985	458260.7	3768071	0.001169	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
986	458260.6	3768062	0.001132	5.80E-05	0.00E+00	1.13E-03	5.80E-05	0.00E+00	3.39E-04	1.04E-05	0.00E+00	1.28E-04	3.37E-06	0.00E+00
987	458260.5	3768052	0.001096	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
988	458260.4	3768042	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
989	458260.3	3768033	0.001071	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.87E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
990	458260.2	3768023	0.001035	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.54E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
991	458298.9	3768234	0.001707	8.75E-05	0.00E+00	1.71E-03	8.75E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.94E-04	5.08E-06	0.00E+00
992	458295.3	3768243	0.001754	8.99E-05	0.00E+00	1.75E-03	8.99E-05	0.00E+00	5.25E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
993	458291.7	3768252	0.001801	9.23E-05	0.00E+00	1.80E-03	9.23E-05	0.00E+00	5.39E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
994	458288.1	3768261	0.001848	9.47E-05	0.00E+00	1.85E-03	9.47E-05	0.00E+00	5.53E-04	1.70E-05	0.00E+00	2.10E-04	5.50E-06	0.00E+00
995	458284.5	3768270	0.001893	9.71E-05	0.00E+00	1.89E-03	9.71E-05	0.00E+00	5.67E-04	1.75E-05	0.00E+00	2.15E-04	5.63E-06	0.00E+00
996	458280.9	3768279	0.001939	9.94E-05	0.00E+00	1.94E-03	9.94E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
997	458277.3	3768288	0.001983	1.02E-04	0.00E+00	1.98E-03	1.02E-04	0.00E+00	5.94E-04	1.83E-05	0.00E+00	2.25E-04	5.90E-06	0.00E+00
998	458273.7	3768296	0.002027	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.07E-04	1.87E-05	0.00E+00	2.30E-04	6.03E-06	0.00E+00
999	458270.1	3768305	0.002069	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
1000	458266.4	3768314	0.002109	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.32E-04	1.94E-05	0.00E+00	2.39E-04	6.28E-06	0.00E+00
1001	458262.8	3768323	0.002149	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.44E-04	1.98E-05	0.00E+00	2.44E-04	6.39E-06	0.00E+00
1002	458259.2	3768332	0.002186	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.55E-04	2.02E-05	0.00E+00	2.48E-04	6.51E-06	0.00E+00
1003	458255.6	3768341	0.002222	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.66E-04	2.05E-05	0.00E+00	2.52E-04	6.61E-06	0.00E+00
1004	458252	3768350	0.002255	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
1005	458248.4	3768359	0.002286	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.85E-04	2.11E-05	0.00E+00	2.59E-04	6.80E-06	0.00E+00
1006	458244.8	3768368	0.002315	1.19E-04	0.00E+00	2.31E-03	1.19E-04	0.00E+00	6.93E-04	2.13E-05	0.00E+00	2.63E-04	6.89E-06	0.00E+00
1007	458241.2	3768377	0.002341	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.01E-04	2.16E-05	0.00E+00	2.66E-04	6.96E-06	0.00E+00
1008	458237.6	3768386	0.002363	1.21E-04	0.00E+00	2.36E-03	1.21E-04	0.00E+00	7.08E-04	2.18E-05	0.00E+00	2.68E-04	7.03E-06	0.00E+00
1009	458234	3768395	0.002383	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.14E-04	2.20E-05	0.00E+00	2.70E-04	7.09E-06	0.00E+00
1010	458230.4	3768404	0.0024	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.19E-04	2.21E-05	0.00E+00	2.72E-04	7.14E-06	0.00E+00
1011	458226.8	3768413	0.002414	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.23E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
1012	458302.5	3768225	0.00166	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
1013	458302.4	3768215	0.001626	8.33E-05	0.00E+00	1.63E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.84E-06	0.00E+00
1014	458302.3	3768206	0.00159	8.15E-05	0.00E+00	1.59E-03	8.15E-05	0.00E+00	4.76E-04	1.47E-05	0.00E+00	1.80E-04	4.73E-06	0.00E+00
1015	458302.2	3768196	0.001554	7.97E-05	0.00E+00	1.55E-03	7.97E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
1016	458302.1	3768186	0.001517	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
1017	458302	3768177	0.001481	7.59E-05	0.00E+00	1.48E-03	7.59E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
1018	458301.8	3768167	0.001444	7.40E-05	0.00E+00	1.44E-03	7.40E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
1019	458301.7	3768158	0.001407	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.21E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
1020	458301.6	3768148	0.001369	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
1021	458301.5	3768138	0.001332	6.83E-05	0.00E+00	1.33E-03	6.83E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.96E-06	0.00E+00
1022	458301.4	3768129	0.001294	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
1023	458301.3	3768119	0.001256	6.44E-05	0.00E+00	1.26E-03	6.44E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.74E-06	0.00E+00
1024	458301.2	3768109	0.001218	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
1025	458301.1	3768100	0.001181	6.05E-05	0.00E+00	1.18E-03	6.05E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
1026	458300.9	3768090	0.001143	5.86E-05	0.00E+00	1.14E-03	5.86E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.30E-04	3.40E-06	0.00E+00
1027	458300.8	3768080	0.001107	5.67E-05	0.00E+00	1.11E-03	5.67E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.29E-06	0.00E+00
1028	458300.7	3768071	0.001072	5.50E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.89E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
1029	458300.6	3768061	0.00104	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.59E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
1030	458300.5	3768052	0.001008	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
1031	458300.4	3768042	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.05E-04	9.40E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
1032	458300.3	3768032	0.000988	5.06E-05	0.00E+00	9.88E-04	5.06E-05	0.00E+00	2.96E-04	9.10E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
1033	458300.2	3768023	0.000956	4.90E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1034	458339	3768233	0.001544	7.91E-05	0.00E+00	1.54E-03	7.91E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
1035	458335.4	3768242	0.001584	8.12E-05	0.00E+00	1.58E-03	8.12E-05	0.00E+00	4.74E-04	1.46E-05	0.00E+00	1.80E-04	4.71E-06	0.00E+00
1036	458331.9	3768251	0.001625	8.33E-05	0.00E+00	1.62E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
1037	458328.3	3768260	0.001665	8.54E-05	0.00E+00	1.67E-03	8.54E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
1038	458324.8	3768269	0.001706	8.75E-05	0.00E+00	1.71E-03	8.75E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.94E-04	5.08E-06	0.00E+00
1039	458321.2	3768277	0.001746	8.95E-05	0.00E+00	1.75E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
1040	458317.7	3768286	0.001786	9.15E-05	0.00E+00	1.79E-03	9.15E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.31E-06	0.00E+00
1041	458314.1	3768295	0.001824	9.35E-05	0.00E+00	1.82E-03	9.35E-05	0.00E+00	5.46E-04	1.68E-05	0.00E+00	2.07E-04	5.43E-06	0.00E+00
1042	458310.5	3768304	0.001862	9.55E-05	0.00E+00	1.86E-03	9.55E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
1043	458307	3768312	0.001899	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
1044	458303.4	3768321	0.001935	9.92E-05	0.00E+00	1.93E-03	9.92E-05	0.00E+00	5.79E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
1045	458299.9	3768330	0.001969	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.90E-04	1.82E-05	0.00E+00	2.23E-04	5.86E-06	0.00E+00
1046	458296.3	3768339	0.002003	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	6.00E-04	1.85E-05	0.00E+00	2.27E-04	5.96E-06	0.00E+00
1047	458292.8	3768348	0.002035	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.09E-04	1.88E-05	0.00E+00	2.31E-04	6.06E-06	0.00E+00
1048	458289.2	3768356	0.002065	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
1049	458285.7	3768365	0.002093	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.27E-04	1.93E-05	0.00E+00	2.37E-04	6.23E-06	0.00E+00
1050	458282.1	3768374	0.002119	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.35E-04	1.95E-05	0.00E+00	2.40E-04	6.31E-06	0.00E+00
1051	458278.6	3768383	0.002143	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
1052	458275	3768392	0.002165	1.11E-04	0.00E+00	2.16E-03	1.11E-04	0.00E+00	6.48E-04	2.00E-05	0.00E+00	2.46E-04	6.44E-06	0.00E+00
1053	458271.5	3768400	0.002184	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.50E-06	0.00E+00

1054	458267.9	3768409	0.002202	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.59E-04	2.03E-05	0.00E+00	2.50E-04	6.55E-06	0.00E+00
1055	458264.4	3768418	0.002217	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.64E-04	2.04E-05	0.00E+00	2.52E-04	6.60E-06	0.00E+00
1056	458342.5	3768225	0.001503	7.71E-05	0.00E+00	1.50E-03	7.71E-05	0.00E+00	4.50E-04	1.39E-05	0.00E+00	1.71E-04	4.47E-06	0.00E+00
1057	458342.4	3768215	0.001472	7.55E-05	0.00E+00	1.47E-03	7.55E-05	0.00E+00	4.41E-04	1.36E-05	0.00E+00	1.67E-04	4.38E-06	0.00E+00
1058	458342.3	3768205	0.001441	7.39E-05	0.00E+00	1.44E-03	7.39E-05	0.00E+00	4.32E-04	1.33E-05	0.00E+00	1.63E-04	4.29E-06	0.00E+00
1059	458342.2	3768196	0.001409	7.22E-05	0.00E+00	1.41E-03	7.22E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
1060	458342.1	3768186	0.001376	7.06E-05	0.00E+00	1.38E-03	7.06E-05	0.00E+00	4.12E-04	1.27E-05	0.00E+00	1.56E-04	4.10E-06	0.00E+00
1061	458341.9	3768176	0.001343	6.89E-05	0.00E+00	1.34E-03	6.89E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	4.00E-06	0.00E+00
1062	458341.8	3768167	0.00131	6.72E-05	0.00E+00	1.31E-03	6.72E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.49E-04	3.90E-06	0.00E+00
1063	458341.7	3768157	0.001277	6.55E-05	0.00E+00	1.28E-03	6.55E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
1064	458341.6	3768147	0.001244	6.38E-05	0.00E+00	1.24E-03	6.38E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
1065	458341.5	3768138	0.00121	6.21E-05	0.00E+00	1.21E-03	6.21E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
1066	458341.4	3768128	0.001178	6.04E-05	0.00E+00	1.18E-03	6.04E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
1067	458341.3	3768119	0.001146	5.88E-05	0.00E+00	1.15E-03	5.88E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
1068	458341.2	3768109	0.001115	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.26E-04	3.32E-06	0.00E+00
1069	458341.1	3768099	0.001082	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.98E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
1070	458340.9	3768090	0.00105	5.38E-05	0.00E+00	1.05E-03	5.38E-05	0.00E+00	3.14E-04	9.68E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
1071	458340.8	3768080	0.001018	5.22E-05	0.00E+00	1.02E-03	5.22E-05	0.00E+00	3.05E-04	9.38E-06	0.00E+00	1.15E-04	3.03E-06	0.00E+00
1072	458340.7	3768070	0.000987	5.06E-05	0.00E+00	9.87E-04	5.06E-05	0.00E+00	2.96E-04	9.10E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
1073	458340.6	3768061	0.000957	4.90E-05	0.00E+00	9.57E-04	4.90E-05	0.00E+00	2.87E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1074	458340.5	3768051	0.000927	4.75E-05	0.00E+00	9.27E-04	4.75E-05	0.00E+00	2.78E-04	8.55E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
1075	458340.4	3768041	0.000899	4.61E-05	0.00E+00	8.99E-04	4.61E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
1076	458340.3	3768032	0.000872	4.47E-05	0.00E+00	8.72E-04	4.47E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.89E-05	2.59E-06	0.00E+00
1077	458340.2	3768022	0.000845	4.33E-05	0.00E+00	8.45E-04	4.33E-05	0.00E+00	2.53E-04	7.79E-06	0.00E+00	9.59E-05	2.52E-06	0.00E+00
1078	458378.9	3768233	0.001404	7.20E-05	0.00E+00	1.40E-03	7.20E-05	0.00E+00	4.21E-04	1.29E-05	0.00E+00	1.59E-04	4.18E-06	0.00E+00
1079	458375.4	3768242	0.00144	7.38E-05	0.00E+00	1.44E-03	7.38E-05	0.00E+00	4.31E-04	1.33E-05	0.00E+00	1.63E-04	4.29E-06	0.00E+00
1080	458371.8	3768251	0.001476	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.67E-04	4.39E-06	0.00E+00
1081	458368.2	3768259	0.001513	7.75E-05	0.00E+00	1.51E-03	7.75E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
1082	458364.7	3768268	0.001549	7.94E-05	0.00E+00	1.55E-03	7.94E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
1083	458361.1	3768277	0.001585	8.13E-05	0.00E+00	1.58E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
1084	458357.5	3768286	0.001621	8.31E-05	0.00E+00	1.62E-03	8.31E-05	0.00E+00	4.85E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
1085	458354	3768295	0.001656	8.49E-05	0.00E+00	1.66E-03	8.49E-05	0.00E+00	4.96E-04	1.53E-05	0.00E+00	1.88E-04	4.93E-06	0.00E+00
1086	458350.4	3768304	0.00169	8.66E-05	0.00E+00	1.69E-03	8.66E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
1087	458346.8	3768312	0.001724	8.84E-05	0.00E+00	1.72E-03	8.84E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.96E-04	5.13E-06	0.00E+00
1088	458343.3	3768321	0.001757	9.01E-05	0.00E+00	1.76E-03	9.01E-05	0.00E+00	5.26E-04	1.62E-05	0.00E+00	1.99E-04	5.23E-06	0.00E+00
1089	458339.7	3768330	0.001789	9.17E-05	0.00E+00	1.79E-03	9.17E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
1090	458336.1	3768339	0.001819	9.33E-05	0.00E+00	1.82E-03	9.33E-05	0.00E+00	5.45E-04	1.68E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
1091	458332.6	3768348	0.001849	9.48E-05	0.00E+00	1.85E-03	9.48E-05	0.00E+00	5.54E-04	1.70E-05	0.00E+00	2.10E-04	5.50E-06	0.00E+00
1092	458329	3768357	0.001878	9.63E-05	0.00E+00	1.88E-03	9.63E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
1093	458325.4	3768365	0.001905	9.77E-05	0.00E+00	1.91E-03	9.77E-05	0.00E+00	5.71E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
1094	458321.9	3768374	0.001931	9.90E-05	0.00E+00	1.93E-03	9.90E-05	0.00E+00	5.78E-04	1.78E-05	0.00E+00	2.19E-04	5.75E-06	0.00E+00
1095	458318.3	3768383	0.001955	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.86E-04	1.80E-05	0.00E+00	2.22E-04	5.82E-06	0.00E+00
1096	458314.7	3768392	0.001977	1.01E-04	0.00E+00	1.98E-03	1.01E-04	0.00E+00	5.92E-04	1.82E-05	0.00E+00	2.24E-04	5.88E-06	0.00E+00
1097	458311.2	3768401	0.001998	1.02E-04	0.00E+00	2.00E-03	1.02E-04	0.00E+00	5.98E-04	1.84E-05	0.00E+00	2.27E-04	5.94E-06	0.00E+00
1098	458307.6	3768410	0.002016	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
1099	458304	3768418	0.002032	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.09E-04	1.87E-05	0.00E+00	2.31E-04	6.05E-06	0.00E+00
1100	458382.5	3768224	0.001368	7.01E-05	0.00E+00	1.37E-03	7.01E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
1101	458382.4	3768214	0.001341	6.87E-05	0.00E+00	1.34E-03	6.87E-05	0.00E+00	4.02E-04	1.24E-05	0.00E+00	1.52E-04	3.99E-06	0.00E+00
1102	458382.3	3768205	0.001313	6.73E-05	0.00E+00	1.31E-03	6.73E-05	0.00E+00	3.93E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
1103	458382.2	3768195	0.001284	6.58E-05	0.00E+00	1.28E-03	6.58E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
1104	458382.1	3768186	0.001255	6.44E-05	0.00E+00	1.26E-03	6.44E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.74E-06	0.00E+00
1105	458381.9	3768176	0.001226	6.29E-05	0.00E+00	1.23E-03	6.29E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1106	458381.8	3768166	0.001197	6.14E-05	0.00E+00	1.20E-03	6.14E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
1107	458381.7	3768157	0.001167	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
1108	458381.6	3768147	0.001138	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
1109	458381.5	3768137	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
1110	458381.4	3768128	0.00108	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.23E-04	9.95E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
1111	458381.3	3768118	0.001052	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.70E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
1112	458381.2	3768108	0.001025	5.25E-05	0.00E+00	1.02E-03	5.25E-05	0.00E+00	3.07E-04	9.45E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
1113	458381	3768099	0.000996	5.11E-05	0.00E+00	9.96E-04	5.11E-05	0.00E+00	2.98E-04	9.18E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1114	458380.9	3768089	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1115	458380.8	3768080	0.00094	4.82E-05	0.00E+00	9.40E-04	4.82E-05	0.00E+00	2.82E-04	8.66E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1116	458380.7	3768070	0.000912	4.68E-05	0.00E+00	9.12E-04	4.68E-05	0.00E+00	2.73E-04	8.41E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
1117	458380.6	3768060	0.000885	4.54E-05	0.00E+00	8.85E-04	4.54E-05	0.00E+00	2.65E-04	8.16E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
1118	458380.5	3768051	0.000858	4.40E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.91E-06	0.00E+00	9.74E-05	2.55E-06	0.00E+00
1119	458380.4	3768041	0.000833	4.27E-05	0.00E+00	8.33E-04	4.27E-05	0.00E+00	2.50E-04	7.68E-06	0.00E+00	9.45E-05	2.48E-06	0.00E+00
1120	458380.3	3768031	0.00081	4.15E-05	0.00E+00	8.10E-04	4.15E-05	0.00E+00	2.42E-04	7.46E-06	0.00E+00	9.19E-05	2.41E-06	0.00E+00
1121	458380.1	3768022	0.000787	4.03E-05	0.00E+00	7.87E-04	4.03E-05	0.00E+00	2.36E-04	7.25E-06	0.00E+00	8.93E-05	2.34E-06	0.00E+00
1122	458418.9	3768232	0.001282	6.57E-05	0.00E+00	1.28E-03	6.57E-05	0.00E+00	3.84E-04	1.18E-05	0.00E+00	1.45E-04	3.81E-06	0.00E+00
1123	458415.3	3768241	0.001315	6.74E-05	0.00E+00	1.31E-03	6.74E-05	0.00E+00	3.94E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
1124	458411.8	3768250	0.001347	6.91E-05	0.00E+00	1.35E-03	6.91E-05	0.00E+00	4.04E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
1125	458408.2	3768259	0.00138	7.08E-05	0.00E+00	1.38E-03	7.08E-05	0.00E+00	4.13E-04	1.27E-05	0.00E+00	1.57E-04	4.11E-06	0.00E+00
1126	458404.6	3768268	0.001413	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
1127	458401	3768277	0.001445	7.41E-05	0.00E+00	1.45E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
1128	458397.4	3768286	0.001478	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.40E-06	0.00E+00
1129	458393.8	3768295	0.001509	7.74E-05	0.00E+00	1.51E-03	7.74E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
1130	458390.3	3768303	0.001541	7.90E-05	0.00E+00	1.54E-03	7.90E-05	0.00E+00	4.61E-04	1.42E-05	0.00E+00	1.75E-04	4.58E-06	0.00E+00
1131	458386.7	3768312	0.001572	8.06E-05	0.00E+00	1.57E-03	8.06E-05	0.00E+00	4.71E-04	1.45E-05	0.00E+00	1.78E-04	4.68E-06	0.00E+00
1132	458383.1	3768321	0.001602	8.21E-05	0.00E+00	1.60E-03	8.21E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
1133	458379.5	3768330	0.001631	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.89E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
1134	458375.9	3768339	0.00166	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
1135	458372.4	3768348	0.001687	8.65E-05	0.00E+00	1.69E-03	8.65E-05	0.00E+00	5.05E-04	1.56E-05	0.00E+00	1.91E-04	5.02E-06	0.00E+00
1136	458368.8	3768357	0.001715	8.79E-05	0.00E+00	1.71E-03	8.79E-05	0.00E+00	5.14E-04	1.58E-05	0.00E+00	1.95E-04	5.10E-06	0.00E+00
1137	458365.2	3768366	0.001741	8.92E-05	0.00E+00	1.74E-03	8.92E-05	0.00E+00	5.21E-04	1.60E-05	0.00E+00	1.97E-04	5.18E-06	0.00E+00
1138	458361.6	3768374	0.001766	9.05E-05	0.00E+00	1.77E-03	9.05E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
1139	458358	3768383	0.001789	9.17E-05	0.00E+00	1.79E-03	9.17E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
1140	458354.4	3768392	0.001811	9.28E-05	0.00E+00	1.81E-03	9.28E-05	0.00E+00	5.42E-04	1.67E-05	0.00E+00	2.05E-04	5.39E-06	0.00E+00
1141	458350.9	3768401	0.001831	9.39E-05	0.00E+00	1.83E-03	9.39E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.08E-04	5.45E-06	0.00E+00
1142	458347.3	3768410	0.00185	9.48E-05	0.00E+00	1.85E-03	9.48E-05	0.00E+00	5.54E-04	1.71E-05	0.00E+00	2.10E-04	5.51E-06	0.00E+00
1143	458422.5	3768224	0.001249	6.40E-05	0.00E+00	1.25E-03	6.40E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
1144	458422.4	3768214	0.001225	6.28E-05	0.00E+00	1.23E-03	6.28E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
1145	458422.3	3768204	0.001201	6.16E-05	0.00E+00	1.20E-03	6.16E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
1146	458422.2	3768195	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
1147	458422.1	3768185	0.00115	5.90E-05	0.00E+00	1.15E-03	5.90E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.42E-06	0.00E+00
1148	458421.9	3768175	0.001125	5.76E-05	0.00E+00	1.12E-03	5.76E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
1149	458421.8	3768166	0.001098	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00

1150	458421.7	3768156	0.001072	5.50E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.88E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
1151	458421.6	3768147	0.001046	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.64E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
1152	458421.5	3768137	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.05E-04	9.40E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
1153	458421.4	3768127	0.000994	5.09E-05	0.00E+00	9.94E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
1154	458421.3	3768118	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
1155	458421.2	3768108	0.000942	4.83E-05	0.00E+00	9.42E-04	4.83E-05	0.00E+00	2.82E-04	8.68E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1156	458421	3768098	0.000917	4.70E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
1157	458420.9	3768089	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
1158	458420.8	3768079	0.000871	4.46E-05	0.00E+00	8.71E-04	4.46E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
1159	458420.7	3768069	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.80E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
1160	458420.6	3768060	0.000822	4.22E-05	0.00E+00	8.22E-04	4.22E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
1161	458420.5	3768050	0.000799	4.09E-05	0.00E+00	7.99E-04	4.09E-05	0.00E+00	2.39E-04	7.36E-06	0.00E+00	9.06E-05	2.38E-06	0.00E+00
1162	458420.4	3768040	0.000775	3.97E-05	0.00E+00	7.75E-04	3.97E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
1163	458420.3	3768031	0.000752	3.86E-05	0.00E+00	7.52E-04	3.86E-05	0.00E+00	2.25E-04	6.94E-06	0.00E+00	8.54E-05	2.24E-06	0.00E+00
1164	458420.1	3768021	0.00073	3.74E-05	0.00E+00	7.30E-04	3.74E-05	0.00E+00	2.19E-04	6.73E-06	0.00E+00	8.28E-05	2.17E-06	0.00E+00
1165	458458.9	3768232	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
1166	458455.3	3768241	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
1167	458451.7	3768250	0.001235	6.33E-05	0.00E+00	1.24E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
1168	458448.1	3768259	0.001265	6.48E-05	0.00E+00	1.26E-03	6.48E-05	0.00E+00	3.79E-04	1.17E-05	0.00E+00	1.43E-04	3.76E-06	0.00E+00
1169	458444.5	3768268	0.001294	6.64E-05	0.00E+00	1.29E-03	6.64E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
1170	458440.9	3768277	0.001324	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
1171	458437.3	3768285	0.001353	6.93E-05	0.00E+00	1.35E-03	6.93E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.03E-06	0.00E+00
1172	458433.7	3768294	0.001382	7.08E-05	0.00E+00	1.38E-03	7.08E-05	0.00E+00	4.14E-04	1.27E-05	0.00E+00	1.57E-04	4.11E-06	0.00E+00
1173	458430.1	3768303	0.00141	7.23E-05	0.00E+00	1.41E-03	7.23E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
1174	458426.6	3768312	0.001438	7.37E-05	0.00E+00	1.44E-03	7.37E-05	0.00E+00	4.31E-04	1.33E-05	0.00E+00	1.63E-04	4.28E-06	0.00E+00
1175	458423	3768321	0.001466	7.52E-05	0.00E+00	1.47E-03	7.52E-05	0.00E+00	4.39E-04	1.35E-05	0.00E+00	1.66E-04	4.36E-06	0.00E+00
1176	458419.4	3768330	0.001493	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00
1177	458415.8	3768339	0.00152	7.79E-05	0.00E+00	1.52E-03	7.79E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
1178	458412.2	3768348	0.001545	7.92E-05	0.00E+00	1.55E-03	7.92E-05	0.00E+00	4.63E-04	1.42E-05	0.00E+00	1.75E-04	4.60E-06	0.00E+00
1179	458408.6	3768357	0.001571	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
1180	458405	3768366	0.001595	8.18E-05	0.00E+00	1.60E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
1181	458401.4	3768374	0.001619	8.30E-05	0.00E+00	1.62E-03	8.30E-05	0.00E+00	4.85E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
1182	458397.8	3768383	0.001641	8.42E-05	0.00E+00	1.64E-03	8.42E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.88E-06	0.00E+00
1183	458394.2	3768392	0.001663	8.52E-05	0.00E+00	1.66E-03	8.52E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
1184	458390.6	3768401	0.001683	8.63E-05	0.00E+00	1.68E-03	8.63E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
1185	458387	3768410	0.001701	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.10E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
1186	458462.5	3768223	0.001147	5.88E-05	0.00E+00	1.15E-03	5.88E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
1187	458462.4	3768214	0.001125	5.77E-05	0.00E+00	1.12E-03	5.77E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
1188	458462.3	3768204	0.001102	5.65E-05	0.00E+00	1.10E-03	5.65E-05	0.00E+00	3.30E-04	1.02E-05	0.00E+00	1.25E-04	3.28E-06	0.00E+00
1189	458462.2	3768194	0.00108	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.23E-04	9.95E-06	0.00E+00	1.23E-04	3.21E-06	0.00E+00
1190	458462.1	3768185	0.001057	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.75E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
1191	458461.9	3768175	0.001035	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.54E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
1192	458461.8	3768165	0.001012	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.33E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
1193	458461.7	3768156	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.12E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
1194	458461.6	3768146	0.000966	4.95E-05	0.00E+00	9.66E-04	4.95E-05	0.00E+00	2.89E-04	8.90E-06	0.00E+00	1.10E-04	2.87E-06	0.00E+00
1195	458461.5	3768136	0.000942	4.83E-05	0.00E+00	9.42E-04	4.83E-05	0.00E+00	2.82E-04	8.69E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
1196	458461.4	3768127	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.74E-06	0.00E+00
1197	458461.3	3768117	0.000896	4.59E-05	0.00E+00	8.96E-04	4.59E-05	0.00E+00	2.68E-04	8.26E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
1198	458461.2	3768107	0.000873	4.48E-05	0.00E+00	8.73E-04	4.48E-05	0.00E+00	2.61E-04	8.05E-06	0.00E+00	9.90E-05	2.60E-06	0.00E+00
1199	458461	3768098	0.000851	4.36E-05	0.00E+00	8.51E-04	4.36E-05	0.00E+00	2.55E-04	7.85E-06	0.00E+00	9.66E-05	2.53E-06	0.00E+00
1200	458460.9	3768088	0.000831	4.26E-05	0.00E+00	8.31E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.42E-05	2.47E-06	0.00E+00
1201	458460.8	3768079	0.00081	4.15E-05	0.00E+00	8.10E-04	4.15E-05	0.00E+00	2.43E-04	7.47E-06	0.00E+00	9.19E-05	2.41E-06	0.00E+00
1202	458460.7	3768069	0.000788	4.04E-05	0.00E+00	7.88E-04	4.04E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.94E-05	2.35E-06	0.00E+00
1203	458460.6	3768059	0.000767	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
1204	458460.5	3768050	0.000746	3.82E-05	0.00E+00	7.46E-04	3.82E-05	0.00E+00	2.23E-04	6.87E-06	0.00E+00	8.46E-05	2.22E-06	0.00E+00
1205	458460.4	3768040	0.000725	3.72E-05	0.00E+00	7.25E-04	3.72E-05	0.00E+00	2.17E-04	6.68E-06	0.00E+00	8.22E-05	2.16E-06	0.00E+00
1206	458460.3	3768030	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.99E-05	2.10E-06	0.00E+00
1207	458460.1	3768021	0.000684	3.51E-05	0.00E+00	6.84E-04	3.51E-05	0.00E+00	2.05E-04	6.31E-06	0.00E+00	7.76E-05	2.04E-06	0.00E+00
1208	458498.9	3768232	0.001084	5.56E-05	0.00E+00	1.08E-03	5.56E-05	0.00E+00	3.25E-04	9.99E-06	0.00E+00	1.23E-04	3.23E-06	0.00E+00
1209	458495.3	3768241	0.00111	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.33E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
1210	458491.7	3768249	0.001137	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
1211	458488.1	3768258	0.001164	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
1212	458484.5	3768267	0.00119	6.10E-05	0.00E+00	1.19E-03	6.10E-05	0.00E+00	3.56E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
1213	458480.9	3768276	0.001217	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
1214	458477.3	3768285	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
1215	458473.6	3768294	0.001269	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
1216	458470	3768303	0.001295	6.64E-05	0.00E+00	1.30E-03	6.64E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
1217	458466.4	3768312	0.001321	6.77E-05	0.00E+00	1.32E-03	6.77E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
1218	458462.8	3768321	0.001347	6.90E-05	0.00E+00	1.35E-03	6.90E-05	0.00E+00	4.03E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
1219	458459.2	3768330	0.001372	7.03E-05	0.00E+00	1.37E-03	7.03E-05	0.00E+00	4.11E-04	1.26E-05	0.00E+00	1.56E-04	4.08E-06	0.00E+00
1220	458455.6	3768339	0.001397	7.16E-05	0.00E+00	1.40E-03	7.16E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.58E-04	4.16E-06	0.00E+00
1221	458452	3768348	0.001421	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
1222	458448.4	3768357	0.001444	7.40E-05	0.00E+00	1.44E-03	7.40E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
1223	458444.8	3768366	0.001467	7.52E-05	0.00E+00	1.47E-03	7.52E-05	0.00E+00	4.39E-04	1.35E-05	0.00E+00	1.66E-04	4.37E-06	0.00E+00
1224	458441.2	3768375	0.001489	7.63E-05	0.00E+00	1.49E-03	7.63E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
1225	458437.6	3768383	0.00151	7.74E-05	0.00E+00	1.51E-03	7.74E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
1226	458434	3768392	0.001531	7.85E-05	0.00E+00	1.53E-03	7.85E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.74E-04	4.55E-06	0.00E+00
1227	458430.4	3768401	0.00155	7.95E-05	0.00E+00	1.55E-03	7.95E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
1228	458426.8	3768410	0.001569	8.04E-05	0.00E+00	1.57E-03	8.04E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
1229	458502.5	3768223	0.001058	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.75E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
1230	458502.4	3768213	0.001037	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.56E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
1231	458502.3	3768203	0.001017	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.05E-04	9.37E-06	0.00E+00	1.15E-04	3.03E-06	0.00E+00
1232	458502.2	3768194	0.000996	5.11E-05	0.00E+00	9.96E-04	5.11E-05	0.00E+00	2.98E-04	9.19E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
1233	458502.1	3768184	0.000976	5.01E-05	0.00E+00	9.76E-04	5.01E-05	0.00E+00	2.92E-04	9.00E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
1234	458501.9	3768174	0.000957	4.90E-05	0.00E+00	9.57E-04	4.90E-05	0.00E+00	2.86E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
1235	458501.8	3768165	0.000936	4.80E-05	0.00E+00	9.36E-04	4.80E-05	0.00E+00	2.80E-04	8.63E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
1236	458501.7	3768155	0.000916	4.69E-05	0.00E+00	9.16E-04	4.69E-05	0.00E+00	2.74E-04	8.44E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
1237	458501.6	3768146	0.000895	4.59E-05	0.00E+00	8.95E-04	4.59E-05	0.00E+00	2.68E-04	8.25E-06	0.00E+00	1.02E-04	2.66E-06	0.00E+00
1238	458501.5	3768136	0.000874	4.48E-05	0.00E+00	8.74E-04	4.48E-05	0.00E+00	2.62E-04	8.06E-06	0.00E+00	9.92E-05	2.60E-06	0.00E+00
1239	458501.4	3768126	0.000853	4.37E-05	0.00E+00	8.53E-04	4.37E-05	0.00E+00	2.56E-04	7.86E-06	0.00E+00	9.68E-05	2.54E-06	0.00E+00
1240	458501.3	3768117	0.000832	4.27E-05	0.00E+00	8.32E-04	4.27E-05	0.00E+00	2.49E-04	7.67E-06	0.00E+00	9.44E-05	2.48E-06	0.00E+00
1241	458501.2	3768107	0.000812	4.16E-05	0.00E+00	8.12E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.21E-05	2.42E-06	0.00E+00
1242	458501	3768097	0.000792	4.06E-05	0.00E+00	7.92E-04	4.06E-05	0.00E+00	2.37E-04	7.30E-06	0.00E+00	8.98E-05	2.36E-06	0.00E+00
1243	458500.9	3768088	0.000771	3.95E-05	0.00E+00	7.71E-04	3.95E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
1244	458500.8	3768078	0.000751	3.85E-05	0.00E+00	7.51E-04	3.85E-05	0.00E+00	2.25E-04	6.93E-06	0.00E+00	8.52E-05	2.24E-06	0.00E+00
1245	458500.7	3768068	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00

1246	458500.6	3768059	0.000715	3.67E-05	0.00E+00	7.15E-04	3.67E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
1247	458500.5	3768049	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.91E-05	2.08E-06	0.00E+00
1248	458500.4	3768040	0.000679	3.48E-05	0.00E+00	6.79E-04	3.48E-05	0.00E+00	2.03E-04	6.26E-06	0.00E+00	7.71E-05	2.02E-06	0.00E+00
1249	458500.3	3768030	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
1250	458500.1	3768020	0.000643	3.30E-05	0.00E+00	6.43E-04	3.30E-05	0.00E+00	1.93E-04	5.92E-06	0.00E+00	7.29E-05	1.91E-06	0.00E+00
1251	457700.2	3768020	0.008512	4.36E-04	0.00E+00	8.51E-03	4.36E-04	0.00E+00	2.55E-03	7.85E-05	0.00E+00	9.66E-04	2.53E-05	0.00E+00
1252	457690.2	3768020	0.009545	4.89E-04	0.00E+00	9.54E-03	4.89E-04	0.00E+00	2.86E-03	8.80E-05	0.00E+00	1.08E-03	2.84E-05	0.00E+00
1253	457680.3	3768020	0.010659	5.46E-04	0.00E+00	1.07E-02	5.46E-04	0.00E+00	3.19E-03	9.83E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
1254	457670.3	3768020	0.0118	6.05E-04	0.00E+00	1.18E-02	6.05E-04	0.00E+00	3.53E-03	1.09E-04	0.00E+00	1.34E-03	3.51E-05	0.00E+00
1255	457660.4	3768020	0.012902	6.61E-04	0.00E+00	1.29E-02	6.61E-04	0.00E+00	3.86E-03	1.19E-04	0.00E+00	1.46E-03	3.84E-05	0.00E+00
1256	457650.4	3768020	0.013929	7.14E-04	0.00E+00	1.39E-02	7.14E-04	0.00E+00	4.17E-03	1.28E-04	0.00E+00	1.58E-03	4.14E-05	0.00E+00
1257	457640.5	3768020	0.014859	7.62E-04	0.00E+00	1.49E-02	7.62E-04	0.00E+00	4.45E-03	1.37E-04	0.00E+00	1.69E-03	4.42E-05	0.00E+00
1258	457630.5	3768020	0.015693	8.05E-04	0.00E+00	1.57E-02	8.05E-04	0.00E+00	4.70E-03	1.45E-04	0.00E+00	1.78E-03	4.67E-05	0.00E+00
1259	457620.6	3768020	0.016448	8.43E-04	0.00E+00	1.64E-02	8.43E-04	0.00E+00	4.93E-03	1.52E-04	0.00E+00	1.87E-03	4.89E-05	0.00E+00
1260	457610.6	3768020	0.017115	8.77E-04	0.00E+00	1.71E-02	8.77E-04	0.00E+00	5.13E-03	1.58E-04	0.00E+00	1.94E-03	5.09E-05	0.00E+00
1261	457600.7	3768020	0.017685	9.07E-04	0.00E+00	1.77E-02	9.07E-04	0.00E+00	5.30E-03	1.63E-04	0.00E+00	2.01E-03	5.26E-05	0.00E+00
1262	457590.7	3768020	0.018176	9.32E-04	0.00E+00	1.82E-02	9.32E-04	0.00E+00	5.44E-03	1.68E-04	0.00E+00	2.06E-03	5.41E-05	0.00E+00
1263	457580.8	3768020	0.018605	9.54E-04	0.00E+00	1.86E-02	9.54E-04	0.00E+00	5.57E-03	1.72E-04	0.00E+00	2.11E-03	5.54E-05	0.00E+00
1264	457570.8	3768020	0.018972	9.73E-04	0.00E+00	1.90E-02	9.73E-04	0.00E+00	5.68E-03	1.75E-04	0.00E+00	2.15E-03	5.65E-05	0.00E+00
1265	457560.9	3768020	0.019288	9.89E-04	0.00E+00	1.93E-02	9.89E-04	0.00E+00	5.78E-03	1.78E-04	0.00E+00	2.19E-03	5.74E-05	0.00E+00
1266	457550.9	3768020	0.019555	1.00E-03	0.00E+00	1.96E-02	1.00E-03	0.00E+00	5.86E-03	1.80E-04	0.00E+00	2.22E-03	5.82E-05	0.00E+00
1267	457541	3768020	0.01978	1.01E-03	0.00E+00	1.98E-02	1.01E-03	0.00E+00	5.92E-03	1.82E-04	0.00E+00	2.24E-03	5.89E-05	0.00E+00
1268	457531	3768020	0.019937	1.02E-03	0.00E+00	1.99E-02	1.02E-03	0.00E+00	5.97E-03	1.84E-04	0.00E+00	2.26E-03	5.93E-05	0.00E+00
1269	457521.1	3768020	0.02005	1.03E-03	0.00E+00	2.01E-02	1.03E-03	0.00E+00	6.01E-03	1.85E-04	0.00E+00	2.27E-03	5.97E-05	0.00E+00
1270	457511.1	3768020	0.020124	1.03E-03	0.00E+00	2.01E-02	1.03E-03	0.00E+00	6.03E-03	1.86E-04	0.00E+00	2.28E-03	5.99E-05	0.00E+00
1271	457501.2	3768020	0.020195	1.04E-03	0.00E+00	2.02E-02	1.04E-03	0.00E+00	6.05E-03	1.86E-04	0.00E+00	2.29E-03	6.01E-05	0.00E+00
1272	457491.3	3768020	0.020244	1.04E-03	0.00E+00	2.02E-02	1.04E-03	0.00E+00	6.06E-03	1.87E-04	0.00E+00	2.30E-03	6.02E-05	0.00E+00
1273	457481.3	3768020	0.020261	1.04E-03	0.00E+00	2.03E-02	1.04E-03	0.00E+00	6.07E-03	1.87E-04	0.00E+00	2.30E-03	6.03E-05	0.00E+00
1274	457471.4	3768020	0.020259	1.04E-03	0.00E+00	2.03E-02	1.04E-03	0.00E+00	6.07E-03	1.87E-04	0.00E+00	2.30E-03	6.03E-05	0.00E+00
1275	457461.4	3768020	0.020228	1.04E-03	0.00E+00	2.02E-02	1.04E-03	0.00E+00	6.06E-03	1.86E-04	0.00E+00	2.29E-03	6.02E-05	0.00E+00
1276	457451.5	3768020	0.020173	1.03E-03	0.00E+00	2.02E-02	1.03E-03	0.00E+00	6.04E-03	1.86E-04	0.00E+00	2.29E-03	6.00E-05	0.00E+00
1277	457441.5	3768020	0.020047	1.03E-03	0.00E+00	2.00E-02	1.03E-03	0.00E+00	6.00E-03	1.85E-04	0.00E+00	2.27E-03	5.97E-05	0.00E+00
1278	457431.6	3768020	0.019881	1.02E-03	0.00E+00	1.99E-02	1.02E-03	0.00E+00	5.95E-03	1.83E-04	0.00E+00	2.26E-03	5.92E-05	0.00E+00
1279	457421.6	3768020	0.019678	1.01E-03	0.00E+00	1.97E-02	1.01E-03	0.00E+00	5.89E-03	1.81E-04	0.00E+00	2.23E-03	5.86E-05	0.00E+00
1280	457411.7	3768020	0.019487	9.99E-04	0.00E+00	1.95E-02	9.99E-04	0.00E+00	5.84E-03	1.80E-04	0.00E+00	2.21E-03	5.80E-05	0.00E+00
1281	457401.7	3768020	0.01927	9.88E-04	0.00E+00	1.93E-02	9.88E-04	0.00E+00	5.77E-03	1.78E-04	0.00E+00	2.19E-03	5.73E-05	0.00E+00
1282	457391.8	3768020	0.019004	9.74E-04	0.00E+00	1.90E-02	9.74E-04	0.00E+00	5.69E-03	1.75E-04	0.00E+00	2.16E-03	5.66E-05	0.00E+00
1283	457381.8	3768020	0.01868	9.58E-04	0.00E+00	1.87E-02	9.58E-04	0.00E+00	5.59E-03	1.72E-04	0.00E+00	2.12E-03	5.56E-05	0.00E+00
1284	457371.9	3768020	0.018285	9.37E-04	0.00E+00	1.83E-02	9.37E-04	0.00E+00	5.48E-03	1.69E-04	0.00E+00	2.07E-03	5.44E-05	0.00E+00
1285	457361.9	3768020	0.017806	9.13E-04	0.00E+00	1.78E-02	9.13E-04	0.00E+00	5.33E-03	1.64E-04	0.00E+00	2.02E-03	5.30E-05	0.00E+00
1286	457352	3768020	0.017226	8.83E-04	0.00E+00	1.72E-02	8.83E-04	0.00E+00	5.16E-03	1.59E-04	0.00E+00	1.95E-03	5.13E-05	0.00E+00
1287	457342	3768020	0.016513	8.47E-04	0.00E+00	1.65E-02	8.47E-04	0.00E+00	4.95E-03	1.52E-04	0.00E+00	1.87E-03	4.91E-05	0.00E+00
1288	457332.1	3768020	0.015651	8.02E-04	0.00E+00	1.57E-02	8.02E-04	0.00E+00	4.69E-03	1.44E-04	0.00E+00	1.78E-03	4.66E-05	0.00E+00
1289	457690.2	3768010	0.008357	4.28E-04	0.00E+00	8.36E-03	4.28E-04	0.00E+00	2.50E-03	7.70E-05	0.00E+00	9.48E-04	2.49E-05	0.00E+00
1290	457680.3	3768010	0.009244	4.74E-04	0.00E+00	9.24E-03	4.74E-04	0.00E+00	2.77E-03	8.52E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
1291	457670.3	3768010	0.010163	5.21E-04	0.00E+00	1.02E-02	5.21E-04	0.00E+00	3.04E-03	9.37E-05	0.00E+00	1.15E-03	3.02E-05	0.00E+00
1292	457660.4	3768010	0.011073	5.68E-04	0.00E+00	1.11E-02	5.68E-04	0.00E+00	3.32E-03	1.02E-04	0.00E+00	1.26E-03	3.29E-05	0.00E+00
1293	457650.4	3768010	0.011949	6.13E-04	0.00E+00	1.19E-02	6.13E-04	0.00E+00	3.58E-03	1.10E-04	0.00E+00	1.36E-03	3.56E-05	0.00E+00
1294	457640.5	3768010	0.012764	6.54E-04	0.00E+00	1.28E-02	6.54E-04	0.00E+00	3.82E-03	1.18E-04	0.00E+00	1.45E-03	3.80E-05	0.00E+00
1295	457630.5	3768010	0.013512	6.93E-04	0.00E+00	1.35E-02	6.93E-04	0.00E+00	4.05E-03	1.25E-04	0.00E+00	1.53E-03	4.02E-05	0.00E+00
1296	457620.6	3768010	0.014196	7.28E-04	0.00E+00	1.42E-02	7.28E-04	0.00E+00	4.25E-03	1.31E-04	0.00E+00	1.61E-03	4.22E-05	0.00E+00
1297	457610.6	3768010	0.014803	7.59E-04	0.00E+00	1.48E-02	7.59E-04	0.00E+00	4.43E-03	1.36E-04	0.00E+00	1.68E-03	4.40E-05	0.00E+00
1298	457600.7	3768010	0.015339	7.86E-04	0.00E+00	1.53E-02	7.86E-04	0.00E+00	4.59E-03	1.41E-04	0.00E+00	1.74E-03	4.56E-05	0.00E+00
1299	457590.7	3768010	0.01581	8.11E-04	0.00E+00	1.58E-02	8.11E-04	0.00E+00	4.74E-03	1.46E-04	0.00E+00	1.79E-03	4.70E-05	0.00E+00
1300	457580.8	3768010	0.016226	8.32E-04	0.00E+00	1.62E-02	8.32E-04	0.00E+00	4.86E-03	1.50E-04	0.00E+00	1.84E-03	4.83E-05	0.00E+00
1301	457570.8	3768010	0.016587	8.50E-04	0.00E+00	1.66E-02	8.50E-04	0.00E+00	4.97E-03	1.53E-04	0.00E+00	1.88E-03	4.94E-05	0.00E+00
1302	457560.9	3768010	0.016899	8.66E-04	0.00E+00	1.69E-02	8.66E-04	0.00E+00	5.06E-03	1.56E-04	0.00E+00	1.92E-03	5.03E-05	0.00E+00
1303	457550.9	3768010	0.017162	8.80E-04	0.00E+00	1.72E-02	8.80E-04	0.00E+00	5.14E-03	1.58E-04	0.00E+00	1.95E-03	5.11E-05	0.00E+00
1304	457541	3768010	0.017389	8.91E-04	0.00E+00	1.74E-02	8.91E-04	0.00E+00	5.21E-03	1.60E-04	0.00E+00	1.97E-03	5.17E-05	0.00E+00
1305	457531	3768010	0.017562	9.00E-04	0.00E+00	1.76E-02	9.00E-04	0.00E+00	5.26E-03	1.62E-04	0.00E+00	1.99E-03	5.23E-05	0.00E+00
1306	457521.1	3768010	0.017698	9.07E-04	0.00E+00	1.77E-02	9.07E-04	0.00E+00	5.30E-03	1.63E-04	0.00E+00	2.01E-03	5.27E-05	0.00E+00
1307	457511.1	3768010	0.017799	9.13E-04	0.00E+00	1.78E-02	9.13E-04	0.00E+00	5.33E-03	1.64E-04	0.00E+00	2.02E-03	5.30E-05	0.00E+00
1308	457501.2	3768010	0.017893	9.17E-04	0.00E+00	1.79E-02	9.17E-04	0.00E+00	5.36E-03	1.65E-04	0.00E+00	2.03E-03	5.32E-05	0.00E+00
1309	457491.2	3768010	0.017966	9.21E-04	0.00E+00	1.80E-02	9.21E-04	0.00E+00	5.38E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
1310	457481.3	3768010	0.018011	9.23E-04	0.00E+00	1.80E-02	9.23E-04	0.00E+00	5.39E-03	1.66E-04	0.00E+00	2.04E-03	5.36E-05	0.00E+00
1311	457471.3	3768010	0.018024	9.24E-04	0.00E+00	1.80E-02	9.24E-04	0.00E+00	5.40E-03	1.66E-04	0.00E+00	2.04E-03	5.36E-05	0.00E+00
1312	457461.4	3768010	0.018008	9.23E-04	0.00E+00	1.80E-02	9.23E-04	0.00E+00	5.39E-03	1.66E-04	0.00E+00	2.04E-03	5.36E-05	0.00E+00
1313	457451.4	3768010	0.017969	9.21E-04	0.00E+00	1.80E-02	9.21E-04	0.00E+00	5.38E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
1314	457441.5	3768010	0.017882	9.17E-04	0.00E+00	1.79E-02	9.17E-04	0.00E+00	5.36E-03	1.65E-04	0.00E+00	2.03E-03	5.32E-05	0.00E+00
1315	457431.5	3768010	0.017761	9.11E-04	0.00E+00	1.78E-02	9.11E-04	0.00E+00	5.32E-03	1.64E-04	0.00E+00	2.02E-03	5.29E-05	0.00E+00
1316	457421.6	3768010	0.017609	9.03E-04	0.00E+00	1.76E-02	9.03E-04	0.00E+00	5.27E-03	1.62E-04	0.00E+00	2.00E-03	5.24E-05	0.00E+00
1317	457411.6	3768010	0.017457	8.95E-04	0.00E+00	1.75E-02	8.95E-04	0.00E+00	5.23E-03	1.61E-04	0.00E+00	1.98E-03	5.19E-05	0.00E+00
1318	457401.7	3768010	0.017278	8.86E-04	0.00E+00	1.73E-02	8.86E-04	0.00E+00	5.18E-03	1.59E-04	0.00E+00	1.96E-03	5.14E-05	0.00E+00
1319	457391.7	3768010	0.017056	8.74E-04	0.00E+00	1.71E-02	8.74E-04	0.00E+00	5.11E-03	1.57E-04	0.00E+00	1.94E-03	5.08E-05	0.00E+00
1320	457381.8	3768010	0.016786	8.61E-04	0.00E+00	1.68E-02	8.61E-04	0.00E+00	5.03E-03	1.55E-04	0.00E+00	1.90E-03	5.00E-05	0.00E+00
1321	457371.8	3768010	0.016454	8.44E-04	0.00E+00	1.65E-02	8.44E-04	0.00E+00	4.93E-03	1.52E-04	0.00E+00	1.87E-03	4.90E-05	0.00E+00
1322	457361.9	3768010	0.01605	8.23E-04	0.00E+00	1.61E-02	8.23E-04	0.00E+00	4.81E-03	1.48E-04	0.00E+00	1.82E-03	4.78E-05	0.00E+00
1323	457352	3768010	0.015552	7.97E-04	0.00E+00	1.56E-02	7.97E-04	0.00E+00	4.66E-03	1.43E-04	0.00E+00	1.76E-03	4.63E-05	0.00E+00
1324	457342	3768010	0.014955	7.67E-04	0.00E+00	1.50E-02	7.67E-04	0.00E+00	4.48E-03	1.38E-04	0.00E+00	1.70E-03	4.45E-05	0.00E+00
1325	457332.1	3768010	0.014249	7.31E-04	0.00E+00	1.42E-02	7.31E-04	0.00E+00	4.27E-03	1.31E-04	0.00E+00	1.62E-03	4.24E-05	0.00E+00
1326	457690.2	3768000	0.007428	3.81E-04	0.00E+00	7.43E-03	3.81E-04	0.00E+00	2.22E-03	6.85E-05	0.00E+00	8.43E-04	2.21E-05	0.00E+00
1327	457680.3	3768000	0.008156	4.18E-04	0.00E+00	8.16E-03	4.18E-04	0.00E+00	2.44E-03	7.52E-05	0.00E+00	9.25E-04	2.43E-05	0.00E+00
1328	457670.3	3768000	0.008916	4.57E-04	0.00E+00	8.92E-03	4.57E-04	0.00E+00	2.67E-03	8.22E-05	0.00E+00	1.01E-03	2.65E-05	0.00E+00
1329	457660.4	3768000	0.009679	4.96E-04	0.00E+00	9.68E-03	4.96E-04	0.00E+00	2.90E-03	8.92E-05	0.00E+00	1.10E-03	2.88E-05	0.00E+00
1330	457650.4	3768000	0.010433	5.35E-04	0.00E+00	1.04E-02	5.35E-04	0.00E+00	3.12E-03	9.62E-05	0.00E+00	1.18E-03	3.10E-05	0.00E+00
1331	457640.5	3768000	0.011149	5.72E-04	0.00E+00	1.11E-02	5.72E-04	0.00E+00	3.34E-03	1.03E-04	0.00E+00	1.26E-03	3.32E-05	0.00E+00
1332	457630.5	3768000	0.011818	6.06E-04	0.00E+00	1.18E-02	6.06E-04	0.00E+00	3.54E-03	1.09E-04	0.00E+00	1.34E-03	3.52E-05	0.00E+00
1333	457620.6	3768000	0.012428	6.37E-04	0.00E+00	1.24E-02	6.37E-04	0.00E+00	3.72E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
1334	457610.6	3768000	0.012984	6.66E-04	0.00E+00	1.30E-02	6.66E-04	0.00E+00	3.89E-03	1.20E-04	0.00E+00	1.47E-03	3.86E-05	0.00E+00
1335	457600.7	3768000	0.013486	6.91E-04	0.00E+00	1.35E-02	6.91E-04	0.00E+00	4.04E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
1336	457590.7	3768000	0.013933	7.14E-04	0.00E+00	1.39E-02	7.14E-04	0.00E+00	4.17E-03	1.28E-04	0.00E+00	1.58E-03	4.15E-05	0.00E+00
1337	457580.8	3768000	0.014332	7.35E-04	0.00E+00	1.43E-02	7.35E-04	0.00E+00	4.29E-03	1.32E-04	0.00E+00	1.63E-03	4.27E-05	0.00E+00
1338	457570.8	3768000	0.014685	7.53E-04	0.00E+00	1.47E-02	7.53E-04	0.00E+00	4.40E-03	1.35E-04	0.00E+00	1.67E-03	4.37E-05	0.00E+00
1339	457560.9	3768000	0.014987	7.68E-04	0.00E+00	1.50E-02	7.68E-04	0.00E+00	4.49E-03	1.38E-04	0.00E+00	1.70E-03	4.46E-05	0.00E+00
1340	457550.9	3768000	0.015246	7.82E-04	0.00E+00	1.52E-02	7.82E-04	0.00E+00	4.57E-03	1.41E-04	0.00E+00	1.73E-03	4.54E-05	0.00E+00
1341	457541	3768000	0.015469	7.93E-04	0.00E+00	1.55E-02	7.93E-04	0.00E+00	4.63E-03	1.43E-04	0.00E+00	1.76E-03	4.60E-05	0.00E+00

1342	457531	3768000	0.015656	8.03E-04	0.00E+00	1.57E-02	8.03E-04	0.00E+00	4.69E-03	1.44E-04	0.00E+00	1.78E-03	4.66E-05	0.00E+00
1343	457521.1	3768000	0.015814	8.11E-04	0.00E+00	1.58E-02	8.11E-04	0.00E+00	4.74E-03	1.46E-04	0.00E+00	1.79E-03	4.71E-05	0.00E+00
1344	457511.1	3768000	0.015941	8.17E-04	0.00E+00	1.59E-02	8.17E-04	0.00E+00	4.77E-03	1.47E-04	0.00E+00	1.81E-03	4.74E-05	0.00E+00
1345	457501.2	3768000	0.016051	8.23E-04	0.00E+00	1.61E-02	8.23E-04	0.00E+00	4.81E-03	1.48E-04	0.00E+00	1.82E-03	4.78E-05	0.00E+00
1346	457491.2	3768000	0.016138	8.27E-04	0.00E+00	1.61E-02	8.27E-04	0.00E+00	4.83E-03	1.49E-04	0.00E+00	1.83E-03	4.80E-05	0.00E+00
1347	457481.3	3768000	0.016198	8.30E-04	0.00E+00	1.62E-02	8.30E-04	0.00E+00	4.85E-03	1.49E-04	0.00E+00	1.84E-03	4.82E-05	0.00E+00
1348	457471.3	3768000	0.016221	8.32E-04	0.00E+00	1.62E-02	8.32E-04	0.00E+00	4.86E-03	1.50E-04	0.00E+00	1.84E-03	4.83E-05	0.00E+00
1349	457461.4	3768000	0.016216	8.31E-04	0.00E+00	1.62E-02	8.31E-04	0.00E+00	4.86E-03	1.49E-04	0.00E+00	1.84E-03	4.83E-05	0.00E+00
1350	457451.4	3768000	0.016187	8.30E-04	0.00E+00	1.62E-02	8.30E-04	0.00E+00	4.85E-03	1.49E-04	0.00E+00	1.84E-03	4.82E-05	0.00E+00
1351	457441.5	3768000	0.016134	8.27E-04	0.00E+00	1.61E-02	8.27E-04	0.00E+00	4.83E-03	1.49E-04	0.00E+00	1.83E-03	4.80E-05	0.00E+00
1352	457431.5	3768000	0.016057	8.23E-04	0.00E+00	1.61E-02	8.23E-04	0.00E+00	4.81E-03	1.48E-04	0.00E+00	1.82E-03	4.78E-05	0.00E+00
1353	457421.6	3768000	0.015951	8.18E-04	0.00E+00	1.60E-02	8.18E-04	0.00E+00	4.78E-03	1.47E-04	0.00E+00	1.81E-03	4.75E-05	0.00E+00
1354	457411.6	3768000	0.015831	8.12E-04	0.00E+00	1.58E-02	8.12E-04	0.00E+00	4.74E-03	1.46E-04	0.00E+00	1.80E-03	4.71E-05	0.00E+00
1355	457401.7	3768000	0.015682	8.04E-04	0.00E+00	1.57E-02	8.04E-04	0.00E+00	4.70E-03	1.45E-04	0.00E+00	1.78E-03	4.67E-05	0.00E+00
1356	457391.7	3768000	0.015493	7.94E-04	0.00E+00	1.55E-02	7.94E-04	0.00E+00	4.64E-03	1.43E-04	0.00E+00	1.76E-03	4.61E-05	0.00E+00
1357	457381.8	3768000	0.015261	7.82E-04	0.00E+00	1.53E-02	7.82E-04	0.00E+00	4.57E-03	1.41E-04	0.00E+00	1.73E-03	4.54E-05	0.00E+00
1358	457371.8	3768000	0.014975	7.68E-04	0.00E+00	1.50E-02	7.68E-04	0.00E+00	4.49E-03	1.38E-04	0.00E+00	1.70E-03	4.46E-05	0.00E+00
1359	457361.9	3768000	0.014628	7.50E-04	0.00E+00	1.46E-02	7.50E-04	0.00E+00	4.38E-03	1.35E-04	0.00E+00	1.66E-03	4.35E-05	0.00E+00
1360	457351.9	3768000	0.014193	7.28E-04	0.00E+00	1.42E-02	7.28E-04	0.00E+00	4.25E-03	1.31E-04	0.00E+00	1.61E-03	4.22E-05	0.00E+00
1361	457342	3768000	0.013678	7.01E-04	0.00E+00	1.37E-02	7.01E-04	0.00E+00	4.10E-03	1.26E-04	0.00E+00	1.55E-03	4.07E-05	0.00E+00
1362	457332	3768000	0.013085	6.71E-04	0.00E+00	1.31E-02	6.71E-04	0.00E+00	3.92E-03	1.21E-04	0.00E+00	1.48E-03	3.89E-05	0.00E+00
1363	457690.2	3767990	0.006682	3.43E-04	0.00E+00	6.68E-03	3.43E-04	0.00E+00	2.00E-03	6.16E-05	0.00E+00	7.58E-04	1.99E-05	0.00E+00
1364	457680.2	3767990	0.007293	3.74E-04	0.00E+00	7.29E-03	3.74E-04	0.00E+00	2.18E-03	6.72E-05	0.00E+00	8.27E-04	2.17E-05	0.00E+00
1365	457670.3	3767990	0.007934	4.07E-04	0.00E+00	7.93E-03	4.07E-04	0.00E+00	2.38E-03	7.31E-05	0.00E+00	9.00E-04	2.36E-05	0.00E+00
1366	457660.3	3767990	0.008584	4.40E-04	0.00E+00	8.58E-03	4.40E-04	0.00E+00	2.57E-03	7.91E-05	0.00E+00	9.74E-04	2.55E-05	0.00E+00
1367	457650.4	3767990	0.009236	4.74E-04	0.00E+00	9.24E-03	4.74E-04	0.00E+00	2.77E-03	8.51E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
1368	457640.4	3767990	0.009866	5.06E-04	0.00E+00	9.87E-03	5.06E-04	0.00E+00	2.95E-03	9.09E-05	0.00E+00	1.12E-03	2.94E-05	0.00E+00
1369	457630.5	3767990	0.010457	5.36E-04	0.00E+00	1.05E-02	5.36E-04	0.00E+00	3.13E-03	9.64E-05	0.00E+00	1.19E-03	3.11E-05	0.00E+00
1370	457620.5	3767990	0.011008	5.64E-04	0.00E+00	1.10E-02	5.64E-04	0.00E+00	3.30E-03	1.01E-04	0.00E+00	1.25E-03	3.28E-05	0.00E+00
1371	457610.6	3767990	0.011518	5.90E-04	0.00E+00	1.15E-02	5.90E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
1372	457600.6	3767990	0.011985	6.14E-04	0.00E+00	1.20E-02	6.14E-04	0.00E+00	3.59E-03	1.10E-04	0.00E+00	1.36E-03	3.57E-05	0.00E+00
1373	457590.7	3767990	0.012407	6.36E-04	0.00E+00	1.24E-02	6.36E-04	0.00E+00	3.72E-03	1.14E-04	0.00E+00	1.41E-03	3.69E-05	0.00E+00
1374	457580.7	3767990	0.012789	6.56E-04	0.00E+00	1.28E-02	6.56E-04	0.00E+00	3.83E-03	1.18E-04	0.00E+00	1.45E-03	3.81E-05	0.00E+00
1375	457570.8	3767990	0.01313	6.73E-04	0.00E+00	1.31E-02	6.73E-04	0.00E+00	3.93E-03	1.21E-04	0.00E+00	1.49E-03	3.91E-05	0.00E+00
1376	457560.8	3767990	0.013422	6.88E-04	0.00E+00	1.34E-02	6.88E-04	0.00E+00	4.02E-03	1.24E-04	0.00E+00	1.52E-03	3.99E-05	0.00E+00
1377	457550.9	3767990	0.013675	7.01E-04	0.00E+00	1.37E-02	7.01E-04	0.00E+00	4.10E-03	1.26E-04	0.00E+00	1.55E-03	4.07E-05	0.00E+00
1378	457540.9	3767990	0.013892	7.12E-04	0.00E+00	1.39E-02	7.12E-04	0.00E+00	4.16E-03	1.28E-04	0.00E+00	1.58E-03	4.13E-05	0.00E+00
1379	457531	3767990	0.01409	7.22E-04	0.00E+00	1.41E-02	7.22E-04	0.00E+00	4.22E-03	1.30E-04	0.00E+00	1.60E-03	4.19E-05	0.00E+00
1380	457521.1	3767990	0.014263	7.31E-04	0.00E+00	1.43E-02	7.31E-04	0.00E+00	4.27E-03	1.31E-04	0.00E+00	1.62E-03	4.24E-05	0.00E+00
1381	457511.1	3767990	0.014408	7.39E-04	0.00E+00	1.44E-02	7.39E-04	0.00E+00	4.32E-03	1.33E-04	0.00E+00	1.63E-03	4.29E-05	0.00E+00
1382	457501.2	3767990	0.014528	7.45E-04	0.00E+00	1.45E-02	7.45E-04	0.00E+00	4.35E-03	1.34E-04	0.00E+00	1.65E-03	4.32E-05	0.00E+00
1383	457491.2	3767990	0.014625	7.50E-04	0.00E+00	1.46E-02	7.50E-04	0.00E+00	4.38E-03	1.35E-04	0.00E+00	1.66E-03	4.35E-05	0.00E+00
1384	457481.3	3767990	0.014697	7.53E-04	0.00E+00	1.47E-02	7.53E-04	0.00E+00	4.40E-03	1.35E-04	0.00E+00	1.67E-03	4.37E-05	0.00E+00
1385	457471.3	3767990	0.014731	7.55E-04	0.00E+00	1.47E-02	7.55E-04	0.00E+00	4.41E-03	1.36E-04	0.00E+00	1.67E-03	4.38E-05	0.00E+00
1386	457461.4	3767990	0.014734	7.55E-04	0.00E+00	1.47E-02	7.55E-04	0.00E+00	4.41E-03	1.36E-04	0.00E+00	1.67E-03	4.38E-05	0.00E+00
1387	457451.4	3767990	0.014715	7.54E-04	0.00E+00	1.47E-02	7.54E-04	0.00E+00	4.41E-03	1.36E-04	0.00E+00	1.67E-03	4.38E-05	0.00E+00
1388	457441.5	3767990	0.014688	7.53E-04	0.00E+00	1.47E-02	7.53E-04	0.00E+00	4.40E-03	1.35E-04	0.00E+00	1.67E-03	4.37E-05	0.00E+00
1389	457431.5	3767990	0.014643	7.51E-04	0.00E+00	1.46E-02	7.51E-04	0.00E+00	4.39E-03	1.35E-04	0.00E+00	1.66E-03	4.36E-05	0.00E+00
1390	457421.6	3767990	0.014571	7.47E-04	0.00E+00	1.46E-02	7.47E-04	0.00E+00	4.36E-03	1.34E-04	0.00E+00	1.65E-03	4.34E-05	0.00E+00
1391	457411.6	3767990	0.014476	7.42E-04	0.00E+00	1.45E-02	7.42E-04	0.00E+00	4.34E-03	1.33E-04	0.00E+00	1.64E-03	4.31E-05	0.00E+00
1392	457401.7	3767990	0.01435	7.36E-04	0.00E+00	1.44E-02	7.36E-04	0.00E+00	4.30E-03	1.32E-04	0.00E+00	1.63E-03	4.27E-05	0.00E+00
1393	457391.7	3767990	0.014189	7.27E-04	0.00E+00	1.42E-02	7.27E-04	0.00E+00	4.25E-03	1.31E-04	0.00E+00	1.61E-03	4.22E-05	0.00E+00
1394	457381.8	3767990	0.013988	7.17E-04	0.00E+00	1.40E-02	7.17E-04	0.00E+00	4.19E-03	1.29E-04	0.00E+00	1.59E-03	4.16E-05	0.00E+00
1395	457371.8	3767990	0.013739	7.04E-04	0.00E+00	1.37E-02	7.04E-04	0.00E+00	4.12E-03	1.27E-04	0.00E+00	1.56E-03	4.09E-05	0.00E+00
1396	457361.9	3767990	0.013438	6.89E-04	0.00E+00	1.34E-02	6.89E-04	0.00E+00	4.02E-03	1.24E-04	0.00E+00	1.52E-03	4.00E-05	0.00E+00
1397	457351.9	3767990	0.013059	6.70E-04	0.00E+00	1.31E-02	6.70E-04	0.00E+00	3.91E-03	1.20E-04	0.00E+00	1.48E-03	3.89E-05	0.00E+00
1398	457342	3767990	0.012613	6.47E-04	0.00E+00	1.26E-02	6.47E-04	0.00E+00	3.78E-03	1.16E-04	0.00E+00	1.43E-03	3.75E-05	0.00E+00
1399	457332	3767990	0.012105	6.21E-04	0.00E+00	1.21E-02	6.21E-04	0.00E+00	3.63E-03	1.12E-04	0.00E+00	1.37E-03	3.60E-05	0.00E+00
1400	457746.5	3768020	0.005565	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.31E-04	1.66E-05	0.00E+00
1401	457700.1	3767980	0.005582	2.86E-04	0.00E+00	5.58E-03	2.86E-04	0.00E+00	1.67E-03	5.15E-05	0.00E+00	6.33E-04	1.66E-05	0.00E+00
1402	457690.2	3767980	0.006069	3.11E-04	0.00E+00	6.07E-03	3.11E-04	0.00E+00	1.82E-03	5.59E-05	0.00E+00	6.89E-04	1.81E-05	0.00E+00
1403	457680.2	3767980	0.006592	3.38E-04	0.00E+00	6.59E-03	3.38E-04	0.00E+00	1.97E-03	6.08E-05	0.00E+00	7.48E-04	1.96E-05	0.00E+00
1404	457670.3	3767980	0.00714	3.66E-04	0.00E+00	7.14E-03	3.66E-04	0.00E+00	2.14E-03	6.58E-05	0.00E+00	8.10E-04	2.12E-05	0.00E+00
1405	457660.3	3767980	0.0077	3.95E-04	0.00E+00	7.70E-03	3.95E-04	0.00E+00	2.31E-03	7.10E-05	0.00E+00	8.74E-04	2.29E-05	0.00E+00
1406	457650.4	3767980	0.008268	4.24E-04	0.00E+00	8.27E-03	4.24E-04	0.00E+00	2.48E-03	7.62E-05	0.00E+00	9.38E-04	2.46E-05	0.00E+00
1407	457640.4	3767980	0.008821	4.52E-04	0.00E+00	8.82E-03	4.52E-04	0.00E+00	2.64E-03	8.13E-05	0.00E+00	1.00E-03	2.62E-05	0.00E+00
1408	457630.5	3767980	0.009349	4.79E-04	0.00E+00	9.35E-03	4.79E-04	0.00E+00	2.80E-03	8.62E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
1409	457620.5	3767980	0.009848	5.05E-04	0.00E+00	9.85E-03	5.05E-04	0.00E+00	2.95E-03	9.08E-05	0.00E+00	1.12E-03	2.93E-05	0.00E+00
1410	457610.6	3767980	0.010315	5.29E-04	0.00E+00	1.03E-02	5.29E-04	0.00E+00	3.09E-03	9.51E-05	0.00E+00	1.17E-03	3.07E-05	0.00E+00
1411	457600.6	3767980	0.010748	5.51E-04	0.00E+00	1.07E-02	5.51E-04	0.00E+00	3.22E-03	9.91E-05	0.00E+00	1.22E-03	3.20E-05	0.00E+00
1412	457590.7	3767980	0.011145	5.71E-04	0.00E+00	1.11E-02	5.71E-04	0.00E+00	3.34E-03	1.03E-04	0.00E+00	1.26E-03	3.32E-05	0.00E+00
1413	457580.7	3767980	0.011508	5.90E-04	0.00E+00	1.15E-02	5.90E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.42E-05	0.00E+00
1414	457570.8	3767980	0.011834	6.07E-04	0.00E+00	1.18E-02	6.07E-04	0.00E+00	3.54E-03	1.09E-04	0.00E+00	1.34E-03	3.52E-05	0.00E+00
1415	457560.8	3767980	0.012119	6.21E-04	0.00E+00	1.21E-02	6.21E-04	0.00E+00	3.63E-03	1.12E-04	0.00E+00	1.37E-03	3.61E-05	0.00E+00
1416	457550.9	3767980	0.012368	6.34E-04	0.00E+00	1.24E-02	6.34E-04	0.00E+00	3.70E-03	1.14E-04	0.00E+00	1.40E-03	3.68E-05	0.00E+00
1417	457540.9	3767980	0.012584	6.45E-04	0.00E+00	1.26E-02	6.45E-04	0.00E+00	3.77E-03	1.16E-04	0.00E+00	1.43E-03	3.74E-05	0.00E+00
1418	457531	3767980	0.012785	6.55E-04	0.00E+00	1.28E-02	6.55E-04	0.00E+00	3.83E-03	1.18E-04	0.00E+00	1.45E-03	3.80E-05	0.00E+00
1419	457521	3767980	0.012963	6.65E-04	0.00E+00	1.30E-02	6.65E-04	0.00E+00	3.88E-03	1.19E-04	0.00E+00	1.47E-03	3.86E-05	0.00E+00
1420	457511.1	3767980	0.013116	6.72E-04	0.00E+00	1.31E-02	6.72E-04	0.00E+00	3.93E-03	1.21E-04	0.00E+00	1.49E-03	3.90E-05	0.00E+00
1421	457501.1	3767980	0.01324	6.79E-04	0.00E+00	1.32E-02	6.79E-04	0.00E+00	3.97E-03	1.22E-04	0.00E+00	1.50E-03	3.94E-05	0.00E+00
1422	457491.2	3767980	0.013341	6.84E-04	0.00E+00	1.33E-02	6.84E-04	0.00E+00	4.00E-03	1.23E-04	0.00E+00	1.51E-03	3.97E-05	0.00E+00
1423	457481.2	3767980	0.013418	6.88E-04	0.00E+00	1.34E-02	6.88E-04	0.00E+00	4.02E-03	1.24E-04	0.00E+00	1.52E-03	3.99E-05	0.00E+00
1424	457471.3	3767980	0.013465	6.90E-04	0.00E+00	1.35E-02	6.90E-04	0.00E+00	4.03E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
1425	457461.3	3767980	0.013486	6.91E-04	0.00E+00	1.35E-02	6.91E-04	0.00E+00	4.04E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
1426	457451.4	3767980	0.013485	6.91E-04	0.00E+00	1.35E-02	6.91E-04	0.00E+00	4.04E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
1427	457441.4	3767980	0.013476	6.91E-04	0.00E+00	1.35E-02	6.91E-04	0.00E+00	4.04E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
1428	457431.5	3767980	0.01345	6.90E-04	0.00E+00	1.35E-02	6.90E-04	0.00E+00	4.03E-03	1.24E-04	0.00E+00	1.53E-03	4.00E-05	0.00E+00
1429	457421.5	3767980	0.013398	6.87E-04	0.00E+00	1.34E-02	6.87E-04	0.00E+00	4.01E-03	1.24E-04	0.00E+00	1.52E-03	3.99E-05	0.00E+00
1430	457411.6	3767980	0.013321	6.83E-04	0.00E+00	1.33E-02	6.83E-04	0.00E+00	3.99E-03	1.23E-04	0.00E+00	1.51E-03	3.96E-05	0.00E+00
1431	457401.6	3767980	0.013215	6.78E-04	0.00E+00	1.32E-02	6.78E-04	0.00E+00	3.96E-03	1.22E-04	0.00E+00	1.50E-03	3.93E-05	0.00E+00
1432	457391.7	3767980	0.013077	6.70E-04	0.00E+00	1.31E-02	6.70E-04	0.00E+00	3.92E-03	1.21E-04	0.00E+00	1.48E-03	3.89E-05	0.00E+00
1433	457381.8	3767980	0.012899	6.61E-04	0.00E+00	1.29E-02	6.61E-04	0.00E+00	3.86E-03	1.19E-04	0.00E+00	1.46E-03	3.84E-05	0.00E+00
1434	457371.8	3767980	0.012678	6.50E-04	0.00E+00	1.27E-02	6.50E-04	0.00E+00	3.80E-03	1.17E-04	0.00E+00	1.44E-03	3.77E-05	0.00E+00
1435	457361.9	3767980	0.012412	6.36E-04	0.00E+00	1.24E-02	6.36E-04	0.00E+00	3.72E-03	1.14E-04	0.00E+00	1.41E-03	3.69E-05	0.00E+00
1436	457351.9	3767980	0.012085	6.20E-04	0.00E+00	1.21E-02	6.20E-04	0.00E+00	3.62E-03	1.11E-04	0.00E+00	1.37E-03	3.60E-05	0.00E+00
1437	457342	3767980	0.011705	6.00E-04	0.00E+00	1.17E-02	6.00E-04	0.00E+00	3.51E-03	1.08E-04	0.00E+00	1.33E-03	3.48E-05	0.00E+00

1438	457332	3767980	0.011273	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
1439	457745.9	3767995	0.004429	2.27E-04	0.00E+00	4.43E-03	2.27E-04	0.00E+00	1.33E-03	4.08E-05	0.00E+00	5.03E-04	1.32E-05	0.00E+00
1440	457749.5	3768004	0.004644	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.28E-05	0.00E+00	5.27E-04	1.38E-05	0.00E+00
1441	457756.6	3768021	0.005196	2.66E-04	0.00E+00	5.20E-03	2.66E-04	0.00E+00	1.56E-03	4.79E-05	0.00E+00	5.90E-04	1.55E-05	0.00E+00
1442	457700.1	3767970	0.005132	2.63E-04	0.00E+00	5.13E-03	2.63E-04	0.00E+00	1.54E-03	4.73E-05	0.00E+00	5.82E-04	1.53E-05	0.00E+00
1443	457690.2	3767970	0.005555	2.85E-04	0.00E+00	5.56E-03	2.85E-04	0.00E+00	1.66E-03	5.12E-05	0.00E+00	6.30E-04	1.65E-05	0.00E+00
1444	457680.2	3767970	0.006009	3.08E-04	0.00E+00	6.01E-03	3.08E-04	0.00E+00	1.80E-03	5.54E-05	0.00E+00	6.82E-04	1.79E-05	0.00E+00
1445	457670.3	3767970	0.006485	3.32E-04	0.00E+00	6.48E-03	3.32E-04	0.00E+00	1.94E-03	5.98E-05	0.00E+00	7.36E-04	1.93E-05	0.00E+00
1446	457660.3	3767970	0.006973	3.57E-04	0.00E+00	6.97E-03	3.57E-04	0.00E+00	2.09E-03	6.43E-05	0.00E+00	7.91E-04	2.07E-05	0.00E+00
1447	457650.4	3767970	0.007471	3.83E-04	0.00E+00	7.47E-03	3.83E-04	0.00E+00	2.24E-03	6.89E-05	0.00E+00	8.48E-04	2.22E-05	0.00E+00
1448	457640.4	3767970	0.007961	4.08E-04	0.00E+00	7.96E-03	4.08E-04	0.00E+00	2.38E-03	7.34E-05	0.00E+00	9.03E-04	2.37E-05	0.00E+00
1449	457630.5	3767970	0.008433	4.32E-04	0.00E+00	8.43E-03	4.32E-04	0.00E+00	2.53E-03	7.77E-05	0.00E+00	9.57E-04	2.51E-05	0.00E+00
1450	457620.5	3767970	0.008885	4.56E-04	0.00E+00	8.88E-03	4.56E-04	0.00E+00	2.66E-03	8.19E-05	0.00E+00	1.01E-03	2.64E-05	0.00E+00
1451	457610.6	3767970	0.009313	4.77E-04	0.00E+00	9.31E-03	4.77E-04	0.00E+00	2.79E-03	8.58E-05	0.00E+00	1.06E-03	2.77E-05	0.00E+00
1452	457600.6	3767970	0.009714	4.98E-04	0.00E+00	9.71E-03	4.98E-04	0.00E+00	2.91E-03	8.95E-05	0.00E+00	1.10E-03	2.89E-05	0.00E+00
1453	457590.7	3767970	0.010085	5.17E-04	0.00E+00	1.01E-02	5.17E-04	0.00E+00	3.02E-03	9.30E-05	0.00E+00	1.14E-03	3.00E-05	0.00E+00
1454	457580.7	3767970	0.010428	5.35E-04	0.00E+00	1.04E-02	5.35E-04	0.00E+00	3.12E-03	9.61E-05	0.00E+00	1.18E-03	3.10E-05	0.00E+00
1455	457570.8	3767970	0.01074	5.51E-04	0.00E+00	1.07E-02	5.51E-04	0.00E+00	3.22E-03	9.90E-05	0.00E+00	1.22E-03	3.20E-05	0.00E+00
1456	457560.8	3767970	0.011016	5.65E-04	0.00E+00	1.10E-02	5.65E-04	0.00E+00	3.30E-03	1.02E-04	0.00E+00	1.25E-03	3.28E-05	0.00E+00
1457	457550.9	3767970	0.011261	5.77E-04	0.00E+00	1.13E-02	5.77E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
1458	457540.9	3767970	0.011476	5.88E-04	0.00E+00	1.15E-02	5.88E-04	0.00E+00	3.44E-03	1.06E-04	0.00E+00	1.30E-03	3.42E-05	0.00E+00
1459	457531	3767970	0.011677	5.99E-04	0.00E+00	1.17E-02	5.99E-04	0.00E+00	3.50E-03	1.08E-04	0.00E+00	1.32E-03	3.47E-05	0.00E+00
1460	457521	3767970	0.011855	6.08E-04	0.00E+00	1.19E-02	6.08E-04	0.00E+00	3.55E-03	1.09E-04	0.00E+00	1.35E-03	3.53E-05	0.00E+00
1461	457511.1	3767970	0.012011	6.16E-04	0.00E+00	1.20E-02	6.16E-04	0.00E+00	3.60E-03	1.11E-04	0.00E+00	1.36E-03	3.57E-05	0.00E+00
1462	457501.1	3767970	0.012135	6.22E-04	0.00E+00	1.21E-02	6.22E-04	0.00E+00	3.63E-03	1.12E-04	0.00E+00	1.38E-03	3.61E-05	0.00E+00
1463	457491.2	3767970	0.012236	6.27E-04	0.00E+00	1.22E-02	6.27E-04	0.00E+00	3.66E-03	1.13E-04	0.00E+00	1.39E-03	3.64E-05	0.00E+00
1464	457481.2	3767970	0.012315	6.31E-04	0.00E+00	1.23E-02	6.31E-04	0.00E+00	3.69E-03	1.14E-04	0.00E+00	1.40E-03	3.66E-05	0.00E+00
1465	457471.3	3767970	0.012376	6.34E-04	0.00E+00	1.24E-02	6.34E-04	0.00E+00	3.71E-03	1.14E-04	0.00E+00	1.40E-03	3.68E-05	0.00E+00
1466	457461.3	3767970	0.012415	6.36E-04	0.00E+00	1.24E-02	6.36E-04	0.00E+00	3.72E-03	1.14E-04	0.00E+00	1.41E-03	3.69E-05	0.00E+00
1467	457451.4	3767970	0.012433	6.37E-04	0.00E+00	1.24E-02	6.37E-04	0.00E+00	3.72E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
1468	457441.4	3767970	0.012438	6.38E-04	0.00E+00	1.24E-02	6.38E-04	0.00E+00	3.73E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
1469	457431.5	3767970	0.012423	6.37E-04	0.00E+00	1.24E-02	6.37E-04	0.00E+00	3.72E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
1470	457421.5	3767970	0.012385	6.35E-04	0.00E+00	1.24E-02	6.35E-04	0.00E+00	3.71E-03	1.14E-04	0.00E+00	1.41E-03	3.69E-05	0.00E+00
1471	457411.6	3767970	0.012323	6.32E-04	0.00E+00	1.23E-02	6.32E-04	0.00E+00	3.69E-03	1.14E-04	0.00E+00	1.40E-03	3.67E-05	0.00E+00
1472	457401.6	3767970	0.012234	6.27E-04	0.00E+00	1.22E-02	6.27E-04	0.00E+00	3.66E-03	1.13E-04	0.00E+00	1.39E-03	3.64E-05	0.00E+00
1473	457391.7	3767970	0.012114	6.21E-04	0.00E+00	1.21E-02	6.21E-04	0.00E+00	3.63E-03	1.12E-04	0.00E+00	1.37E-03	3.60E-05	0.00E+00
1474	457381.7	3767970	0.011954	6.13E-04	0.00E+00	1.20E-02	6.13E-04	0.00E+00	3.58E-03	1.10E-04	0.00E+00	1.36E-03	3.56E-05	0.00E+00
1475	457371.8	3767970	0.011755	6.03E-04	0.00E+00	1.18E-02	6.03E-04	0.00E+00	3.52E-03	1.08E-04	0.00E+00	1.33E-03	3.50E-05	0.00E+00
1476	457361.8	3767970	0.011517	5.90E-04	0.00E+00	1.15E-02	5.90E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
1477	457351.9	3767970	0.011237	5.76E-04	0.00E+00	1.12E-02	5.76E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.27E-03	3.34E-05	0.00E+00
1478	457341.9	3767970	0.010916	5.60E-04	0.00E+00	1.09E-02	5.60E-04	0.00E+00	3.27E-03	1.01E-04	0.00E+00	1.24E-03	3.25E-05	0.00E+00
1479	457332	3767970	0.010553	5.41E-04	0.00E+00	1.06E-02	5.41E-04	0.00E+00	3.16E-03	9.73E-05	0.00E+00	1.20E-03	3.14E-05	0.00E+00
1480	457752.8	3767988	0.003989	2.04E-04	0.00E+00	3.99E-03	2.04E-04	0.00E+00	1.19E-03	3.68E-05	0.00E+00	4.53E-04	1.19E-05	0.00E+00
1481	457759.8	3768004	0.004366	2.24E-04	0.00E+00	4.37E-03	2.24E-04	0.00E+00	1.31E-03	4.02E-05	0.00E+00	4.95E-04	1.30E-05	0.00E+00
1482	457690.1	3767960	0.00512	2.62E-04	0.00E+00	5.12E-03	2.62E-04	0.00E+00	1.53E-03	4.72E-05	0.00E+00	5.81E-04	1.52E-05	0.00E+00
1483	457680.2	3767960	0.005518	2.83E-04	0.00E+00	5.52E-03	2.83E-04	0.00E+00	1.65E-03	5.09E-05	0.00E+00	6.26E-04	1.64E-05	0.00E+00
1484	457670.2	3767960	0.005935	3.04E-04	0.00E+00	5.94E-03	3.04E-04	0.00E+00	1.78E-03	5.47E-05	0.00E+00	6.73E-04	1.77E-05	0.00E+00
1485	457660.3	3767960	0.006365	3.26E-04	0.00E+00	6.36E-03	3.26E-04	0.00E+00	1.91E-03	5.87E-05	0.00E+00	7.22E-04	1.89E-05	0.00E+00
1486	457650.3	3767960	0.006805	3.49E-04	0.00E+00	6.80E-03	3.49E-04	0.00E+00	2.04E-03	6.27E-05	0.00E+00	7.72E-04	2.02E-05	0.00E+00
1487	457640.4	3767960	0.007241	3.71E-04	0.00E+00	7.24E-03	3.71E-04	0.00E+00	2.17E-03	6.67E-05	0.00E+00	8.21E-04	2.15E-05	0.00E+00
1488	457630.4	3767960	0.007665	3.93E-04	0.00E+00	7.67E-03	3.93E-04	0.00E+00	2.30E-03	7.07E-05	0.00E+00	8.70E-04	2.28E-05	0.00E+00
1489	457620.5	3767960	0.008075	4.14E-04	0.00E+00	8.07E-03	4.14E-04	0.00E+00	2.42E-03	7.44E-05	0.00E+00	9.16E-04	2.40E-05	0.00E+00
1490	457610.5	3767960	0.008467	4.34E-04	0.00E+00	8.47E-03	4.34E-04	0.00E+00	2.54E-03	7.81E-05	0.00E+00	9.61E-04	2.52E-05	0.00E+00
1491	457600.6	3767960	0.008838	4.53E-04	0.00E+00	8.84E-03	4.53E-04	0.00E+00	2.65E-03	8.15E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
1492	457590.6	3767960	0.009184	4.71E-04	0.00E+00	9.18E-03	4.71E-04	0.00E+00	2.75E-03	8.47E-05	0.00E+00	1.04E-03	2.73E-05	0.00E+00
1493	457580.7	3767960	0.009507	4.87E-04	0.00E+00	9.51E-03	4.87E-04	0.00E+00	2.85E-03	8.76E-05	0.00E+00	1.08E-03	2.83E-05	0.00E+00
1494	457570.7	3767960	0.009805	5.03E-04	0.00E+00	9.80E-03	5.03E-04	0.00E+00	2.94E-03	9.04E-05	0.00E+00	1.11E-03	2.92E-05	0.00E+00
1495	457560.8	3767960	0.01007	5.16E-04	0.00E+00	1.01E-02	5.16E-04	0.00E+00	3.02E-03	9.28E-05	0.00E+00	1.14E-03	3.00E-05	0.00E+00
1496	457550.9	3767960	0.010308	5.28E-04	0.00E+00	1.03E-02	5.28E-04	0.00E+00	3.09E-03	9.50E-05	0.00E+00	1.17E-03	3.07E-05	0.00E+00
1497	457540.9	3767960	0.010521	5.39E-04	0.00E+00	1.05E-02	5.39E-04	0.00E+00	3.15E-03	9.70E-05	0.00E+00	1.19E-03	3.13E-05	0.00E+00
1498	457531	3767960	0.010719	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.88E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
1499	457521	3767960	0.010897	5.59E-04	0.00E+00	1.09E-02	5.59E-04	0.00E+00	3.26E-03	1.00E-04	0.00E+00	1.24E-03	3.24E-05	0.00E+00
1500	457511.1	3767960	0.011053	5.67E-04	0.00E+00	1.11E-02	5.67E-04	0.00E+00	3.31E-03	1.02E-04	0.00E+00	1.25E-03	3.29E-05	0.00E+00
1501	457501.1	3767960	0.011177	5.73E-04	0.00E+00	1.12E-02	5.73E-04	0.00E+00	3.35E-03	1.03E-04	0.00E+00	1.27E-03	3.33E-05	0.00E+00
1502	457491.2	3767960	0.011279	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.36E-05	0.00E+00
1503	457481.2	3767960	0.011358	5.82E-04	0.00E+00	1.14E-02	5.82E-04	0.00E+00	3.40E-03	1.05E-04	0.00E+00	1.29E-03	3.38E-05	0.00E+00
1504	457471.3	3767960	0.011429	5.86E-04	0.00E+00	1.14E-02	5.86E-04	0.00E+00	3.42E-03	1.05E-04	0.00E+00	1.30E-03	3.40E-05	0.00E+00
1505	457461.3	3767960	0.011482	5.89E-04	0.00E+00	1.15E-02	5.89E-04	0.00E+00	3.44E-03	1.06E-04	0.00E+00	1.30E-03	3.42E-05	0.00E+00
1506	457451.4	3767960	0.011515	5.90E-04	0.00E+00	1.15E-02	5.90E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
1507	457441.4	3767960	0.01153	5.91E-04	0.00E+00	1.15E-02	5.91E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
1508	457431.5	3767960	0.011525	5.91E-04	0.00E+00	1.15E-02	5.91E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
1509	457421.5	3767960	0.011498	5.89E-04	0.00E+00	1.15E-02	5.89E-04	0.00E+00	3.44E-03	1.06E-04	0.00E+00	1.30E-03	3.42E-05	0.00E+00
1510	457411.6	3767960	0.011448	5.87E-04	0.00E+00	1.14E-02	5.87E-04	0.00E+00	3.43E-03	1.06E-04	0.00E+00	1.30E-03	3.41E-05	0.00E+00
1511	457401.6	3767960	0.011374	5.83E-04	0.00E+00	1.14E-02	5.83E-04	0.00E+00	3.41E-03	1.05E-04	0.00E+00	1.29E-03	3.38E-05	0.00E+00
1512	457391.7	3767960	0.011271	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
1513	457381.7	3767960	0.011128	5.70E-04	0.00E+00	1.11E-02	5.70E-04	0.00E+00	3.33E-03	1.03E-04	0.00E+00	1.26E-03	3.31E-05	0.00E+00
1514	457371.8	3767960	0.010948	5.61E-04	0.00E+00	1.09E-02	5.61E-04	0.00E+00	3.28E-03	1.01E-04	0.00E+00	1.24E-03	3.26E-05	0.00E+00
1515	457361.8	3767960	0.010734	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.90E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
1516	457351.9	3767960	0.010495	5.38E-04	0.00E+00	1.05E-02	5.38E-04	0.00E+00	3.14E-03	9.67E-05	0.00E+00	1.19E-03	3.12E-05	0.00E+00
1517	457341.9	3767960	0.010222	5.24E-04	0.00E+00	1.02E-02	5.24E-04	0.00E+00	3.06E-03	9.42E-05	0.00E+00	1.16E-03	3.04E-05	0.00E+00
1518	457332	3767960	0.009914	5.08E-04	0.00E+00	9.91E-03	5.08E-04	0.00E+00	2.97E-03	9.14E-05	0.00E+00	1.12E-03	2.95E-05	0.00E+00
1519	457759.8	3767981	0.00362	1.86E-04	0.00E+00	3.62E-03	1.86E-04	0.00E+00	1.08E-03	3.34E-05	0.00E+00	4.11E-04	1.08E-05	0.00E+00
1520	457766.6	3767997	0.00393	2.01E-04	0.00E+00	3.93E-03	2.01E-04	0.00E+00	1.18E-03	3.62E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
1521	457773.4	3768013	0.00434	2.23E-04	0.00E+00	4.34E-03	2.23E-04	0.00E+00	1.30E-03	4.00E-05	0.00E+00	4.92E-04	1.29E-05	0.00E+00
1522	457690.1	3767950	0.004746	2.43E-04	0.00E+00	4.75E-03	2.43E-04	0.00E+00	1.42E-03	4.37E-05	0.00E+00	5.38E-04	1.41E-05	0.00E+00
1523	457680.2	3767950	0.005098	2.61E-04	0.00E+00	5.10E-03	2.61E-04	0.00E+00	1.53E-03	4.70E-05	0.00E+00	5.78E-04	1.52E-05	0.00E+00
1524	457670.2	3767950	0.005469	2.80E-04	0.00E+00	5.47E-03	2.80E-04	0.00E+00	1.64E-03	5.04E-05	0.00E+00	6.20E-04	1.63E-05	0.00E+00
1525	457660.3	3767950	0.005851	3.00E-04	0.00E+00	5.85E-03	3.00E-04	0.00E+00	1.75E-03	5.39E-05	0.00E+00	6.64E-04	1.74E-05	0.00E+00
1526	457650.3	3767950	0.006243	3.20E-04	0.00E+00	6.24E-03	3.20E-04	0.00E+00	1.87E-03	5.75E-05	0.00E+00	7.08E-04	1.86E-05	0.00E+00
1527	457640.4	3767950	0.006631	3.40E-04	0.00E+00	6.63E-03	3.40E-04	0.00E+00	1.99E-03	6.11E-05	0.00E+00	7.52E-04	1.97E-05	0.00E+00
1528	457630.4	3767950	0.007014	3.60E-04	0.00E+00	7.01E-03	3.60E-04	0.00E+00	2.10E-03	6.47E-05	0.00E+00	7.96E-04	2.09E-05	0.00E+00
1529	457620.5	3767950	0.007386	3.79E-04	0.00E+00	7.39E-03	3.79E-04	0.00E+00	2.21E-03	6.81E-05	0.00E+00	8.38E-04	2.20E-05	0.00E+00
1530	457610.5	3767950	0.007746	3.97E-04	0.00E+00	7.75E-03	3.97E-04	0.00E+00	2.32E-03	7.14E-05	0.00E+00	8.79E-04	2.30E-05	0.00E+00
1531	457600.6	3767950	0.008088	4.15E-04	0.00E+00	8.09E-03	4.15E-04	0.00E+00	2.42E-03	7.46E-05	0.00E+00	9.18E-04	2.41E-05	0.00E+00
1532	457590.6	3767950	0.00841	4.31E-04	0.00E+00	8.41E-03	4.31E-04	0.00E+00	2.52E-03	7.75E-05	0.00E+00	9.54E-04	2.50E-05	0.00E+00
1533	457580.7	3767950	0.008712	4.47E-04	0.00E+00	8.71E-03	4.47E-04	0.00E+00	2.61E-03	8.03E-05	0.00E+00	9.88E-04	2.59E-05	0.00E+00

1534	457570.7	3767950	0.008992	4.61E-04	0.00E+00	8.99E-03	4.61E-04	0.00E+00	2.69E-03	8.29E-05	0.00E+00	1.02E-03	2.68E-05	0.00E+00
1535	457560.8	3767950	0.009248	4.74E-04	0.00E+00	9.25E-03	4.74E-04	0.00E+00	2.77E-03	8.52E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
1536	457550.8	3767950	0.009479	4.86E-04	0.00E+00	9.48E-03	4.86E-04	0.00E+00	2.84E-03	8.74E-05	0.00E+00	1.08E-03	2.82E-05	0.00E+00
1537	457540.9	3767950	0.009689	4.97E-04	0.00E+00	9.69E-03	4.97E-04	0.00E+00	2.90E-03	8.93E-05	0.00E+00	1.10E-03	2.88E-05	0.00E+00
1538	457530.9	3767950	0.009884	5.07E-04	0.00E+00	9.88E-03	5.07E-04	0.00E+00	2.96E-03	9.11E-05	0.00E+00	1.12E-03	2.94E-05	0.00E+00
1539	457521	3767950	0.010059	5.16E-04	0.00E+00	1.01E-02	5.16E-04	0.00E+00	3.01E-03	9.27E-05	0.00E+00	1.14E-03	2.99E-05	0.00E+00
1540	457511	3767950	0.010214	5.24E-04	0.00E+00	1.02E-02	5.24E-04	0.00E+00	3.06E-03	9.42E-05	0.00E+00	1.16E-03	3.04E-05	0.00E+00
1541	457501.1	3767950	0.01034	5.30E-04	0.00E+00	1.03E-02	5.30E-04	0.00E+00	3.10E-03	9.53E-05	0.00E+00	1.17E-03	3.08E-05	0.00E+00
1542	457491.1	3767950	0.010444	5.35E-04	0.00E+00	1.04E-02	5.35E-04	0.00E+00	3.13E-03	9.63E-05	0.00E+00	1.18E-03	3.11E-05	0.00E+00
1543	457481.2	3767950	0.010527	5.40E-04	0.00E+00	1.05E-02	5.40E-04	0.00E+00	3.15E-03	9.70E-05	0.00E+00	1.19E-03	3.13E-05	0.00E+00
1544	457471.2	3767950	0.010604	5.44E-04	0.00E+00	1.06E-02	5.44E-04	0.00E+00	3.18E-03	9.77E-05	0.00E+00	1.20E-03	3.16E-05	0.00E+00
1545	457461.3	3767950	0.010664	5.47E-04	0.00E+00	1.07E-02	5.47E-04	0.00E+00	3.19E-03	9.83E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
1546	457451.3	3767950	0.010706	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.87E-05	0.00E+00	1.21E-03	3.19E-05	0.00E+00
1547	457441.4	3767950	0.010728	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.89E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
1548	457431.4	3767950	0.010732	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.89E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
1549	457421.5	3767950	0.010714	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.88E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
1550	457411.6	3767950	0.010672	5.47E-04	0.00E+00	1.07E-02	5.47E-04	0.00E+00	3.20E-03	9.84E-05	0.00E+00	1.21E-03	3.18E-05	0.00E+00
1551	457401.6	3767950	0.010607	5.44E-04	0.00E+00	1.06E-02	5.44E-04	0.00E+00	3.18E-03	9.78E-05	0.00E+00	1.20E-03	3.16E-05	0.00E+00
1552	457391.7	3767950	0.010517	5.39E-04	0.00E+00	1.05E-02	5.39E-04	0.00E+00	3.15E-03	9.69E-05	0.00E+00	1.19E-03	3.13E-05	0.00E+00
1553	457381.7	3767950	0.010392	5.33E-04	0.00E+00	1.04E-02	5.33E-04	0.00E+00	3.11E-03	9.58E-05	0.00E+00	1.18E-03	3.09E-05	0.00E+00
1554	457371.8	3767950	0.010237	5.25E-04	0.00E+00	1.02E-02	5.25E-04	0.00E+00	3.07E-03	9.44E-05	0.00E+00	1.16E-03	3.05E-05	0.00E+00
1555	457361.8	3767950	0.010052	5.15E-04	0.00E+00	1.01E-02	5.15E-04	0.00E+00	3.01E-03	9.27E-05	0.00E+00	1.14E-03	2.99E-05	0.00E+00
1556	457351.9	3767950	0.009845	5.05E-04	0.00E+00	9.84E-03	5.05E-04	0.00E+00	2.95E-03	9.07E-05	0.00E+00	1.12E-03	2.93E-05	0.00E+00
1557	457341.9	3767950	0.009609	4.93E-04	0.00E+00	9.61E-03	4.93E-04	0.00E+00	2.88E-03	8.86E-05	0.00E+00	1.09E-03	2.86E-05	0.00E+00
1558	457332	3767950	0.009342	4.79E-04	0.00E+00	9.34E-03	4.79E-04	0.00E+00	2.80E-03	8.61E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
1559	457754.4	3767962	0.003295	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.87E-04	3.04E-05	0.00E+00	3.74E-04	9.80E-06	0.00E+00
1560	457767.2	3767975	0.003322	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.95E-04	3.06E-05	0.00E+00	3.77E-04	9.88E-06	0.00E+00
1561	457771.1	3767984	0.003464	1.78E-04	0.00E+00	3.46E-03	1.78E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
1562	457774.9	3767993	0.00363	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
1563	457778.7	3768002	0.003823	1.96E-04	0.00E+00	3.82E-03	1.96E-04	0.00E+00	1.14E-03	3.52E-05	0.00E+00	4.34E-04	1.14E-05	0.00E+00
1564	457782.5	3768011	0.004045	2.07E-04	0.00E+00	4.05E-03	2.07E-04	0.00E+00	1.21E-03	3.73E-05	0.00E+00	4.59E-04	1.20E-05	0.00E+00
1565	457786.4	3768020	0.004297	2.20E-04	0.00E+00	4.30E-03	2.20E-04	0.00E+00	1.29E-03	3.96E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
1566	457700.1	3767940	0.004124	2.11E-04	0.00E+00	4.12E-03	2.11E-04	0.00E+00	1.24E-03	3.80E-05	0.00E+00	4.68E-04	1.23E-05	0.00E+00
1567	457690.1	3767940	0.00442	2.27E-04	0.00E+00	4.42E-03	2.27E-04	0.00E+00	1.32E-03	4.07E-05	0.00E+00	5.02E-04	1.32E-05	0.00E+00
1568	457680.2	3767940	0.004737	2.43E-04	0.00E+00	4.74E-03	2.43E-04	0.00E+00	1.42E-03	4.37E-05	0.00E+00	5.37E-04	1.41E-05	0.00E+00
1569	457670.2	3767940	0.005069	2.60E-04	0.00E+00	5.07E-03	2.60E-04	0.00E+00	1.52E-03	4.67E-05	0.00E+00	5.75E-04	1.51E-05	0.00E+00
1570	457660.3	3767940	0.005411	2.77E-04	0.00E+00	5.41E-03	2.77E-04	0.00E+00	1.62E-03	4.99E-05	0.00E+00	6.14E-04	1.61E-05	0.00E+00
1571	457650.3	3767940	0.005759	2.95E-04	0.00E+00	5.76E-03	2.95E-04	0.00E+00	1.72E-03	5.31E-05	0.00E+00	6.53E-04	1.71E-05	0.00E+00
1572	457640.4	3767940	0.006108	3.13E-04	0.00E+00	6.11E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.93E-04	1.82E-05	0.00E+00
1573	457630.4	3767940	0.006455	3.31E-04	0.00E+00	6.45E-03	3.31E-04	0.00E+00	1.93E-03	5.95E-05	0.00E+00	7.32E-04	1.92E-05	0.00E+00
1574	457620.5	3767940	0.006794	3.48E-04	0.00E+00	6.79E-03	3.48E-04	0.00E+00	2.03E-03	6.26E-05	0.00E+00	7.71E-04	2.02E-05	0.00E+00
1575	457610.5	3767940	0.007124	3.65E-04	0.00E+00	7.12E-03	3.65E-04	0.00E+00	2.13E-03	6.57E-05	0.00E+00	8.08E-04	2.12E-05	0.00E+00
1576	457600.6	3767940	0.007441	3.81E-04	0.00E+00	7.44E-03	3.81E-04	0.00E+00	2.23E-03	6.86E-05	0.00E+00	8.44E-04	2.21E-05	0.00E+00
1577	457590.6	3767940	0.007739	3.97E-04	0.00E+00	7.74E-03	3.97E-04	0.00E+00	2.32E-03	7.13E-05	0.00E+00	8.78E-04	2.30E-05	0.00E+00
1578	457580.7	3767940	0.008021	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.10E-04	2.39E-05	0.00E+00
1579	457570.7	3767940	0.008283	4.25E-04	0.00E+00	8.28E-03	4.25E-04	0.00E+00	2.48E-03	7.64E-05	0.00E+00	9.40E-04	2.46E-05	0.00E+00
1580	457560.8	3767940	0.008528	4.37E-04	0.00E+00	8.53E-03	4.37E-04	0.00E+00	2.55E-03	7.86E-05	0.00E+00	9.68E-04	2.54E-05	0.00E+00
1581	457550.8	3767940	0.008753	4.49E-04	0.00E+00	8.75E-03	4.49E-04	0.00E+00	2.62E-03	8.07E-05	0.00E+00	9.93E-04	2.60E-05	0.00E+00
1582	457540.9	3767940	0.008959	4.59E-04	0.00E+00	8.96E-03	4.59E-04	0.00E+00	2.68E-03	8.26E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
1583	457530.9	3767940	0.009148	4.69E-04	0.00E+00	9.15E-03	4.69E-04	0.00E+00	2.74E-03	8.43E-05	0.00E+00	1.04E-03	2.72E-05	0.00E+00
1584	457521	3767940	0.009321	4.78E-04	0.00E+00	9.32E-03	4.78E-04	0.00E+00	2.79E-03	8.59E-05	0.00E+00	1.06E-03	2.77E-05	0.00E+00
1585	457511	3767940	0.009474	4.86E-04	0.00E+00	9.47E-03	4.86E-04	0.00E+00	2.84E-03	8.73E-05	0.00E+00	1.07E-03	2.82E-05	0.00E+00
1586	457501.1	3767940	0.009601	4.92E-04	0.00E+00	9.60E-03	4.92E-04	0.00E+00	2.88E-03	8.85E-05	0.00E+00	1.09E-03	2.86E-05	0.00E+00
1587	457491.1	3767940	0.009708	4.98E-04	0.00E+00	9.71E-03	4.98E-04	0.00E+00	2.91E-03	8.95E-05	0.00E+00	1.10E-03	2.89E-05	0.00E+00
1588	457481.2	3767940	0.009795	5.02E-04	0.00E+00	9.79E-03	5.02E-04	0.00E+00	2.93E-03	9.03E-05	0.00E+00	1.11E-03	2.91E-05	0.00E+00
1589	457471.2	3767940	0.009875	5.06E-04	0.00E+00	9.88E-03	5.06E-04	0.00E+00	2.96E-03	9.10E-05	0.00E+00	1.12E-03	2.94E-05	0.00E+00
1590	457461.3	3767940	0.009939	5.10E-04	0.00E+00	9.94E-03	5.10E-04	0.00E+00	2.98E-03	9.16E-05	0.00E+00	1.13E-03	2.96E-05	0.00E+00
1591	457451.3	3767940	0.009986	5.12E-04	0.00E+00	9.99E-03	5.12E-04	0.00E+00	2.99E-03	9.21E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
1592	457441.4	3767940	0.010014	5.13E-04	0.00E+00	1.00E-02	5.13E-04	0.00E+00	3.00E-03	9.23E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
1593	457431.4	3767940	0.010025	5.14E-04	0.00E+00	1.00E-02	5.14E-04	0.00E+00	3.00E-03	9.24E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
1594	457421.5	3767940	0.010015	5.13E-04	0.00E+00	1.00E-02	5.13E-04	0.00E+00	3.00E-03	9.23E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
1595	457411.5	3767940	0.00998	5.12E-04	0.00E+00	9.98E-03	5.12E-04	0.00E+00	2.99E-03	9.20E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
1596	457401.6	3767940	0.009921	5.09E-04	0.00E+00	9.92E-03	5.09E-04	0.00E+00	2.97E-03	9.15E-05	0.00E+00	1.13E-03	2.95E-05	0.00E+00
1597	457391.6	3767940	0.00984	5.04E-04	0.00E+00	9.84E-03	5.04E-04	0.00E+00	2.95E-03	9.07E-05	0.00E+00	1.12E-03	2.93E-05	0.00E+00
1598	457381.7	3767940	0.009735	4.99E-04	0.00E+00	9.74E-03	4.99E-04	0.00E+00	2.92E-03	8.97E-05	0.00E+00	1.10E-03	2.90E-05	0.00E+00
1599	457371.7	3767940	0.009604	4.92E-04	0.00E+00	9.60E-03	4.92E-04	0.00E+00	2.88E-03	8.85E-05	0.00E+00	1.09E-03	2.86E-05	0.00E+00
1600	457361.8	3767940	0.009447	4.84E-04	0.00E+00	9.45E-03	4.84E-04	0.00E+00	2.83E-03	8.71E-05	0.00E+00	1.07E-03	2.81E-05	0.00E+00
1601	457351.8	3767940	0.009267	4.75E-04	0.00E+00	9.27E-03	4.75E-04	0.00E+00	2.78E-03	8.54E-05	0.00E+00	1.05E-03	2.76E-05	0.00E+00
1602	457341.9	3767940	0.009061	4.65E-04	0.00E+00	9.06E-03	4.65E-04	0.00E+00	2.71E-03	8.35E-05	0.00E+00	1.03E-03	2.70E-05	0.00E+00
1603	457331.9	3767940	0.008827	4.53E-04	0.00E+00	8.83E-03	4.53E-04	0.00E+00	2.64E-03	8.14E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
1604	457752.8	3767951	0.003118	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.34E-04	2.87E-05	0.00E+00	3.54E-04	9.28E-06	0.00E+00
1605	457761.6	3767955	0.003025	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.06E-04	2.79E-05	0.00E+00	3.43E-04	9.00E-06	0.00E+00
1606	457774.2	3767967	0.003046	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.12E-04	2.81E-05	0.00E+00	3.46E-04	9.06E-06	0.00E+00
1607	457777.9	3767976	0.003165	1.62E-04	0.00E+00	3.17E-03	1.62E-04	0.00E+00	9.48E-04	2.92E-05	0.00E+00	3.59E-04	9.42E-06	0.00E+00
1608	457781.6	3767985	0.003302	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.89E-04	3.04E-05	0.00E+00	3.75E-04	9.83E-06	0.00E+00
1609	457785.3	3767993	0.003459	1.77E-04	0.00E+00	3.46E-03	1.77E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
1610	457789	3768002	0.003639	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
1611	457792.8	3768011	0.003843	1.97E-04	0.00E+00	3.84E-03	1.97E-04	0.00E+00	1.15E-03	3.54E-05	0.00E+00	4.36E-04	1.14E-05	0.00E+00
1612	457796.5	3768020	0.004072	2.09E-04	0.00E+00	4.07E-03	2.09E-04	0.00E+00	1.22E-03	3.75E-05	0.00E+00	4.62E-04	1.21E-05	0.00E+00
1613	457700	3767930	0.003869	1.98E-04	0.00E+00	3.87E-03	1.98E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.39E-04	1.15E-05	0.00E+00
1614	457690.1	3767930	0.004135	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
1615	457680.1	3767930	0.004421	2.27E-04	0.00E+00	4.42E-03	2.27E-04	0.00E+00	1.32E-03	4.07E-05	0.00E+00	5.02E-04	1.32E-05	0.00E+00
1616	457670.2	3767930	0.004719	2.42E-04	0.00E+00	4.72E-03	2.42E-04	0.00E+00	1.41E-03	4.35E-05	0.00E+00	5.35E-04	1.40E-05	0.00E+00
1617	457660.2	3767930	0.005026	2.58E-04	0.00E+00	5.03E-03	2.58E-04	0.00E+00	1.51E-03	4.63E-05	0.00E+00	5.70E-04	1.50E-05	0.00E+00
1618	457650.3	3767930	0.00534	2.74E-04	0.00E+00	5.34E-03	2.74E-04	0.00E+00	1.60E-03	4.92E-05	0.00E+00	6.06E-04	1.59E-05	0.00E+00
1619	457640.3	3767930	0.005655	2.90E-04	0.00E+00	5.66E-03	2.90E-04	0.00E+00	1.69E-03	5.21E-05	0.00E+00	6.42E-04	1.68E-05	0.00E+00
1620	457630.4	3767930	0.00597	3.06E-04	0.00E+00	5.97E-03	3.06E-04	0.00E+00	1.79E-03	5.50E-05	0.00E+00	6.77E-04	1.78E-05	0.00E+00
1621	457620.4	3767930	0.006281	3.22E-04	0.00E+00	6.28E-03	3.22E-04	0.00E+00	1.88E-03	5.79E-05	0.00E+00	7.13E-04	1.87E-05	0.00E+00
1622	457610.5	3767930	0.006584	3.38E-04	0.00E+00	6.58E-03	3.38E-04	0.00E+00	1.97E-03	6.07E-05	0.00E+00	7.47E-04	1.96E-05	0.00E+00
1623	457600.5	3767930	0.006877	3.53E-04	0.00E+00	6.88E-03	3.53E-04	0.00E+00	2.06E-03	6.34E-05	0.00E+00	7.80E-04	2.05E-05	0.00E+00
1624	457590.6	3767930	0.007153	3.67E-04	0.00E+00	7.15E-03	3.67E-04	0.00E+00	2.14E-03	6.59E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
1625	457580.7	3767930	0.007416	3.80E-04	0.00E+00	7.42E-03	3.80E-04	0.00E+00	2.22E-03	6.84E-05	0.00E+00	8.41E-04	2.21E-05	0.00E+00
1626	457570.7	3767930	0.007661	3.93E-04	0.00E+00	7.66E-03	3.93E-04	0.00E+00	2.29E-03	7.06E-05	0.00E+00	8.69E-04	2.28E-05	0.00E+00
1627	457560.8	3767930	0.007895	4.05E-04	0.00E+00	7.89E-03	4.05E-04	0.00E+00	2.36E-03	7.28E-05	0.00E+00	8.96E-04	2.35E-05	0.00E+00
1628	457550.8	3767930	0.008112	4.16E-04	0.00E+00	8.11E-03	4.16E-04	0.00E+00	2.43E-03	7.48E-05	0.00E+00	9.20E-04	2.41E-05	0.00E+00
1629	457540.9	3767930	0.008313	4.26E-04	0.00E+00	8.31E-03	4.26E-04	0.00E+00	2.49E-03	7.66E-05	0.00E+00	9.43E-04	2.47E-05	0.00E+00

1630	457530.9	3767930	0.008497	4.36E-04	0.00E+00	8.50E-03	4.36E-04	0.00E+00	2.55E-03	7.83E-05	0.00E+00	9.64E-04	2.53E-05	0.00E+00
1631	457521	3767930	0.008665	4.44E-04	0.00E+00	8.67E-03	4.44E-04	0.00E+00	2.60E-03	7.99E-05	0.00E+00	9.83E-04	2.58E-05	0.00E+00
1632	457511	3767930	0.008816	4.52E-04	0.00E+00	8.82E-03	4.52E-04	0.00E+00	2.64E-03	8.13E-05	0.00E+00	1.00E-03	2.62E-05	0.00E+00
1633	457501.1	3767930	0.008943	4.58E-04	0.00E+00	8.94E-03	4.58E-04	0.00E+00	2.68E-03	8.24E-05	0.00E+00	1.01E-03	2.66E-05	0.00E+00
1634	457491.1	3767930	0.00905	4.64E-04	0.00E+00	9.05E-03	4.64E-04	0.00E+00	2.71E-03	8.34E-05	0.00E+00	1.03E-03	2.69E-05	0.00E+00
1635	457481.2	3767930	0.00914	4.69E-04	0.00E+00	9.14E-03	4.69E-04	0.00E+00	2.74E-03	8.43E-05	0.00E+00	1.04E-03	2.72E-05	0.00E+00
1636	457471.2	3767930	0.009223	4.73E-04	0.00E+00	9.22E-03	4.73E-04	0.00E+00	2.76E-03	8.50E-05	0.00E+00	1.05E-03	2.74E-05	0.00E+00
1637	457461.3	3767930	0.00929	4.76E-04	0.00E+00	9.29E-03	4.76E-04	0.00E+00	2.78E-03	8.56E-05	0.00E+00	1.05E-03	2.76E-05	0.00E+00
1638	457451.3	3767930	0.009341	4.79E-04	0.00E+00	9.34E-03	4.79E-04	0.00E+00	2.80E-03	8.61E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
1639	457441.4	3767930	0.009374	4.81E-04	0.00E+00	9.37E-03	4.81E-04	0.00E+00	2.81E-03	8.64E-05	0.00E+00	1.06E-03	2.79E-05	0.00E+00
1640	457431.4	3767930	0.00939	4.81E-04	0.00E+00	9.39E-03	4.81E-04	0.00E+00	2.81E-03	8.66E-05	0.00E+00	1.07E-03	2.79E-05	0.00E+00
1641	457421.5	3767930	0.009387	4.81E-04	0.00E+00	9.39E-03	4.81E-04	0.00E+00	2.81E-03	8.65E-05	0.00E+00	1.07E-03	2.79E-05	0.00E+00
1642	457411.5	3767930	0.009358	4.80E-04	0.00E+00	9.36E-03	4.80E-04	0.00E+00	2.80E-03	8.63E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
1643	457401.6	3767930	0.009306	4.77E-04	0.00E+00	9.31E-03	4.77E-04	0.00E+00	2.79E-03	8.58E-05	0.00E+00	1.06E-03	2.77E-05	0.00E+00
1644	457391.6	3767930	0.009232	4.73E-04	0.00E+00	9.23E-03	4.73E-04	0.00E+00	2.77E-03	8.51E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
1645	457381.7	3767930	0.009145	4.69E-04	0.00E+00	9.14E-03	4.69E-04	0.00E+00	2.74E-03	8.43E-05	0.00E+00	1.04E-03	2.72E-05	0.00E+00
1646	457371.7	3767930	0.009035	4.63E-04	0.00E+00	9.04E-03	4.63E-04	0.00E+00	2.71E-03	8.33E-05	0.00E+00	1.03E-03	2.69E-05	0.00E+00
1647	457361.8	3767930	0.008902	4.56E-04	0.00E+00	8.90E-03	4.56E-04	0.00E+00	2.67E-03	8.21E-05	0.00E+00	1.01E-03	2.65E-05	0.00E+00
1648	457351.8	3767930	0.008745	4.48E-04	0.00E+00	8.74E-03	4.48E-04	0.00E+00	2.62E-03	8.06E-05	0.00E+00	9.92E-04	2.60E-05	0.00E+00
1649	457341.9	3767930	0.008564	4.39E-04	0.00E+00	8.56E-03	4.39E-04	0.00E+00	2.57E-03	7.89E-05	0.00E+00	9.72E-04	2.55E-05	0.00E+00
1650	457331.9	3767930	0.008359	4.29E-04	0.00E+00	8.36E-03	4.29E-04	0.00E+00	2.50E-03	7.71E-05	0.00E+00	9.48E-04	2.49E-05	0.00E+00
1651	457752.8	3767926	0.002723	1.40E-04	0.00E+00	2.72E-03	1.40E-04	0.00E+00	8.16E-04	2.51E-05	0.00E+00	3.09E-04	8.10E-06	0.00E+00
1652	457761.6	3767930	0.00264	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.91E-04	2.43E-05	0.00E+00	2.99E-04	7.85E-06	0.00E+00
1653	457770.4	3767933	0.002564	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.68E-04	2.36E-05	0.00E+00	2.91E-04	7.63E-06	0.00E+00
1654	457779.2	3767937	0.002496	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.48E-04	2.30E-05	0.00E+00	2.83E-04	7.43E-06	0.00E+00
1655	457791.7	3767949	0.002509	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.51E-04	2.31E-05	0.00E+00	2.85E-04	7.46E-06	0.00E+00
1656	457795.4	3767958	0.002592	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.76E-04	2.39E-05	0.00E+00	2.94E-04	7.71E-06	0.00E+00
1657	457799.2	3767967	0.002689	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.05E-04	2.48E-05	0.00E+00	3.05E-04	8.00E-06	0.00E+00
1658	457802.9	3767976	0.002799	1.44E-04	0.00E+00	2.80E-03	1.44E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.18E-04	8.33E-06	0.00E+00
1659	457806.6	3767984	0.002925	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.76E-04	2.70E-05	0.00E+00	3.32E-04	8.70E-06	0.00E+00
1660	457810.3	3767993	0.003065	1.57E-04	0.00E+00	3.06E-03	1.57E-04	0.00E+00	9.18E-04	2.83E-05	0.00E+00	3.48E-04	9.12E-06	0.00E+00
1661	457814	3768002	0.003221	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.65E-04	2.97E-05	0.00E+00	3.65E-04	9.59E-06	0.00E+00
1662	457817.7	3768011	0.003396	1.74E-04	0.00E+00	3.40E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
1663	457821.5	3768019	0.00359	1.84E-04	0.00E+00	3.59E-03	1.84E-04	0.00E+00	1.08E-03	3.31E-05	0.00E+00	4.07E-04	1.07E-05	0.00E+00
1664	457690.1	3767905	0.003559	1.82E-04	0.00E+00	3.56E-03	1.82E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
1665	457680.1	3767905	0.003782	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.49E-05	0.00E+00	4.29E-04	1.13E-05	0.00E+00
1666	457670.2	3767905	0.004015	2.06E-04	0.00E+00	4.01E-03	2.06E-04	0.00E+00	1.20E-03	3.70E-05	0.00E+00	4.55E-04	1.19E-05	0.00E+00
1667	457660.2	3767905	0.004255	2.18E-04	0.00E+00	4.26E-03	2.18E-04	0.00E+00	1.27E-03	3.92E-05	0.00E+00	4.83E-04	1.27E-05	0.00E+00
1668	457650.3	3767905	0.004502	2.31E-04	0.00E+00	4.50E-03	2.31E-04	0.00E+00	1.35E-03	4.15E-05	0.00E+00	5.11E-04	1.34E-05	0.00E+00
1669	457640.3	3767905	0.004753	2.44E-04	0.00E+00	4.75E-03	2.44E-04	0.00E+00	1.42E-03	4.38E-05	0.00E+00	5.39E-04	1.41E-05	0.00E+00
1670	457630.4	3767905	0.005005	2.57E-04	0.00E+00	5.00E-03	2.57E-04	0.00E+00	1.50E-03	4.61E-05	0.00E+00	5.68E-04	1.49E-05	0.00E+00
1671	457620.4	3767905	0.005254	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.96E-04	1.56E-05	0.00E+00
1672	457610.5	3767905	0.005499	2.82E-04	0.00E+00	5.50E-03	2.82E-04	0.00E+00	1.65E-03	5.07E-05	0.00E+00	6.24E-04	1.64E-05	0.00E+00
1673	457600.5	3767905	0.005738	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.51E-04	1.71E-05	0.00E+00
1674	457590.6	3767905	0.005971	3.06E-04	0.00E+00	5.97E-03	3.06E-04	0.00E+00	1.79E-03	5.50E-05	0.00E+00	6.77E-04	1.78E-05	0.00E+00
1675	457580.6	3767905	0.006196	3.18E-04	0.00E+00	6.20E-03	3.18E-04	0.00E+00	1.86E-03	5.71E-05	0.00E+00	7.03E-04	1.84E-05	0.00E+00
1676	457570.7	3767905	0.00641	3.29E-04	0.00E+00	6.41E-03	3.29E-04	0.00E+00	1.92E-03	5.91E-05	0.00E+00	7.27E-04	1.91E-05	0.00E+00
1677	457560.7	3767905	0.006615	3.39E-04	0.00E+00	6.62E-03	3.39E-04	0.00E+00	1.98E-03	6.10E-05	0.00E+00	7.51E-04	1.97E-05	0.00E+00
1678	457550.8	3767905	0.006808	3.49E-04	0.00E+00	6.81E-03	3.49E-04	0.00E+00	2.04E-03	6.28E-05	0.00E+00	7.72E-04	2.03E-05	0.00E+00
1679	457540.8	3767905	0.006989	3.58E-04	0.00E+00	6.99E-03	3.58E-04	0.00E+00	2.09E-03	6.44E-05	0.00E+00	7.93E-04	2.08E-05	0.00E+00
1680	457530.9	3767905	0.007153	3.67E-04	0.00E+00	7.15E-03	3.67E-04	0.00E+00	2.14E-03	6.59E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
1681	457520.9	3767905	0.007303	3.74E-04	0.00E+00	7.30E-03	3.74E-04	0.00E+00	2.19E-03	6.73E-05	0.00E+00	8.29E-04	2.17E-05	0.00E+00
1682	457511	3767905	0.00744	3.81E-04	0.00E+00	7.44E-03	3.81E-04	0.00E+00	2.23E-03	6.86E-05	0.00E+00	8.44E-04	2.21E-05	0.00E+00
1683	457501	3767905	0.007564	3.88E-04	0.00E+00	7.56E-03	3.88E-04	0.00E+00	2.27E-03	6.97E-05	0.00E+00	8.58E-04	2.25E-05	0.00E+00
1684	457491.1	3767905	0.007676	3.94E-04	0.00E+00	7.68E-03	3.94E-04	0.00E+00	2.30E-03	7.08E-05	0.00E+00	8.71E-04	2.28E-05	0.00E+00
1685	457481.1	3767905	0.007773	3.98E-04	0.00E+00	7.77E-03	3.98E-04	0.00E+00	2.33E-03	7.17E-05	0.00E+00	8.82E-04	2.31E-05	0.00E+00
1686	457471.2	3767905	0.007858	4.03E-04	0.00E+00	7.86E-03	4.03E-04	0.00E+00	2.35E-03	7.24E-05	0.00E+00	8.92E-04	2.34E-05	0.00E+00
1687	457461.2	3767905	0.007929	4.07E-04	0.00E+00	7.93E-03	4.07E-04	0.00E+00	2.37E-03	7.31E-05	0.00E+00	9.00E-04	2.36E-05	0.00E+00
1688	457451.3	3767905	0.007986	4.09E-04	0.00E+00	7.99E-03	4.09E-04	0.00E+00	2.39E-03	7.36E-05	0.00E+00	9.06E-04	2.38E-05	0.00E+00
1689	457441.3	3767905	0.008023	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.40E-05	0.00E+00	9.10E-04	2.39E-05	0.00E+00
1690	457431.4	3767905	0.008044	4.12E-04	0.00E+00	8.04E-03	4.12E-04	0.00E+00	2.41E-03	7.41E-05	0.00E+00	9.13E-04	2.39E-05	0.00E+00
1691	457421.4	3767905	0.008048	4.13E-04	0.00E+00	8.05E-03	4.13E-04	0.00E+00	2.41E-03	7.42E-05	0.00E+00	9.13E-04	2.39E-05	0.00E+00
1692	457411.5	3767905	0.00804	4.12E-04	0.00E+00	8.04E-03	4.12E-04	0.00E+00	2.41E-03	7.41E-05	0.00E+00	9.12E-04	2.39E-05	0.00E+00
1693	457401.5	3767905	0.008016	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.09E-04	2.39E-05	0.00E+00
1694	457391.6	3767905	0.007974	4.09E-04	0.00E+00	7.97E-03	4.09E-04	0.00E+00	2.39E-03	7.35E-05	0.00E+00	9.05E-04	2.37E-05	0.00E+00
1695	457381.6	3767905	0.007917	4.06E-04	0.00E+00	7.92E-03	4.06E-04	0.00E+00	2.37E-03	7.30E-05	0.00E+00	8.98E-04	2.36E-05	0.00E+00
1696	457371.7	3767905	0.007842	4.02E-04	0.00E+00	7.84E-03	4.02E-04	0.00E+00	2.35E-03	7.23E-05	0.00E+00	8.90E-04	2.33E-05	0.00E+00
1697	457361.7	3767905	0.007748	3.97E-04	0.00E+00	7.75E-03	3.97E-04	0.00E+00	2.32E-03	7.14E-05	0.00E+00	8.79E-04	2.31E-05	0.00E+00
1698	457351.8	3767905	0.00763	3.91E-04	0.00E+00	7.63E-03	3.91E-04	0.00E+00	2.29E-03	7.03E-05	0.00E+00	8.66E-04	2.27E-05	0.00E+00
1699	457341.8	3767905	0.007493	3.84E-04	0.00E+00	7.49E-03	3.84E-04	0.00E+00	2.24E-03	6.91E-05	0.00E+00	8.50E-04	2.23E-05	0.00E+00
1700	457331.9	3767905	0.007337	3.76E-04	0.00E+00	7.34E-03	3.76E-04	0.00E+00	2.20E-03	6.76E-05	0.00E+00	8.32E-04	2.18E-05	0.00E+00
1701	457752.8	3767901	0.002415	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.23E-05	0.00E+00	2.74E-04	7.19E-06	0.00E+00
1702	457761.6	3767905	0.002342	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.01E-04	2.16E-05	0.00E+00	2.66E-04	6.97E-06	0.00E+00
1703	457770.4	3767908	0.002274	1.17E-04	0.00E+00	2.27E-03	1.17E-04	0.00E+00	6.81E-04	2.10E-05	0.00E+00	2.58E-04	6.77E-06	0.00E+00
1704	457779.2	3767912	0.002212	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.62E-04	2.04E-05	0.00E+00	2.51E-04	6.58E-06	0.00E+00
1705	457788	3767916	0.002155	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.45E-04	1.99E-05	0.00E+00	2.44E-04	6.41E-06	0.00E+00
1706	457796.8	3767919	0.002103	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.30E-04	1.94E-05	0.00E+00	2.39E-04	6.26E-06	0.00E+00
1707	457809.3	3767932	0.00211	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.32E-04	1.95E-05	0.00E+00	2.39E-04	6.28E-06	0.00E+00
1708	457813	3767940	0.002173	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.51E-04	2.00E-05	0.00E+00	2.47E-04	6.47E-06	0.00E+00
1709	457816.7	3767949	0.002244	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
1710	457820.4	3767958	0.002324	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.96E-04	2.14E-05	0.00E+00	2.64E-04	6.91E-06	0.00E+00
1711	457824.2	3767967	0.002413	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.22E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
1712	457827.9	3767975	0.002514	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.48E-06	0.00E+00
1713	457831.6	3767984	0.002626	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.86E-04	2.42E-05	0.00E+00	2.98E-04	7.81E-06	0.00E+00
1714	457835.3	3767993	0.002751	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.24E-04	2.54E-05	0.00E+00	3.12E-04	8.19E-06	0.00E+00
1715	457839	3768002	0.00289	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.66E-04	2.66E-05	0.00E+00	3.28E-04	8.60E-06	0.00E+00
1716	457842.7	3768010	0.003043	1.56E-04	0.00E+00	3.04E-03	1.56E-04	0.00E+00	9.11E-04	2.81E-05	0.00E+00	3.45E-04	9.06E-06	0.00E+00
1717	457846.5	3768019	0.003209	1.65E-04	0.00E+00	3.21E-03	1.65E-04	0.00E+00	9.61E-04	2.96E-05	0.00E+00	3.64E-04	9.55E-06	0.00E+00
1718	457690	3767880	0.003116	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.33E-04	2.87E-05	0.00E+00	3.54E-04	9.27E-06	0.00E+00
1719	457680.1	3767880	0.003296	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.87E-04	3.04E-05	0.00E+00	3.74E-04	9.81E-06	0.00E+00
1720	457670.1	3767880	0.003484	1.79E-04	0.00E+00	3.48E-03	1.79E-04	0.00E+00	1.04E-03	3.21E-05	0.00E+00	3.95E-04	1.04E-05	0.00E+00
1721	457660.2	3767880	0.003678	1.89E-04	0.00E+00	3.68E-03	1.89E-04	0.00E+00	1.10E-03	3.39E-05	0.00E+00	4.17E-04	1.09E-05	0.00E+00
1722	457650.2	3767880	0.003877	1.99E-04	0.00E+00	3.88E-03	1.99E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.40E-04	1.15E-05	0.00E+00
1723	457640.3	3767880	0.004079	2.09E-04	0.00E+00	4.08E-03	2.09E-04	0.00E+00	1.22E-03	3.76E-05	0.00E+00	4.63E-04	1.21E-05	0.00E+00
1724	457630.3	3767880	0.004283	2.20E-04	0.00E+00	4.28E-03	2.20E-04	0.00E+00	1.28E-03	3.95E-05	0.00E+00	4.86E-04	1.27E-05	0.00E+00
1725	457620.4	3767880	0.004487	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.34E-03	4.14E-05	0.00E+00	5.09E-04	1.34E-05	0.00E+00

1726	457610.4	3767880	0.00469	2.40E-04	0.00E+00	4.69E-03	2.40E-04	0.00E+00	1.40E-03	4.32E-05	0.00E+00	5.32E-04	1.40E-05	0.00E+00
1727	457600.5	3767880	0.00489	2.51E-04	0.00E+00	4.89E-03	2.51E-04	0.00E+00	1.46E-03	4.51E-05	0.00E+00	5.55E-04	1.46E-05	0.00E+00
1728	457590.5	3767880	0.005087	2.61E-04	0.00E+00	5.09E-03	2.61E-04	0.00E+00	1.52E-03	4.69E-05	0.00E+00	5.77E-04	1.51E-05	0.00E+00
1729	457580.6	3767880	0.005279	2.71E-04	0.00E+00	5.28E-03	2.71E-04	0.00E+00	1.58E-03	4.87E-05	0.00E+00	5.99E-04	1.57E-05	0.00E+00
1730	457570.6	3767880	0.005464	2.80E-04	0.00E+00	5.46E-03	2.80E-04	0.00E+00	1.64E-03	5.04E-05	0.00E+00	6.20E-04	1.63E-05	0.00E+00
1731	457560.7	3767880	0.00564	2.89E-04	0.00E+00	5.64E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.40E-04	1.68E-05	0.00E+00
1732	457550.7	3767880	0.005806	2.98E-04	0.00E+00	5.81E-03	2.98E-04	0.00E+00	1.74E-03	5.35E-05	0.00E+00	6.59E-04	1.73E-05	0.00E+00
1733	457540.8	3767880	0.005964	3.06E-04	0.00E+00	5.96E-03	3.06E-04	0.00E+00	1.79E-03	5.50E-05	0.00E+00	6.77E-04	1.77E-05	0.00E+00
1734	457530.8	3767880	0.006112	3.13E-04	0.00E+00	6.11E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.93E-04	1.82E-05	0.00E+00
1735	457520.9	3767880	0.00625	3.20E-04	0.00E+00	6.25E-03	3.20E-04	0.00E+00	1.87E-03	5.76E-05	0.00E+00	7.09E-04	1.86E-05	0.00E+00
1736	457510.9	3767880	0.006376	3.27E-04	0.00E+00	6.38E-03	3.27E-04	0.00E+00	1.91E-03	5.88E-05	0.00E+00	7.23E-04	1.90E-05	0.00E+00
1737	457501	3767880	0.006494	3.33E-04	0.00E+00	6.49E-03	3.33E-04	0.00E+00	1.95E-03	5.99E-05	0.00E+00	7.37E-04	1.93E-05	0.00E+00
1738	457491	3767880	0.006601	3.38E-04	0.00E+00	6.60E-03	3.38E-04	0.00E+00	1.98E-03	6.09E-05	0.00E+00	7.49E-04	1.96E-05	0.00E+00
1739	457481.1	3767880	0.006697	3.43E-04	0.00E+00	6.70E-03	3.43E-04	0.00E+00	2.01E-03	6.17E-05	0.00E+00	7.60E-04	1.99E-05	0.00E+00
1740	457471.1	3767880	0.006778	3.47E-04	0.00E+00	6.78E-03	3.47E-04	0.00E+00	2.03E-03	6.25E-05	0.00E+00	7.69E-04	2.02E-05	0.00E+00
1741	457461.2	3767880	0.006846	3.51E-04	0.00E+00	6.85E-03	3.51E-04	0.00E+00	2.05E-03	6.31E-05	0.00E+00	7.77E-04	2.04E-05	0.00E+00
1742	457451.2	3767880	0.006901	3.54E-04	0.00E+00	6.90E-03	3.54E-04	0.00E+00	2.07E-03	6.36E-05	0.00E+00	7.83E-04	2.05E-05	0.00E+00
1743	457441.3	3767880	0.006945	3.56E-04	0.00E+00	6.94E-03	3.56E-04	0.00E+00	2.08E-03	6.40E-05	0.00E+00	7.88E-04	2.07E-05	0.00E+00
1744	457431.3	3767880	0.006975	3.58E-04	0.00E+00	6.98E-03	3.58E-04	0.00E+00	2.09E-03	6.43E-05	0.00E+00	7.91E-04	2.08E-05	0.00E+00
1745	457421.4	3767880	0.006992	3.58E-04	0.00E+00	6.99E-03	3.58E-04	0.00E+00	2.09E-03	6.45E-05	0.00E+00	7.93E-04	2.08E-05	0.00E+00
1746	457411.4	3767880	0.006999	3.59E-04	0.00E+00	7.00E-03	3.59E-04	0.00E+00	2.10E-03	6.45E-05	0.00E+00	7.94E-04	2.08E-05	0.00E+00
1747	457401.5	3767880	0.006992	3.58E-04	0.00E+00	6.99E-03	3.58E-04	0.00E+00	2.09E-03	6.45E-05	0.00E+00	7.93E-04	2.08E-05	0.00E+00
1748	457391.5	3767880	0.006971	3.57E-04	0.00E+00	6.97E-03	3.57E-04	0.00E+00	2.09E-03	6.43E-05	0.00E+00	7.91E-04	2.07E-05	0.00E+00
1749	457381.6	3767880	0.006932	3.55E-04	0.00E+00	6.93E-03	3.55E-04	0.00E+00	2.08E-03	6.39E-05	0.00E+00	7.86E-04	2.06E-05	0.00E+00
1750	457371.6	3767880	0.006877	3.53E-04	0.00E+00	6.88E-03	3.53E-04	0.00E+00	2.06E-03	6.34E-05	0.00E+00	7.80E-04	2.05E-05	0.00E+00
1751	457361.7	3767880	0.006807	3.49E-04	0.00E+00	6.81E-03	3.49E-04	0.00E+00	2.04E-03	6.27E-05	0.00E+00	7.72E-04	2.03E-05	0.00E+00
1752	457351.7	3767880	0.006722	3.45E-04	0.00E+00	6.72E-03	3.45E-04	0.00E+00	2.01E-03	6.20E-05	0.00E+00	7.63E-04	2.00E-05	0.00E+00
1753	457341.8	3767880	0.006624	3.40E-04	0.00E+00	6.62E-03	3.40E-04	0.00E+00	1.98E-03	6.11E-05	0.00E+00	7.52E-04	1.97E-05	0.00E+00
1754	457331.8	3767880	0.00651	3.34E-04	0.00E+00	6.51E-03	3.34E-04	0.00E+00	1.95E-03	6.00E-05	0.00E+00	7.39E-04	1.94E-05	0.00E+00
1755	457761.5	3767880	0.002106	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
1756	457770.3	3767883	0.002045	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
1757	457779.1	3767887	0.001988	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.26E-04	5.92E-06	0.00E+00
1758	457787.9	3767891	0.001936	9.92E-05	0.00E+00	1.94E-03	9.92E-05	0.00E+00	5.80E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
1759	457796.7	3767894	0.001887	9.68E-05	0.00E+00	1.89E-03	9.68E-05	0.00E+00	5.65E-04	1.74E-05	0.00E+00	2.14E-04	5.62E-06	0.00E+00
1760	457805.5	3767898	0.001843	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
1761	457814.3	3767901	0.001803	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.05E-04	5.36E-06	0.00E+00
1762	457826.8	3767914	0.001808	9.27E-05	0.00E+00	1.81E-03	9.27E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
1763	457830.6	3767923	0.001855	9.51E-05	0.00E+00	1.85E-03	9.51E-05	0.00E+00	5.56E-04	1.71E-05	0.00E+00	2.10E-04	5.52E-06	0.00E+00
1764	457834.3	3767931	0.001908	9.78E-05	0.00E+00	1.91E-03	9.78E-05	0.00E+00	5.72E-04	1.76E-05	0.00E+00	2.16E-04	5.68E-06	0.00E+00
1765	457838	3767940	0.001968	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.89E-04	1.81E-05	0.00E+00	2.23E-04	5.86E-06	0.00E+00
1766	457841.7	3767949	0.002035	1.04E-04	0.00E+00	2.04E-03	1.04E-04	0.00E+00	6.10E-04	1.88E-05	0.00E+00	2.31E-04	6.06E-06	0.00E+00
1767	457845.4	3767958	0.002111	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.32E-04	1.95E-05	0.00E+00	2.39E-04	6.28E-06	0.00E+00
1768	457849.2	3767966	0.002193	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.57E-04	2.02E-05	0.00E+00	2.49E-04	6.53E-06	0.00E+00
1769	457852.9	3767975	0.002285	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.84E-04	2.11E-05	0.00E+00	2.59E-04	6.80E-06	0.00E+00
1770	457856.6	3767984	0.002386	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.15E-04	2.20E-05	0.00E+00	2.71E-04	7.10E-06	0.00E+00
1771	457860.3	3767993	0.002499	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.48E-04	2.30E-05	0.00E+00	2.83E-04	7.43E-06	0.00E+00
1772	457864	3768001	0.002622	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.85E-04	2.42E-05	0.00E+00	2.97E-04	7.80E-06	0.00E+00
1773	457867.7	3768010	0.002754	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.25E-04	2.54E-05	0.00E+00	3.12E-04	8.20E-06	0.00E+00
1774	457871.5	3768019	0.002896	1.48E-04	0.00E+00	2.90E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.29E-04	8.62E-06	0.00E+00
1775	457690	3767855	0.002766	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.28E-04	2.55E-05	0.00E+00	3.14E-04	8.23E-06	0.00E+00
1776	457680	3767855	0.002914	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.73E-04	2.69E-05	0.00E+00	3.31E-04	8.67E-06	0.00E+00
1777	457670.1	3767855	0.003069	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.19E-04	2.83E-05	0.00E+00	3.48E-04	9.13E-06	0.00E+00
1778	457660.1	3767855	0.003228	1.65E-04	0.00E+00	3.23E-03	1.65E-04	0.00E+00	9.67E-04	2.98E-05	0.00E+00	3.66E-04	9.61E-06	0.00E+00
1779	457650.2	3767855	0.003391	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
1780	457640.2	3767855	0.003558	1.82E-04	0.00E+00	3.56E-03	1.82E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
1781	457630.3	3767855	0.003726	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
1782	457620.3	3767855	0.003897	2.00E-04	0.00E+00	3.90E-03	2.00E-04	0.00E+00	1.17E-03	3.59E-05	0.00E+00	4.42E-04	1.16E-05	0.00E+00
1783	457610.4	3767855	0.004067	2.09E-04	0.00E+00	4.07E-03	2.09E-04	0.00E+00	1.22E-03	3.75E-05	0.00E+00	4.61E-04	1.21E-05	0.00E+00
1784	457600.4	3767855	0.004236	2.17E-04	0.00E+00	4.24E-03	2.17E-04	0.00E+00	1.27E-03	3.91E-05	0.00E+00	4.81E-04	1.26E-05	0.00E+00
1785	457590.5	3767855	0.004402	2.26E-04	0.00E+00	4.40E-03	2.26E-04	0.00E+00	1.32E-03	4.06E-05	0.00E+00	4.99E-04	1.31E-05	0.00E+00
1786	457580.5	3767855	0.004565	2.34E-04	0.00E+00	4.56E-03	2.34E-04	0.00E+00	1.37E-03	4.21E-05	0.00E+00	5.18E-04	1.36E-05	0.00E+00
1787	457570.6	3767855	0.004722	2.42E-04	0.00E+00	4.72E-03	2.42E-04	0.00E+00	1.41E-03	4.35E-05	0.00E+00	5.36E-04	1.41E-05	0.00E+00
1788	457560.6	3767855	0.004874	2.50E-04	0.00E+00	4.87E-03	2.50E-04	0.00E+00	1.46E-03	4.49E-05	0.00E+00	5.53E-04	1.45E-05	0.00E+00
1789	457550.7	3767855	0.00502	2.57E-04	0.00E+00	5.02E-03	2.57E-04	0.00E+00	1.50E-03	4.63E-05	0.00E+00	5.69E-04	1.49E-05	0.00E+00
1790	457540.7	3767855	0.005158	2.64E-04	0.00E+00	5.16E-03	2.64E-04	0.00E+00	1.54E-03	4.75E-05	0.00E+00	5.85E-04	1.53E-05	0.00E+00
1791	457530.8	3767855	0.005291	2.71E-04	0.00E+00	5.29E-03	2.71E-04	0.00E+00	1.58E-03	4.88E-05	0.00E+00	6.00E-04	1.57E-05	0.00E+00
1792	457520.8	3767855	0.005417	2.78E-04	0.00E+00	5.42E-03	2.78E-04	0.00E+00	1.62E-03	4.99E-05	0.00E+00	6.15E-04	1.61E-05	0.00E+00
1793	457510.9	3767855	0.005534	2.84E-04	0.00E+00	5.53E-03	2.84E-04	0.00E+00	1.66E-03	5.10E-05	0.00E+00	6.28E-04	1.65E-05	0.00E+00
1794	457500.9	3767855	0.005641	2.89E-04	0.00E+00	5.64E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.40E-04	1.68E-05	0.00E+00
1795	457491	3767855	0.005738	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.51E-04	1.71E-05	0.00E+00
1796	457481	3767855	0.005826	2.99E-04	0.00E+00	5.83E-03	2.99E-04	0.00E+00	1.75E-03	5.37E-05	0.00E+00	6.61E-04	1.73E-05	0.00E+00
1797	457471.1	3767855	0.005903	3.03E-04	0.00E+00	5.90E-03	3.03E-04	0.00E+00	1.77E-03	5.44E-05	0.00E+00	6.70E-04	1.76E-05	0.00E+00
1798	457461.1	3767855	0.00597	3.06E-04	0.00E+00	5.97E-03	3.06E-04	0.00E+00	1.79E-03	5.50E-05	0.00E+00	6.77E-04	1.78E-05	0.00E+00
1799	457451.2	3767855	0.006026	3.09E-04	0.00E+00	6.03E-03	3.09E-04	0.00E+00	1.80E-03	5.55E-05	0.00E+00	6.84E-04	1.79E-05	0.00E+00
1800	457441.2	3767855	0.006074	3.11E-04	0.00E+00	6.07E-03	3.11E-04	0.00E+00	1.82E-03	5.60E-05	0.00E+00	6.89E-04	1.81E-05	0.00E+00
1801	457431.3	3767855	0.006112	3.13E-04	0.00E+00	6.11E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.93E-04	1.82E-05	0.00E+00
1802	457421.4	3767855	0.006139	3.15E-04	0.00E+00	6.14E-03	3.15E-04	0.00E+00	1.84E-03	5.66E-05	0.00E+00	6.96E-04	1.83E-05	0.00E+00
1803	457411.4	3767855	0.006152	3.15E-04	0.00E+00	6.15E-03	3.15E-04	0.00E+00	1.84E-03	5.67E-05	0.00E+00	6.98E-04	1.83E-05	0.00E+00
1804	457401.5	3767855	0.006154	3.15E-04	0.00E+00	6.15E-03	3.15E-04	0.00E+00	1.84E-03	5.67E-05	0.00E+00	6.98E-04	1.83E-05	0.00E+00
1805	457391.5	3767855	0.006143	3.15E-04	0.00E+00	6.14E-03	3.15E-04	0.00E+00	1.84E-03	5.66E-05	0.00E+00	6.97E-04	1.83E-05	0.00E+00
1806	457381.6	3767855	0.006119	3.14E-04	0.00E+00	6.12E-03	3.14E-04	0.00E+00	1.83E-03	5.64E-05	0.00E+00	6.94E-04	1.82E-05	0.00E+00
1807	457371.6	3767855	0.006082	3.12E-04	0.00E+00	6.08E-03	3.12E-04	0.00E+00	1.82E-03	5.61E-05	0.00E+00	6.90E-04	1.81E-05	0.00E+00
1808	457361.7	3767855	0.006034	3.09E-04	0.00E+00	6.03E-03	3.09E-04	0.00E+00	1.81E-03	5.56E-05	0.00E+00	6.85E-04	1.80E-05	0.00E+00
1809	457351.7	3767855	0.005976	3.06E-04	0.00E+00	5.98E-03	3.06E-04	0.00E+00	1.79E-03	5.51E-05	0.00E+00	6.78E-04	1.78E-05	0.00E+00
1810	457341.8	3767855	0.005907	3.03E-04	0.00E+00	5.91E-03	3.03E-04	0.00E+00	1.77E-03	5.45E-05	0.00E+00	6.70E-04	1.76E-05	0.00E+00
1811	457331.8	3767855	0.005826	2.99E-04	0.00E+00	5.83E-03	2.99E-04	0.00E+00	1.75E-03	5.37E-05	0.00E+00	6.61E-04	1.73E-05	0.00E+00
1812	457823.1	3767880	0.001599	8.20E-05	0.00E+00	1.60E-03	8.20E-05	0.00E+00	4.79E-04	1.47E-05	0.00E+00	1.81E-04	4.76E-06	0.00E+00
1813	457831.9	3767884	0.001567	8.03E-05	0.00E+00	1.57E-03	8.03E-05	0.00E+00	4.69E-04	1.44E-05	0.00E+00	1.78E-04	4.66E-06	0.00E+00
1814	457844.4	3767896	0.001569	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
1815	457848.1	3767905	0.001606	8.24E-05	0.00E+00	1.61E-03	8.24E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
1816	457851.8	3767914	0.001648	8.45E-05	0.00E+00	1.65E-03	8.45E-05	0.00E+00	4.93E-04	1.52E-05	0.00E+00	1.87E-04	4.90E-06	0.00E+00
1817	457855.6	3767922	0.001694	8.68E-05	0.00E+00	1.69E-03	8.68E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.04E-06	0.00E+00
1818	457859.3	3767931	0.001745	8.95E-05	0.00E+00	1.74E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.19E-06	0.00E+00
1819	457863	3767940	0.001802	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
1820	457866.7	3767949	0.001866	9.57E-05	0.00E+00	1.87E-03	9.57E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.55E-06	0.00E+00
1821	457870.4	3767957	0.001936	9.93E-05	0.00E+00	1.94E-03	9.93E-05	0.00E+00	5.80E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00

1822	457874.1	3767966	0.002012	1.03E-04	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.03E-04	1.86E-05	0.00E+00	2.28E-04	5.99E-06	0.00E+00
1823	457877.9	3767975	0.002096	1.07E-04	0.00E+00	2.10E-03	1.07E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
1824	457881.6	3767984	0.002188	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.55E-04	2.02E-05	0.00E+00	2.48E-04	6.51E-06	0.00E+00
1825	457885.3	3767992	0.002288	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.85E-04	2.11E-05	0.00E+00	2.60E-04	6.81E-06	0.00E+00
1826	457889	3768001	0.002396	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.17E-04	2.21E-05	0.00E+00	2.72E-04	7.13E-06	0.00E+00
1827	457892.7	3768010	0.002511	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.52E-04	2.31E-05	0.00E+00	2.85E-04	7.47E-06	0.00E+00
1828	457896.5	3768019	0.002632	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.88E-04	2.43E-05	0.00E+00	2.99E-04	7.83E-06	0.00E+00
1829	457689.9	3767830	0.002482	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.82E-04	7.39E-06	0.00E+00
1830	457680	3767830	0.002606	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.96E-04	7.75E-06	0.00E+00
1831	457670	3767830	0.002735	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.19E-04	2.52E-05	0.00E+00	3.10E-04	8.14E-06	0.00E+00
1832	457660.1	3767830	0.002867	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.59E-04	2.64E-05	0.00E+00	3.25E-04	8.53E-06	0.00E+00
1833	457650.1	3767830	0.003005	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	9.00E-04	2.77E-05	0.00E+00	3.41E-04	8.94E-06	0.00E+00
1834	457640.2	3767830	0.003145	1.61E-04	0.00E+00	3.14E-03	1.61E-04	0.00E+00	9.42E-04	2.90E-05	0.00E+00	3.57E-04	9.36E-06	0.00E+00
1835	457630.2	3767830	0.003287	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.85E-04	3.03E-05	0.00E+00	3.73E-04	9.78E-06	0.00E+00
1836	457620.3	3767830	0.00343	1.76E-04	0.00E+00	3.43E-03	1.76E-04	0.00E+00	1.03E-03	3.16E-05	0.00E+00	3.89E-04	1.02E-05	0.00E+00
1837	457610.3	3767830	0.003574	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
1838	457600.4	3767830	0.003717	1.91E-04	0.00E+00	3.72E-03	1.91E-04	0.00E+00	1.11E-03	3.43E-05	0.00E+00	4.22E-04	1.11E-05	0.00E+00
1839	457590.4	3767830	0.003857	1.98E-04	0.00E+00	3.86E-03	1.98E-04	0.00E+00	1.16E-03	3.56E-05	0.00E+00	4.38E-04	1.15E-05	0.00E+00
1840	457580.5	3767830	0.003995	2.05E-04	0.00E+00	4.00E-03	2.05E-04	0.00E+00	1.20E-03	3.68E-05	0.00E+00	4.53E-04	1.19E-05	0.00E+00
1841	457570.5	3767830	0.00413	2.12E-04	0.00E+00	4.13E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
1842	457560.6	3767830	0.004263	2.19E-04	0.00E+00	4.26E-03	2.19E-04	0.00E+00	1.28E-03	3.93E-05	0.00E+00	4.84E-04	1.27E-05	0.00E+00
1843	457550.6	3767830	0.004392	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.32E-03	4.05E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
1844	457540.7	3767830	0.004516	2.32E-04	0.00E+00	4.52E-03	2.32E-04	0.00E+00	1.35E-03	4.16E-05	0.00E+00	5.12E-04	1.34E-05	0.00E+00
1845	457530.8	3767830	0.004633	2.38E-04	0.00E+00	4.63E-03	2.38E-04	0.00E+00	1.39E-03	4.27E-05	0.00E+00	5.26E-04	1.38E-05	0.00E+00
1846	457520.8	3767830	0.004744	2.43E-04	0.00E+00	4.74E-03	2.43E-04	0.00E+00	1.42E-03	4.37E-05	0.00E+00	5.38E-04	1.41E-05	0.00E+00
1847	457510.9	3767830	0.004849	2.49E-04	0.00E+00	4.85E-03	2.49E-04	0.00E+00	1.45E-03	4.47E-05	0.00E+00	5.50E-04	1.44E-05	0.00E+00
1848	457500.9	3767830	0.004945	2.54E-04	0.00E+00	4.95E-03	2.54E-04	0.00E+00	1.48E-03	4.56E-05	0.00E+00	5.61E-04	1.47E-05	0.00E+00
1849	457491	3767830	0.005033	2.58E-04	0.00E+00	5.03E-03	2.58E-04	0.00E+00	1.51E-03	4.64E-05	0.00E+00	5.71E-04	1.50E-05	0.00E+00
1850	457481	3767830	0.005113	2.62E-04	0.00E+00	5.11E-03	2.62E-04	0.00E+00	1.53E-03	4.71E-05	0.00E+00	5.80E-04	1.52E-05	0.00E+00
1851	457471.1	3767830	0.005188	2.66E-04	0.00E+00	5.19E-03	2.66E-04	0.00E+00	1.55E-03	4.78E-05	0.00E+00	5.89E-04	1.54E-05	0.00E+00
1852	457461.1	3767830	0.005254	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.96E-04	1.56E-05	0.00E+00
1853	457451.2	3767830	0.005313	2.72E-04	0.00E+00	5.31E-03	2.72E-04	0.00E+00	1.59E-03	4.90E-05	0.00E+00	6.03E-04	1.58E-05	0.00E+00
1854	457441.2	3767830	0.005362	2.75E-04	0.00E+00	5.36E-03	2.75E-04	0.00E+00	1.61E-03	4.94E-05	0.00E+00	6.08E-04	1.60E-05	0.00E+00
1855	457431.3	3767830	0.005402	2.77E-04	0.00E+00	5.40E-03	2.77E-04	0.00E+00	1.62E-03	4.98E-05	0.00E+00	6.13E-04	1.61E-05	0.00E+00
1856	457421.3	3767830	0.005432	2.78E-04	0.00E+00	5.43E-03	2.78E-04	0.00E+00	1.63E-03	5.01E-05	0.00E+00	6.16E-04	1.62E-05	0.00E+00
1857	457411.4	3767830	0.00545	2.79E-04	0.00E+00	5.45E-03	2.79E-04	0.00E+00	1.63E-03	5.02E-05	0.00E+00	6.18E-04	1.62E-05	0.00E+00
1858	457401.4	3767830	0.005456	2.80E-04	0.00E+00	5.46E-03	2.80E-04	0.00E+00	1.63E-03	5.03E-05	0.00E+00	6.19E-04	1.62E-05	0.00E+00
1859	457391.5	3767830	0.005451	2.79E-04	0.00E+00	5.45E-03	2.79E-04	0.00E+00	1.63E-03	5.03E-05	0.00E+00	6.18E-04	1.62E-05	0.00E+00
1860	457381.5	3767830	0.005442	2.79E-04	0.00E+00	5.44E-03	2.79E-04	0.00E+00	1.63E-03	5.02E-05	0.00E+00	6.17E-04	1.62E-05	0.00E+00
1861	457371.6	3767830	0.005423	2.78E-04	0.00E+00	5.42E-03	2.78E-04	0.00E+00	1.62E-03	5.00E-05	0.00E+00	6.15E-04	1.61E-05	0.00E+00
1862	457361.6	3767830	0.005393	2.77E-04	0.00E+00	5.39E-03	2.77E-04	0.00E+00	1.62E-03	4.97E-05	0.00E+00	6.12E-04	1.60E-05	0.00E+00
1863	457351.7	3767830	0.005354	2.74E-04	0.00E+00	5.35E-03	2.74E-04	0.00E+00	1.60E-03	4.94E-05	0.00E+00	6.07E-04	1.59E-05	0.00E+00
1864	457341.7	3767830	0.005305	2.72E-04	0.00E+00	5.30E-03	2.72E-04	0.00E+00	1.59E-03	4.89E-05	0.00E+00	6.02E-04	1.58E-05	0.00E+00
1865	457331.8	3767830	0.005246	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.95E-04	1.56E-05	0.00E+00
1866	457726.2	3767815	0.00197	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.90E-04	1.82E-05	0.00E+00	2.24E-04	5.86E-06	0.00E+00
1867	457735	3767819	0.001914	9.81E-05	0.00E+00	1.91E-03	9.81E-05	0.00E+00	5.73E-04	1.76E-05	0.00E+00	2.17E-04	5.69E-06	0.00E+00
1868	457743.8	3767823	0.001859	9.53E-05	0.00E+00	1.86E-03	9.53E-05	0.00E+00	5.57E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
1869	457752.6	3767826	0.001806	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.66E-05	0.00E+00	2.05E-04	5.37E-06	0.00E+00
1870	457865.7	3767887	0.001408	7.22E-05	0.00E+00	1.41E-03	7.22E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
1871	457869.4	3767896	0.001441	7.39E-05	0.00E+00	1.44E-03	7.39E-05	0.00E+00	4.32E-04	1.33E-05	0.00E+00	1.63E-04	4.29E-06	0.00E+00
1872	457873.1	3767904	0.001477	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.68E-04	4.39E-06	0.00E+00
1873	457876.8	3767913	0.001517	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
1874	457880.6	3767922	0.001561	8.00E-05	0.00E+00	1.56E-03	8.00E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
1875	457884.3	3767931	0.00161	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00
1876	457888	3767939	0.001664	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
1877	457891.7	3767948	0.001723	8.83E-05	0.00E+00	1.72E-03	8.83E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.95E-04	5.13E-06	0.00E+00
1878	457895.4	3767957	0.001787	9.16E-05	0.00E+00	1.79E-03	9.16E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
1879	457899.1	3767966	0.001857	9.52E-05	0.00E+00	1.86E-03	9.52E-05	0.00E+00	5.56E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
1880	457902.9	3767974	0.001935	9.92E-05	0.00E+00	1.93E-03	9.92E-05	0.00E+00	5.79E-04	1.78E-05	0.00E+00	2.19E-04	5.76E-06	0.00E+00
1881	457906.6	3767983	0.002018	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
1882	457910.3	3767992	0.002107	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
1883	457914	3768001	0.002202	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.55E-06	0.00E+00
1884	457917.7	3768009	0.002303	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
1885	457921.5	3768018	0.002408	1.23E-04	0.00E+00	2.41E-03	1.23E-04	0.00E+00	7.21E-04	2.22E-05	0.00E+00	2.73E-04	7.16E-06	0.00E+00
1886	457689.9	3767805	0.002245	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.73E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
1887	457679.9	3767805	0.002351	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.04E-04	2.17E-05	0.00E+00	2.67E-04	7.00E-06	0.00E+00
1888	457670	3767805	0.002461	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.32E-06	0.00E+00
1889	457660	3767805	0.002575	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.71E-04	2.37E-05	0.00E+00	2.92E-04	7.66E-06	0.00E+00
1890	457650.1	3767805	0.002691	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.06E-04	2.48E-05	0.00E+00	3.05E-04	8.01E-06	0.00E+00
1891	457640.2	3767805	0.00281	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.42E-04	2.59E-05	0.00E+00	3.19E-04	8.36E-06	0.00E+00
1892	457630.2	3767805	0.002931	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.78E-04	2.70E-05	0.00E+00	3.32E-04	8.72E-06	0.00E+00
1893	457620.3	3767805	0.003051	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
1894	457610.3	3767805	0.003172	1.63E-04	0.00E+00	3.17E-03	1.63E-04	0.00E+00	9.50E-04	2.92E-05	0.00E+00	3.60E-04	9.44E-06	0.00E+00
1895	457600.4	3767805	0.003293	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.86E-04	3.04E-05	0.00E+00	3.74E-04	9.80E-06	0.00E+00
1896	457590.4	3767805	0.003415	1.75E-04	0.00E+00	3.41E-03	1.75E-04	0.00E+00	1.02E-03	3.15E-05	0.00E+00	3.87E-04	1.02E-05	0.00E+00
1897	457580.5	3767805	0.003535	1.81E-04	0.00E+00	3.54E-03	1.81E-04	0.00E+00	1.06E-03	3.26E-05	0.00E+00	4.01E-04	1.05E-05	0.00E+00
1898	457570.5	3767805	0.003653	1.87E-04	0.00E+00	3.65E-03	1.87E-04	0.00E+00	1.09E-03	3.37E-05	0.00E+00	4.14E-04	1.09E-05	0.00E+00
1899	457560.6	3767805	0.003769	1.93E-04	0.00E+00	3.77E-03	1.93E-04	0.00E+00	1.13E-03	3.47E-05	0.00E+00	4.28E-04	1.12E-05	0.00E+00
1900	457550.6	3767805	0.003882	1.99E-04	0.00E+00	3.88E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.40E-04	1.16E-05	0.00E+00
1901	457540.7	3767805	0.003991	2.05E-04	0.00E+00	3.99E-03	2.05E-04	0.00E+00	1.20E-03	3.68E-05	0.00E+00	4.53E-04	1.19E-05	0.00E+00
1902	457530.7	3767805	0.004093	2.10E-04	0.00E+00	4.09E-03	2.10E-04	0.00E+00	1.23E-03	3.77E-05	0.00E+00	4.64E-04	1.22E-05	0.00E+00
1903	457520.8	3767805	0.00419	2.15E-04	0.00E+00	4.19E-03	2.15E-04	0.00E+00	1.25E-03	3.86E-05	0.00E+00	4.75E-04	1.25E-05	0.00E+00
1904	457510.8	3767805	0.004281	2.19E-04	0.00E+00	4.28E-03	2.19E-04	0.00E+00	1.28E-03	3.95E-05	0.00E+00	4.86E-04	1.27E-05	0.00E+00
1905	457500.9	3767805	0.00437	2.24E-04	0.00E+00	4.37E-03	2.24E-04	0.00E+00	1.31E-03	4.03E-05	0.00E+00	4.96E-04	1.30E-05	0.00E+00
1906	457490.9	3767805	0.004453	2.28E-04	0.00E+00	4.45E-03	2.28E-04	0.00E+00	1.33E-03	4.10E-05	0.00E+00	5.05E-04	1.33E-05	0.00E+00
1907	457481	3767805	0.004529	2.32E-04	0.00E+00	4.53E-03	2.32E-04	0.00E+00	1.36E-03	4.18E-05	0.00E+00	5.14E-04	1.35E-05	0.00E+00
1908	457471	3767805	0.0046	2.36E-04	0.00E+00	4.60E-03	2.36E-04	0.00E+00	1.38E-03	4.24E-05	0.00E+00	5.22E-04	1.37E-05	0.00E+00
1909	457461.1	3767805	0.004663	2.39E-04	0.00E+00	4.66E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
1910	457451.1	3767805	0.004718	2.42E-04	0.00E+00	4.72E-03	2.42E-04	0.00E+00	1.41E-03	4.35E-05	0.00E+00	5.35E-04	1.40E-05	0.00E+00
1911	457441.2	3767805	0.004767	2.44E-04	0.00E+00	4.77E-03	2.44E-04	0.00E+00	1.43E-03	4.39E-05	0.00E+00	5.41E-04	1.42E-05	0.00E+00
1912	457431.2	3767805	0.004807	2.46E-04	0.00E+00	4.81E-03	2.46E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.45E-04	1.43E-05	0.00E+00
1913	457421.3	3767805	0.00484	2.48E-04	0.00E+00	4.84E-03	2.48E-04	0.00E+00	1.45E-03	4.46E-05	0.00E+00	5.49E-04	1.44E-05	0.00E+00
1914	457411.3	3767805	0.004862	2.49E-04	0.00E+00	4.86E-03	2.49E-04	0.00E+00	1.46E-03	4.48E-05	0.00E+00	5.52E-04	1.45E-05	0.00E+00
1915	457401.4	3767805	0.004874	2.50E-04	0.00E+00	4.87E-03	2.50E-04	0.00E+00	1.46E-03	4.49E-05	0.00E+00	5.53E-04	1.45E-05	0.00E+00
1916	457391.4	3767805	0.004878	2.50E-04	0.00E+00	4.88E-03	2.50E-04	0.00E+00	1.46E-03	4.50E-05	0.00E+00	5.53E-04	1.45E-05	0.00E+00
1917	457381.5	3767805	0.004877	2.50E-04	0.00E+00	4.88E-03	2.50E-04	0.00E+00	1.46E-03	4.50E-05	0.00E+00	5.53E-04	1.45E-05	0.00E+00

1918	457371.5	3767805	0.004868	2.50E-04	0.00E+00	4.87E-03	2.50E-04	0.00E+00	1.46E-03	4.49E-05	0.00E+00	5.52E-04	1.45E-05	0.00E+00
1919	457361.6	3767805	0.00485	2.49E-04	0.00E+00	4.85E-03	2.49E-04	0.00E+00	1.45E-03	4.47E-05	0.00E+00	5.50E-04	1.44E-05	0.00E+00
1920	457351.6	3767805	0.004824	2.47E-04	0.00E+00	4.82E-03	2.47E-04	0.00E+00	1.44E-03	4.45E-05	0.00E+00	5.47E-04	1.44E-05	0.00E+00
1921	457341.7	3767805	0.00479	2.46E-04	0.00E+00	4.79E-03	2.46E-04	0.00E+00	1.43E-03	4.42E-05	0.00E+00	5.43E-04	1.43E-05	0.00E+00
1922	457331.7	3767805	0.004747	2.43E-04	0.00E+00	4.75E-03	2.43E-04	0.00E+00	1.42E-03	4.38E-05	0.00E+00	5.39E-04	1.41E-05	0.00E+00
1923	457726.2	3767790	0.001809	9.27E-05	0.00E+00	1.81E-03	9.27E-05	0.00E+00	5.42E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
1924	457735	3767794	0.00176	9.02E-05	0.00E+00	1.76E-03	9.02E-05	0.00E+00	5.27E-04	1.62E-05	0.00E+00	2.00E-04	5.24E-06	0.00E+00
1925	457743.8	3767798	0.001711	8.77E-05	0.00E+00	1.71E-03	8.77E-05	0.00E+00	5.13E-04	1.58E-05	0.00E+00	1.94E-04	5.09E-06	0.00E+00
1926	457752.6	3767801	0.001665	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.99E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
1927	457761.4	3767805	0.001619	8.30E-05	0.00E+00	1.62E-03	8.30E-05	0.00E+00	4.85E-04	1.49E-05	0.00E+00	1.84E-04	4.82E-06	0.00E+00
1928	457770.2	3767808	0.001576	8.08E-05	0.00E+00	1.58E-03	8.08E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
1929	457779	3767812	0.001534	7.86E-05	0.00E+00	1.53E-03	7.86E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
1930	457787.8	3767816	0.001494	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.45E-06	0.00E+00
1931	457796.6	3767819	0.001455	7.46E-05	0.00E+00	1.46E-03	7.46E-05	0.00E+00	4.36E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
1932	457805.4	3767823	0.001419	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.22E-06	0.00E+00
1933	457814.2	3767826	0.001385	7.10E-05	0.00E+00	1.39E-03	7.10E-05	0.00E+00	4.15E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
1934	457890.7	3767887	0.001302	6.67E-05	0.00E+00	1.30E-03	6.67E-05	0.00E+00	3.90E-04	1.20E-05	0.00E+00	1.48E-04	3.87E-06	0.00E+00
1935	457894.4	3767895	0.001334	6.84E-05	0.00E+00	1.33E-03	6.84E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
1936	457898.1	3767904	0.001369	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
1937	457901.8	3767913	0.001407	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
1938	457905.6	3767922	0.00145	7.43E-05	0.00E+00	1.45E-03	7.43E-05	0.00E+00	4.34E-04	1.34E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
1939	457909.3	3767930	0.001496	7.67E-05	0.00E+00	1.50E-03	7.67E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
1940	457913	3767939	0.001547	7.93E-05	0.00E+00	1.55E-03	7.93E-05	0.00E+00	4.63E-04	1.43E-05	0.00E+00	1.75E-04	4.60E-06	0.00E+00
1941	457916.7	3767948	0.001601	8.21E-05	0.00E+00	1.60E-03	8.21E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
1942	457920.4	3767957	0.001661	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
1943	457924.1	3767965	0.001726	8.85E-05	0.00E+00	1.73E-03	8.85E-05	0.00E+00	5.17E-04	1.59E-05	0.00E+00	1.96E-04	5.14E-06	0.00E+00
1944	457927.9	3767974	0.001796	9.21E-05	0.00E+00	1.80E-03	9.21E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.34E-06	0.00E+00
1945	457931.6	3767983	0.001871	9.59E-05	0.00E+00	1.87E-03	9.59E-05	0.00E+00	5.60E-04	1.72E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
1946	457935.3	3767992	0.00195	1.00E-04	0.00E+00	1.95E-03	1.00E-04	0.00E+00	5.84E-04	1.80E-05	0.00E+00	2.21E-04	5.80E-06	0.00E+00
1947	457939	3768000	0.002034	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.09E-04	1.88E-05	0.00E+00	2.31E-04	6.05E-06	0.00E+00
1948	457942.7	3768009	0.002122	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
1949	457946.5	3768018	0.002214	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.63E-04	2.04E-05	0.00E+00	2.51E-04	6.59E-06	0.00E+00
1950	457689.9	3767780	0.002048	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.13E-04	1.89E-05	0.00E+00	2.32E-04	6.09E-06	0.00E+00
1951	457679.9	3767780	0.002139	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.41E-04	1.97E-05	0.00E+00	2.43E-04	6.37E-06	0.00E+00
1952	457670	3767780	0.002234	1.15E-04	0.00E+00	2.23E-03	1.15E-04	0.00E+00	6.69E-04	2.06E-05	0.00E+00	2.53E-04	6.65E-06	0.00E+00
1953	457660	3767780	0.002331	1.20E-04	0.00E+00	2.33E-03	1.20E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.94E-06	0.00E+00
1954	457650.1	3767780	0.00243	1.25E-04	0.00E+00	2.43E-03	1.25E-04	0.00E+00	7.28E-04	2.24E-05	0.00E+00	2.76E-04	7.23E-06	0.00E+00
1955	457640.1	3767780	0.002531	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.58E-04	2.33E-05	0.00E+00	2.87E-04	7.53E-06	0.00E+00
1956	457630.2	3767780	0.002633	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.89E-04	2.43E-05	0.00E+00	2.99E-04	7.83E-06	0.00E+00
1957	457620.2	3767780	0.002737	1.40E-04	0.00E+00	2.74E-03	1.40E-04	0.00E+00	8.20E-04	2.52E-05	0.00E+00	3.11E-04	8.15E-06	0.00E+00
1958	457610.3	3767780	0.002843	1.46E-04	0.00E+00	2.84E-03	1.46E-04	0.00E+00	8.51E-04	2.62E-05	0.00E+00	3.22E-04	8.46E-06	0.00E+00
1959	457600.3	3767780	0.002948	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.83E-04	2.72E-05	0.00E+00	3.34E-04	8.77E-06	0.00E+00
1960	457590.4	3767780	0.003053	1.57E-04	0.00E+00	3.05E-03	1.57E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
1961	457580.4	3767780	0.003157	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.46E-04	2.91E-05	0.00E+00	3.58E-04	9.40E-06	0.00E+00
1962	457570.5	3767780	0.00326	1.67E-04	0.00E+00	3.26E-03	1.67E-04	0.00E+00	9.76E-04	3.01E-05	0.00E+00	3.70E-04	9.70E-06	0.00E+00
1963	457560.5	3767780	0.003361	1.72E-04	0.00E+00	3.36E-03	1.72E-04	0.00E+00	1.01E-03	3.10E-05	0.00E+00	3.81E-04	1.00E-05	0.00E+00
1964	457550.6	3767780	0.00346	1.77E-04	0.00E+00	3.46E-03	1.77E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
1965	457540.6	3767780	0.003556	1.82E-04	0.00E+00	3.56E-03	1.82E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.03E-04	1.06E-05	0.00E+00
1966	457530.7	3767780	0.003647	1.87E-04	0.00E+00	3.65E-03	1.87E-04	0.00E+00	1.09E-03	3.36E-05	0.00E+00	4.14E-04	1.09E-05	0.00E+00
1967	457520.7	3767780	0.003733	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.24E-04	1.11E-05	0.00E+00
1968	457510.8	3767780	0.003816	1.96E-04	0.00E+00	3.82E-03	1.96E-04	0.00E+00	1.14E-03	3.52E-05	0.00E+00	4.33E-04	1.14E-05	0.00E+00
1969	457500.8	3767780	0.003896	2.00E-04	0.00E+00	3.90E-03	2.00E-04	0.00E+00	1.17E-03	3.59E-05	0.00E+00	4.42E-04	1.16E-05	0.00E+00
1970	457490.9	3767780	0.003971	2.04E-04	0.00E+00	3.97E-03	2.04E-04	0.00E+00	1.19E-03	3.66E-05	0.00E+00	4.51E-04	1.18E-05	0.00E+00
1971	457480.9	3767780	0.004041	2.07E-04	0.00E+00	4.04E-03	2.07E-04	0.00E+00	1.21E-03	3.73E-05	0.00E+00	4.58E-04	1.20E-05	0.00E+00
1972	457471	3767780	0.004106	2.11E-04	0.00E+00	4.11E-03	2.11E-04	0.00E+00	1.23E-03	3.79E-05	0.00E+00	4.66E-04	1.22E-05	0.00E+00
1973	457461	3767780	0.004165	2.14E-04	0.00E+00	4.17E-03	2.14E-04	0.00E+00	1.25E-03	3.84E-05	0.00E+00	4.73E-04	1.24E-05	0.00E+00
1974	457451.1	3767780	0.004218	2.16E-04	0.00E+00	4.22E-03	2.16E-04	0.00E+00	1.26E-03	3.89E-05	0.00E+00	4.79E-04	1.26E-05	0.00E+00
1975	457441.1	3767780	0.004263	2.19E-04	0.00E+00	4.26E-03	2.19E-04	0.00E+00	1.28E-03	3.93E-05	0.00E+00	4.84E-04	1.27E-05	0.00E+00
1976	457431.2	3767780	0.0043	2.20E-04	0.00E+00	4.30E-03	2.20E-04	0.00E+00	1.29E-03	3.96E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
1977	457421.2	3767780	0.004331	2.22E-04	0.00E+00	4.33E-03	2.22E-04	0.00E+00	1.30E-03	3.99E-05	0.00E+00	4.91E-04	1.29E-05	0.00E+00
1978	457411.3	3767780	0.004357	2.23E-04	0.00E+00	4.36E-03	2.23E-04	0.00E+00	1.30E-03	4.02E-05	0.00E+00	4.94E-04	1.30E-05	0.00E+00
1979	457401.3	3767780	0.004377	2.24E-04	0.00E+00	4.38E-03	2.24E-04	0.00E+00	1.31E-03	4.03E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
1980	457391.4	3767780	0.004389	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.31E-03	4.05E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
1981	457381.4	3767780	0.004394	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.32E-03	4.05E-05	0.00E+00	4.99E-04	1.31E-05	0.00E+00
1982	457371.5	3767780	0.004393	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.32E-03	4.05E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
1983	457361.5	3767780	0.004384	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
1984	457351.6	3767780	0.004368	2.24E-04	0.00E+00	4.37E-03	2.24E-04	0.00E+00	1.31E-03	4.03E-05	0.00E+00	4.96E-04	1.30E-05	0.00E+00
1985	457341.6	3767780	0.004344	2.23E-04	0.00E+00	4.34E-03	2.23E-04	0.00E+00	1.30E-03	4.00E-05	0.00E+00	4.93E-04	1.29E-05	0.00E+00
1986	457331.7	3767780	0.004314	2.21E-04	0.00E+00	4.31E-03	2.21E-04	0.00E+00	1.29E-03	3.98E-05	0.00E+00	4.89E-04	1.28E-05	0.00E+00
1987	457726.2	3767765	0.00167	8.56E-05	0.00E+00	1.67E-03	8.56E-05	0.00E+00	5.00E-04	1.54E-05	0.00E+00	1.89E-04	4.97E-06	0.00E+00
1988	457735	3767769	0.001627	8.34E-05	0.00E+00	1.63E-03	8.34E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.85E-04	4.84E-06	0.00E+00
1989	457743.8	3767773	0.001584	8.12E-05	0.00E+00	1.58E-03	8.12E-05	0.00E+00	4.74E-04	1.46E-05	0.00E+00	1.80E-04	4.71E-06	0.00E+00
1990	457752.6	3767776	0.001543	7.91E-05	0.00E+00	1.54E-03	7.91E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
1991	457761.4	3767780	0.001502	7.70E-05	0.00E+00	1.50E-03	7.70E-05	0.00E+00	4.50E-04	1.38E-05	0.00E+00	1.70E-04	4.47E-06	0.00E+00
1992	457770.2	3767783	0.001463	7.50E-05	0.00E+00	1.46E-03	7.50E-05	0.00E+00	4.38E-04	1.35E-05	0.00E+00	1.66E-04	4.35E-06	0.00E+00
1993	457779	3767787	0.001425	7.31E-05	0.00E+00	1.43E-03	7.31E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
1994	457787.8	3767791	0.001389	7.12E-05	0.00E+00	1.39E-03	7.12E-05	0.00E+00	4.16E-04	1.28E-05	0.00E+00	1.58E-04	4.13E-06	0.00E+00
1995	457796.6	3767794	0.001355	6.94E-05	0.00E+00	1.35E-03	6.94E-05	0.00E+00	4.06E-04	1.25E-05	0.00E+00	1.54E-04	4.03E-06	0.00E+00
1996	457805.4	3767798	0.001321	6.77E-05	0.00E+00	1.32E-03	6.77E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
1997	457814.2	3767801	0.00129	6.61E-05	0.00E+00	1.29E-03	6.61E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
1998	457823	3767805	0.00126	6.46E-05	0.00E+00	1.26E-03	6.46E-05	0.00E+00	3.77E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
1999	457831.8	3767809	0.001232	6.31E-05	0.00E+00	1.23E-03	6.31E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.66E-06	0.00E+00
2000	457840.6	3767812	0.001205	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
2001	457849.4	3767816	0.00118	6.05E-05	0.00E+00	1.18E-03	6.05E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
2002	457858.2	3767819	0.001157	5.93E-05	0.00E+00	1.16E-03	5.93E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.31E-04	3.44E-06	0.00E+00
2003	457867	3767823	0.001136	5.82E-05	0.00E+00	1.14E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
2004	457875.8	3767827	0.001115	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
2005	457919.4	3767895	0.001243	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
2006	457923.1	3767904	0.001277	6.55E-05	0.00E+00	1.28E-03	6.55E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
2007	457926.8	3767913	0.001314	6.74E-05	0.00E+00	1.31E-03	6.74E-05	0.00E+00	3.94E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
2008	457930.5	3767921	0.001355	6.94E-05	0.00E+00	1.35E-03	6.94E-05	0.00E+00	4.06E-04	1.25E-05	0.00E+00	1.54E-04	4.03E-06	0.00E+00
2009	457934.3	3767930	0.001398	7.17E-05	0.00E+00	1.40E-03	7.17E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.16E-06	0.00E+00
2010	457938	3767939	0.001445	7.41E-05	0.00E+00	1.45E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
2011	457941.7	3767948	0.001496	7.67E-05	0.00E+00	1.50E-03	7.67E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
2012	457945.4	3767956	0.001551	7.95E-05	0.00E+00	1.55E-03	7.95E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
2013	457949.1	3767965	0.001611	8.26E-05	0.00E+00	1.61E-03	8.26E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00

2014	457952.9	3767974	0.001674	8.58E-05	0.00E+00	1.67E-03	8.58E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
2015	457956.6	3767983	0.001742	8.93E-05	0.00E+00	1.74E-03	8.93E-05	0.00E+00	5.22E-04	1.61E-05	0.00E+00	1.98E-04	5.18E-06	0.00E+00
2016	457960.3	3767991	0.001813	9.29E-05	0.00E+00	1.81E-03	9.29E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.39E-06	0.00E+00
2017	457964	3768000	0.001887	9.67E-05	0.00E+00	1.89E-03	9.67E-05	0.00E+00	5.65E-04	1.74E-05	0.00E+00	2.14E-04	5.61E-06	0.00E+00
2018	457967.7	3768009	0.001964	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.88E-04	1.81E-05	0.00E+00	2.23E-04	5.84E-06	0.00E+00
2019	457971.5	3768018	0.002043	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
2020	457689.8	3767755	0.00188	9.64E-05	0.00E+00	1.88E-03	9.64E-05	0.00E+00	5.63E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
2021	457679.9	3767755	0.001959	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
2022	457669.9	3767755	0.002041	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.32E-04	6.07E-06	0.00E+00
2023	457660	3767755	0.002125	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.36E-04	1.96E-05	0.00E+00	2.41E-04	6.32E-06	0.00E+00
2024	457650	3767755	0.00221	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.62E-04	2.04E-05	0.00E+00	2.51E-04	6.58E-06	0.00E+00
2025	457640.1	3767755	0.002297	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.88E-04	2.12E-05	0.00E+00	2.61E-04	6.84E-06	0.00E+00
2026	457630.1	3767755	0.002386	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.15E-04	2.20E-05	0.00E+00	2.71E-04	7.10E-06	0.00E+00
2027	457620.2	3767755	0.002476	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.42E-04	2.28E-05	0.00E+00	2.81E-04	7.37E-06	0.00E+00
2028	457610.2	3767755	0.002567	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.69E-04	2.37E-05	0.00E+00	2.91E-04	7.64E-06	0.00E+00
2029	457600.3	3767755	0.002659	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.96E-04	2.45E-05	0.00E+00	3.02E-04	7.91E-06	0.00E+00
2030	457590.3	3767755	0.00275	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.24E-04	2.54E-05	0.00E+00	3.12E-04	8.18E-06	0.00E+00
2031	457580.4	3767755	0.002841	1.46E-04	0.00E+00	2.84E-03	1.46E-04	0.00E+00	8.51E-04	2.62E-05	0.00E+00	3.22E-04	8.45E-06	0.00E+00
2032	457570.4	3767755	0.002931	1.50E-04	0.00E+00	2.93E-03	1.50E-04	0.00E+00	8.78E-04	2.70E-05	0.00E+00	3.33E-04	8.72E-06	0.00E+00
2033	457560.5	3767755	0.003019	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.04E-04	2.78E-05	0.00E+00	3.43E-04	8.98E-06	0.00E+00
2034	457550.5	3767755	0.003105	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.30E-04	2.86E-05	0.00E+00	3.52E-04	9.24E-06	0.00E+00
2035	457540.6	3767755	0.003188	1.63E-04	0.00E+00	3.19E-03	1.63E-04	0.00E+00	9.55E-04	2.94E-05	0.00E+00	3.62E-04	9.49E-06	0.00E+00
2036	457530.6	3767755	0.003269	1.68E-04	0.00E+00	3.27E-03	1.68E-04	0.00E+00	9.79E-04	3.01E-05	0.00E+00	3.71E-04	9.73E-06	0.00E+00
2037	457520.7	3767755	0.003348	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.96E-06	0.00E+00
2038	457510.7	3767755	0.003424	1.76E-04	0.00E+00	3.42E-03	1.76E-04	0.00E+00	1.03E-03	3.16E-05	0.00E+00	3.88E-04	1.02E-05	0.00E+00
2039	457500.8	3767755	0.003496	1.79E-04	0.00E+00	3.50E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.97E-04	1.04E-05	0.00E+00
2040	457490.8	3767755	0.003564	1.83E-04	0.00E+00	3.56E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
2041	457480.9	3767755	0.003628	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
2042	457470.9	3767755	0.003687	1.89E-04	0.00E+00	3.69E-03	1.89E-04	0.00E+00	1.10E-03	3.40E-05	0.00E+00	4.18E-04	1.10E-05	0.00E+00
2043	457461	3767755	0.00374	1.92E-04	0.00E+00	3.74E-03	1.92E-04	0.00E+00	1.12E-03	3.45E-05	0.00E+00	4.24E-04	1.11E-05	0.00E+00
2044	457451	3767755	0.003788	1.94E-04	0.00E+00	3.79E-03	1.94E-04	0.00E+00	1.13E-03	3.49E-05	0.00E+00	4.30E-04	1.13E-05	0.00E+00
2045	457441.1	3767755	0.003832	1.96E-04	0.00E+00	3.83E-03	1.96E-04	0.00E+00	1.15E-03	3.53E-05	0.00E+00	4.35E-04	1.14E-05	0.00E+00
2046	457431.1	3767755	0.00387	1.98E-04	0.00E+00	3.87E-03	1.98E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.39E-04	1.15E-05	0.00E+00
2047	457421.2	3767755	0.003903	2.00E-04	0.00E+00	3.90E-03	2.00E-04	0.00E+00	1.17E-03	3.60E-05	0.00E+00	4.43E-04	1.16E-05	0.00E+00
2048	457411.2	3767755	0.003931	2.02E-04	0.00E+00	3.93E-03	2.02E-04	0.00E+00	1.18E-03	3.62E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
2049	457401.3	3767755	0.003953	2.03E-04	0.00E+00	3.95E-03	2.03E-04	0.00E+00	1.18E-03	3.64E-05	0.00E+00	4.48E-04	1.18E-05	0.00E+00
2050	457391.3	3767755	0.003969	2.03E-04	0.00E+00	3.97E-03	2.03E-04	0.00E+00	1.19E-03	3.66E-05	0.00E+00	4.50E-04	1.18E-05	0.00E+00
2051	457381.4	3767755	0.003979	2.04E-04	0.00E+00	3.98E-03	2.04E-04	0.00E+00	1.19E-03	3.67E-05	0.00E+00	4.51E-04	1.18E-05	0.00E+00
2052	457371.5	3767755	0.003982	2.04E-04	0.00E+00	3.98E-03	2.04E-04	0.00E+00	1.19E-03	3.67E-05	0.00E+00	4.52E-04	1.19E-05	0.00E+00
2053	457361.5	3767755	0.00398	2.04E-04	0.00E+00	3.98E-03	2.04E-04	0.00E+00	1.19E-03	3.67E-05	0.00E+00	4.52E-04	1.18E-05	0.00E+00
2054	457351.6	3767755	0.003972	2.04E-04	0.00E+00	3.97E-03	2.04E-04	0.00E+00	1.19E-03	3.66E-05	0.00E+00	4.51E-04	1.18E-05	0.00E+00
2055	457341.6	3767755	0.003957	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.49E-04	1.18E-05	0.00E+00
2056	457331.7	3767755	0.003936	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.63E-05	0.00E+00	4.47E-04	1.17E-05	0.00E+00
2057	457727.3	3767741	0.001544	7.91E-05	0.00E+00	1.54E-03	7.91E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
2058	457736.5	3767745	0.001503	7.71E-05	0.00E+00	1.50E-03	7.71E-05	0.00E+00	4.50E-04	1.39E-05	0.00E+00	1.71E-04	4.47E-06	0.00E+00
2059	457745.6	3767748	0.001464	7.51E-05	0.00E+00	1.46E-03	7.51E-05	0.00E+00	4.39E-04	1.35E-05	0.00E+00	1.66E-04	4.36E-06	0.00E+00
2060	457754.8	3767752	0.001426	7.31E-05	0.00E+00	1.43E-03	7.31E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
2061	457764	3767756	0.001389	7.12E-05	0.00E+00	1.39E-03	7.12E-05	0.00E+00	4.16E-04	1.28E-05	0.00E+00	1.58E-04	4.13E-06	0.00E+00
2062	457773.2	3767760	0.001353	6.94E-05	0.00E+00	1.35E-03	6.94E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.03E-06	0.00E+00
2063	457782.4	3767763	0.001318	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.21E-05	0.00E+00	1.50E-04	3.92E-06	0.00E+00
2064	457791.6	3767767	0.001284	6.58E-05	0.00E+00	1.28E-03	6.58E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
2065	457800.7	3767771	0.001252	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
2066	457809.9	3767775	0.001221	6.26E-05	0.00E+00	1.22E-03	6.26E-05	0.00E+00	3.66E-04	1.13E-05	0.00E+00	1.39E-04	3.63E-06	0.00E+00
2067	457819.1	3767778	0.001191	6.11E-05	0.00E+00	1.19E-03	6.11E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
2068	457828.3	3767782	0.001163	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
2069	457837.5	3767786	0.001137	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
2070	457846.6	3767790	0.001111	5.70E-05	0.00E+00	1.11E-03	5.70E-05	0.00E+00	3.33E-04	1.02E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
2071	457855.8	3767794	0.001088	5.58E-05	0.00E+00	1.09E-03	5.58E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.24E-06	0.00E+00
2072	457865	3767797	0.001065	5.46E-05	0.00E+00	1.07E-03	5.46E-05	0.00E+00	3.19E-04	9.82E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
2073	457874.2	3767801	0.001044	5.35E-05	0.00E+00	1.04E-03	5.35E-05	0.00E+00	3.13E-04	9.63E-06	0.00E+00	1.18E-04	3.11E-06	0.00E+00
2074	457883.4	3767805	0.001025	5.25E-05	0.00E+00	1.03E-03	5.25E-05	0.00E+00	3.07E-04	9.45E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
2075	457892.6	3767809	0.001007	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.02E-04	9.28E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
2076	457901.7	3767812	0.00099	5.08E-05	0.00E+00	9.90E-04	5.08E-05	0.00E+00	2.97E-04	9.13E-06	0.00E+00	1.12E-04	2.95E-06	0.00E+00
2077	457914.8	3767825	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.12E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
2078	457945.8	3767898	0.001178	6.04E-05	0.00E+00	1.18E-03	6.04E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.50E-06	0.00E+00
2079	457949.7	3767907	0.001212	6.22E-05	0.00E+00	1.21E-03	6.22E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.38E-04	3.61E-06	0.00E+00
2080	457953.6	3767917	0.00125	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
2081	457957.5	3767926	0.001291	6.62E-05	0.00E+00	1.29E-03	6.62E-05	0.00E+00	3.87E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
2082	457961.4	3767935	0.001336	6.85E-05	0.00E+00	1.34E-03	6.85E-05	0.00E+00	4.00E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
2083	457965.2	3767944	0.001384	7.10E-05	0.00E+00	1.38E-03	7.10E-05	0.00E+00	4.15E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
2084	457969.1	3767953	0.001436	7.36E-05	0.00E+00	1.44E-03	7.36E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
2085	457973	3767962	0.001492	7.65E-05	0.00E+00	1.49E-03	7.65E-05	0.00E+00	4.47E-04	1.38E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00
2086	457976.9	3767971	0.001551	7.95E-05	0.00E+00	1.55E-03	7.95E-05	0.00E+00	4.65E-04	1.43E-05	0.00E+00	1.76E-04	4.62E-06	0.00E+00
2087	457980.8	3767980	0.001614	8.27E-05	0.00E+00	1.61E-03	8.27E-05	0.00E+00	4.83E-04	1.49E-05	0.00E+00	1.83E-04	4.80E-06	0.00E+00
2088	457984.7	3767990	0.001679	8.61E-05	0.00E+00	1.68E-03	8.61E-05	0.00E+00	5.03E-04	1.55E-05	0.00E+00	1.90E-04	5.00E-06	0.00E+00
2089	457988.5	3767999	0.001747	8.95E-05	0.00E+00	1.75E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
2090	457992.4	3768008	0.001817	9.31E-05	0.00E+00	1.82E-03	9.31E-05	0.00E+00	5.44E-04	1.67E-05	0.00E+00	2.06E-04	5.41E-06	0.00E+00
2091	457996.3	3768017	0.001889	9.69E-05	0.00E+00	1.89E-03	9.69E-05	0.00E+00	5.66E-04	1.74E-05	0.00E+00	2.14E-04	5.62E-06	0.00E+00
2092	457689.8	3767730	0.001734	8.89E-05	0.00E+00	1.73E-03	8.89E-05	0.00E+00	5.19E-04	1.60E-05	0.00E+00	1.97E-04	5.16E-06	0.00E+00
2093	457679.8	3767730	0.001803	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.05E-04	5.36E-06	0.00E+00
2094	457669.9	3767730	0.001874	9.61E-05	0.00E+00	1.87E-03	9.61E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.13E-04	5.58E-06	0.00E+00
2095	457659.9	3767730	0.001947	9.98E-05	0.00E+00	1.95E-03	9.98E-05	0.00E+00	5.83E-04	1.79E-05	0.00E+00	2.21E-04	5.79E-06	0.00E+00
2096	457650	3767730	0.002022	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.86E-05	0.00E+00	2.29E-04	6.02E-06	0.00E+00
2097	457640	3767730	0.002098	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
2098	457630.1	3767730	0.002176	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.52E-04	2.01E-05	0.00E+00	2.47E-04	6.47E-06	0.00E+00
2099	457620.1	3767730	0.002254	1.16E-04	0.00E+00	2.25E-03	1.16E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
2100	457610.2	3767730	0.002334	1.20E-04	0.00E+00	2.33E-03	1.20E-04	0.00E+00	6.99E-04	2.15E-05	0.00E+00	2.65E-04	6.95E-06	0.00E+00
2101	457600.2	3767730	0.002414	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.23E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
2102	457590.3	3767730	0.002494	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.47E-04	2.30E-05	0.00E+00	2.83E-04	7.42E-06	0.00E+00
2103	457580.3	3767730	0.002574	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.71E-04	2.37E-05	0.00E+00	2.92E-04	7.66E-06	0.00E+00
2104	457570.4	3767730	0.002653	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.95E-04	2.45E-05	0.00E+00	3.01E-04	7.89E-06	0.00E+00
2105	457560.4	3767730	0.00273	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.12E-06	0.00E+00
2106	457550.5	3767730	0.002805	1.44E-04	0.00E+00	2.80E-03	1.44E-04	0.00E+00	8.40E-04	2.59E-05	0.00E+00	3.18E-04	8.35E-06	0.00E+00
2107	457540.5	3767730	0.002878	1.48E-04	0.00E+00	2.88E-03	1.48E-04	0.00E+00	8.62E-04	2.65E-05	0.00E+00	3.27E-04	8.57E-06	0.00E+00
2108	457530.6	3767730	0.002951	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.84E-04	2.72E-05	0.00E+00	3.35E-04	8.78E-06	0.00E+00
2109	457520.6	3767730	0.003022	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.05E-04	2.79E-05	0.00E+00	3.43E-04	8.99E-06	0.00E+00

2110	457510.7	3767730	0.00309	1.58E-04	0.00E+00	3.09E-03	1.58E-04	0.00E+00	9.26E-04	2.85E-05	0.00E+00	3.51E-04	9.20E-06	0.00E+00
2111	457500.7	3767730	0.003156	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.45E-04	2.91E-05	0.00E+00	3.58E-04	9.39E-06	0.00E+00
2112	457490.8	3767730	0.003218	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.64E-04	2.97E-05	0.00E+00	3.65E-04	9.58E-06	0.00E+00
2113	457480.8	3767730	0.003276	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.81E-04	3.02E-05	0.00E+00	3.72E-04	9.75E-06	0.00E+00
2114	457470.9	3767730	0.003329	1.71E-04	0.00E+00	3.33E-03	1.71E-04	0.00E+00	9.97E-04	3.07E-05	0.00E+00	3.78E-04	9.91E-06	0.00E+00
2115	457461	3767730	0.003378	1.73E-04	0.00E+00	3.38E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.01E-05	0.00E+00
2116	457451	3767730	0.003423	1.75E-04	0.00E+00	3.42E-03	1.75E-04	0.00E+00	1.03E-03	3.16E-05	0.00E+00	3.88E-04	1.02E-05	0.00E+00
2117	457441.1	3767730	0.003465	1.78E-04	0.00E+00	3.46E-03	1.78E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
2118	457431.1	3767730	0.003503	1.80E-04	0.00E+00	3.50E-03	1.80E-04	0.00E+00	1.05E-03	3.23E-05	0.00E+00	3.97E-04	1.04E-05	0.00E+00
2119	457421.2	3767730	0.003536	1.81E-04	0.00E+00	3.54E-03	1.81E-04	0.00E+00	1.06E-03	3.26E-05	0.00E+00	4.01E-04	1.05E-05	0.00E+00
2120	457411.2	3767730	0.003564	1.83E-04	0.00E+00	3.56E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
2121	457401.3	3767730	0.003587	1.84E-04	0.00E+00	3.59E-03	1.84E-04	0.00E+00	1.07E-03	3.31E-05	0.00E+00	4.07E-04	1.07E-05	0.00E+00
2122	457391.3	3767730	0.003605	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
2123	457381.4	3767730	0.003618	1.86E-04	0.00E+00	3.62E-03	1.86E-04	0.00E+00	1.08E-03	3.34E-05	0.00E+00	4.11E-04	1.08E-05	0.00E+00
2124	457371.4	3767730	0.003626	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.11E-04	1.08E-05	0.00E+00
2125	457361.5	3767730	0.003629	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
2126	457351.5	3767730	0.003626	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.11E-04	1.08E-05	0.00E+00
2127	457341.6	3767730	0.003618	1.85E-04	0.00E+00	3.62E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.10E-04	1.08E-05	0.00E+00
2128	457331.6	3767730	0.003604	1.85E-04	0.00E+00	3.60E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
2129	457727.1	3767716	0.001438	7.37E-05	0.00E+00	1.44E-03	7.37E-05	0.00E+00	4.31E-04	1.33E-05	0.00E+00	1.63E-04	4.28E-06	0.00E+00
2130	457736.3	3767720	0.001403	7.19E-05	0.00E+00	1.40E-03	7.19E-05	0.00E+00	4.20E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
2131	457745.4	3767723	0.001368	7.01E-05	0.00E+00	1.37E-03	7.01E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
2132	457754.6	3767727	0.001334	6.84E-05	0.00E+00	1.33E-03	6.84E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
2133	457763.7	3767731	0.0013	6.67E-05	0.00E+00	1.30E-03	6.67E-05	0.00E+00	3.89E-04	1.20E-05	0.00E+00	1.48E-04	3.87E-06	0.00E+00
2134	457772.9	3767735	0.001268	6.50E-05	0.00E+00	1.27E-03	6.50E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.77E-06	0.00E+00
2135	457782.1	3767738	0.001237	6.34E-05	0.00E+00	1.24E-03	6.34E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
2136	457791.2	3767742	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
2137	457800.4	3767746	0.001177	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
2138	457809.5	3767750	0.001148	5.89E-05	0.00E+00	1.15E-03	5.89E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.42E-06	0.00E+00
2139	457818.7	3767753	0.001121	5.75E-05	0.00E+00	1.12E-03	5.75E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.34E-06	0.00E+00
2140	457827.8	3767757	0.001095	5.61E-05	0.00E+00	1.09E-03	5.61E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
2141	457837	3767761	0.00107	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.20E-04	9.86E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
2142	457846.1	3767765	0.001046	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.65E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
2143	457855.3	3767768	0.001024	5.25E-05	0.00E+00	1.02E-03	5.25E-05	0.00E+00	3.07E-04	9.44E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
2144	457864.4	3767772	0.001003	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.24E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
2145	457873.6	3767776	0.000982	5.04E-05	0.00E+00	9.82E-04	5.04E-05	0.00E+00	2.94E-04	9.05E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
2146	457882.7	3767780	0.000963	4.94E-05	0.00E+00	9.63E-04	4.94E-05	0.00E+00	2.89E-04	8.88E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
2147	457891.9	3767783	0.000946	4.85E-05	0.00E+00	9.46E-04	4.85E-05	0.00E+00	2.83E-04	8.72E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
2148	457901	3767787	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
2149	457910.2	3767791	0.000914	4.68E-05	0.00E+00	9.14E-04	4.68E-05	0.00E+00	2.74E-04	8.42E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
2150	457919.3	3767795	0.000899	4.61E-05	0.00E+00	8.99E-04	4.61E-05	0.00E+00	2.69E-04	8.29E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
2151	457932.3	3767807	0.000898	4.60E-05	0.00E+00	8.98E-04	4.60E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
2152	457936.2	3767816	0.000911	4.67E-05	0.00E+00	9.11E-04	4.67E-05	0.00E+00	2.73E-04	8.40E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
2153	457940.1	3767826	0.000926	4.75E-05	0.00E+00	9.26E-04	4.75E-05	0.00E+00	2.77E-04	8.53E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
2154	457971	3767898	0.00111	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.33E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
2155	457974.9	3767907	0.001143	5.86E-05	0.00E+00	1.14E-03	5.86E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.30E-04	3.40E-06	0.00E+00
2156	457978.8	3767917	0.001179	6.05E-05	0.00E+00	1.18E-03	6.05E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
2157	457982.6	3767926	0.001218	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
2158	457986.5	3767935	0.00126	6.46E-05	0.00E+00	1.26E-03	6.46E-05	0.00E+00	3.77E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
2159	457990.4	3767944	0.001305	6.69E-05	0.00E+00	1.30E-03	6.69E-05	0.00E+00	3.91E-04	1.20E-05	0.00E+00	1.48E-04	3.88E-06	0.00E+00
2160	457994.2	3767953	0.001353	6.94E-05	0.00E+00	1.35E-03	6.94E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.03E-06	0.00E+00
2161	457998.1	3767962	0.001403	7.19E-05	0.00E+00	1.40E-03	7.19E-05	0.00E+00	4.20E-04	1.29E-05	0.00E+00	1.59E-04	4.18E-06	0.00E+00
2162	458002	3767971	0.001457	7.47E-05	0.00E+00	1.46E-03	7.47E-05	0.00E+00	4.36E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
2163	458005.8	3767980	0.001512	7.75E-05	0.00E+00	1.51E-03	7.75E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
2164	458009.7	3767989	0.00157	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
2165	458013.6	3767999	0.001631	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.89E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
2166	458017.4	3768008	0.001694	8.68E-05	0.00E+00	1.69E-03	8.68E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.04E-06	0.00E+00
2167	458021.3	3768017	0.001759	9.02E-05	0.00E+00	1.76E-03	9.02E-05	0.00E+00	5.27E-04	1.62E-05	0.00E+00	2.00E-04	5.23E-06	0.00E+00
2168	457689.7	3767705	0.001607	8.24E-05	0.00E+00	1.61E-03	8.24E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
2169	457679.8	3767705	0.001667	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
2170	457669.8	3767705	0.001729	8.87E-05	0.00E+00	1.73E-03	8.87E-05	0.00E+00	5.18E-04	1.59E-05	0.00E+00	1.96E-04	5.15E-06	0.00E+00
2171	457659.9	3767705	0.001793	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.34E-06	0.00E+00
2172	457649.9	3767705	0.001859	9.53E-05	0.00E+00	1.86E-03	9.53E-05	0.00E+00	5.57E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
2173	457640	3767705	0.001926	9.88E-05	0.00E+00	1.93E-03	9.88E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.19E-04	5.73E-06	0.00E+00
2174	457630	3767705	0.001995	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.94E-06	0.00E+00
2175	457620.1	3767705	0.002064	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
2176	457610.1	3767705	0.002134	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.39E-04	1.97E-05	0.00E+00	2.42E-04	6.35E-06	0.00E+00
2177	457600.2	3767705	0.002204	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00
2178	457590.2	3767705	0.002274	1.17E-04	0.00E+00	2.27E-03	1.17E-04	0.00E+00	6.81E-04	2.10E-05	0.00E+00	2.58E-04	6.77E-06	0.00E+00
2179	457580.3	3767705	0.002344	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.02E-04	2.16E-05	0.00E+00	2.66E-04	6.98E-06	0.00E+00
2180	457570.4	3767705	0.002413	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.22E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
2181	457560.4	3767705	0.002482	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.82E-04	7.39E-06	0.00E+00
2182	457550.5	3767705	0.002549	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.63E-04	2.35E-05	0.00E+00	2.89E-04	7.59E-06	0.00E+00
2183	457540.5	3767705	0.002615	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.83E-04	2.41E-05	0.00E+00	2.97E-04	7.78E-06	0.00E+00
2184	457530.6	3767705	0.00268	1.37E-04	0.00E+00	2.68E-03	1.37E-04	0.00E+00	8.03E-04	2.47E-05	0.00E+00	3.04E-04	7.98E-06	0.00E+00
2185	457520.6	3767705	0.002744	1.41E-04	0.00E+00	2.74E-03	1.41E-04	0.00E+00	8.22E-04	2.53E-05	0.00E+00	3.11E-04	8.16E-06	0.00E+00
2186	457510.7	3767705	0.002805	1.44E-04	0.00E+00	2.80E-03	1.44E-04	0.00E+00	8.40E-04	2.59E-05	0.00E+00	3.18E-04	8.35E-06	0.00E+00
2187	457500.7	3767705	0.002864	1.47E-04	0.00E+00	2.86E-03	1.47E-04	0.00E+00	8.58E-04	2.64E-05	0.00E+00	3.25E-04	8.52E-06	0.00E+00
2188	457490.8	3767705	0.00292	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.75E-04	2.69E-05	0.00E+00	3.31E-04	8.69E-06	0.00E+00
2189	457480.8	3767705	0.002974	1.52E-04	0.00E+00	2.97E-03	1.52E-04	0.00E+00	8.91E-04	2.74E-05	0.00E+00	3.37E-04	8.85E-06	0.00E+00
2190	457470.9	3767705	0.003023	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.05E-04	2.79E-05	0.00E+00	3.43E-04	8.99E-06	0.00E+00
2191	457460.9	3767705	0.003068	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.19E-04	2.83E-05	0.00E+00	3.48E-04	9.13E-06	0.00E+00
2192	457451	3767705	0.00311	1.59E-04	0.00E+00	3.11E-03	1.59E-04	0.00E+00	9.31E-04	2.87E-05	0.00E+00	3.53E-04	9.25E-06	0.00E+00
2193	457441	3767705	0.003149	1.61E-04	0.00E+00	3.15E-03	1.61E-04	0.00E+00	9.43E-04	2.90E-05	0.00E+00	3.57E-04	9.37E-06	0.00E+00
2194	457431.1	3767705	0.003185	1.63E-04	0.00E+00	3.19E-03	1.63E-04	0.00E+00	9.54E-04	2.94E-05	0.00E+00	3.61E-04	9.48E-06	0.00E+00
2195	457421.1	3767705	0.003218	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.64E-04	2.97E-05	0.00E+00	3.65E-04	9.57E-06	0.00E+00
2196	457411.2	3767705	0.003245	1.66E-04	0.00E+00	3.25E-03	1.66E-04	0.00E+00	9.72E-04	2.99E-05	0.00E+00	3.68E-04	9.66E-06	0.00E+00
2197	457401.2	3767705	0.003269	1.68E-04	0.00E+00	3.27E-03	1.68E-04	0.00E+00	9.79E-04	3.01E-05	0.00E+00	3.71E-04	9.73E-06	0.00E+00
2198	457391.3	3767705	0.003289	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.85E-04	3.03E-05	0.00E+00	3.73E-04	9.79E-06	0.00E+00
2199	457381.3	3767705	0.003304	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.90E-04	3.05E-05	0.00E+00	3.75E-04	9.83E-06	0.00E+00
2200	457371.4	3767705	0.003314	1.70E-04	0.00E+00	3.31E-03	1.70E-04	0.00E+00	9.93E-04	3.06E-05	0.00E+00	3.76E-04	9.86E-06	0.00E+00
2201	457361.4	3767705	0.00332	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.94E-04	3.06E-05	0.00E+00	3.77E-04	9.88E-06	0.00E+00
2202	457351.5	3767705	0.003321	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.95E-04	3.06E-05	0.00E+00	3.77E-04	9.88E-06	0.00E+00
2203	457341.5	3767705	0.003317	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.94E-04	3.06E-05	0.00E+00	3.76E-04	9.87E-06	0.00E+00
2204	457331.6	3767705	0.003309	1.70E-04	0.00E+00	3.31E-03	1.70E-04	0.00E+00	9.91E-04	3.05E-05	0.00E+00	3.75E-04	9.85E-06	0.00E+00
2205	457727	3767691	0.001345	6.90E-05	0.00E+00	1.35E-03	6.90E-05	0.00E+00	4.03E-04	1.24E-05	0.00E+00	1.53E-04	4.00E-06	0.00E+00

2206	457736.2	3767695	0.001313	6.73E-05	0.00E+00	1.31E-03	6.73E-05	0.00E+00	3.93E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
2207	457745.3	3767698	0.001282	6.57E-05	0.00E+00	1.28E-03	6.57E-05	0.00E+00	3.84E-04	1.18E-05	0.00E+00	1.45E-04	3.82E-06	0.00E+00
2208	457754.4	3767702	0.001251	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
2209	457763.5	3767706	0.001221	6.26E-05	0.00E+00	1.22E-03	6.26E-05	0.00E+00	3.66E-04	1.13E-05	0.00E+00	1.39E-04	3.63E-06	0.00E+00
2210	457772.7	3767709	0.001192	6.11E-05	0.00E+00	1.19E-03	6.11E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
2211	457781.8	3767713	0.001164	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
2212	457790.9	3767717	0.001136	5.82E-05	0.00E+00	1.14E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
2213	457800	3767721	0.001109	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
2214	457809.2	3767724	0.001083	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.99E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
2215	457818.3	3767728	0.001058	5.43E-05	0.00E+00	1.06E-03	5.43E-05	0.00E+00	3.17E-04	9.76E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
2216	457827.4	3767732	0.001034	5.30E-05	0.00E+00	1.03E-03	5.30E-05	0.00E+00	3.10E-04	9.53E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
2217	457836.5	3767736	0.001011	5.18E-05	0.00E+00	1.01E-03	5.18E-05	0.00E+00	3.03E-04	9.32E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
2218	457845.7	3767739	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.12E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
2219	457854.8	3767743	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
2220	457863.9	3767747	0.000948	4.86E-05	0.00E+00	9.48E-04	4.86E-05	0.00E+00	2.84E-04	8.74E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
2221	457873	3767751	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
2222	457882.2	3767754	0.00091	4.67E-05	0.00E+00	9.10E-04	4.67E-05	0.00E+00	2.73E-04	8.39E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
2223	457891.3	3767758	0.000893	4.58E-05	0.00E+00	8.93E-04	4.58E-05	0.00E+00	2.67E-04	8.23E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
2224	457900.4	3767762	0.000877	4.49E-05	0.00E+00	8.77E-04	4.49E-05	0.00E+00	2.63E-04	8.08E-06	0.00E+00	9.95E-05	2.61E-06	0.00E+00
2225	457909.5	3767766	0.000861	4.42E-05	0.00E+00	8.61E-04	4.42E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
2226	457918.7	3767769	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
2227	457927.8	3767773	0.000834	4.27E-05	0.00E+00	8.34E-04	4.27E-05	0.00E+00	2.50E-04	7.68E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
2228	457936.9	3767777	0.000821	4.21E-05	0.00E+00	8.21E-04	4.21E-05	0.00E+00	2.46E-04	7.57E-06	0.00E+00	9.31E-05	2.44E-06	0.00E+00
2229	457949.9	3767790	0.000819	4.20E-05	0.00E+00	8.19E-04	4.20E-05	0.00E+00	2.45E-04	7.55E-06	0.00E+00	9.30E-05	2.44E-06	0.00E+00
2230	457953.8	3767799	0.00083	4.26E-05	0.00E+00	8.30E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.42E-05	2.47E-06	0.00E+00
2231	457957.6	3767808	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
2232	457961.5	3767817	0.000856	4.39E-05	0.00E+00	8.56E-04	4.39E-05	0.00E+00	2.56E-04	7.89E-06	0.00E+00	9.71E-05	2.55E-06	0.00E+00
2233	457965.3	3767826	0.000871	4.47E-05	0.00E+00	8.71E-04	4.47E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
2234	457996.2	3767898	0.00105	5.38E-05	0.00E+00	1.05E-03	5.38E-05	0.00E+00	3.15E-04	9.68E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
2235	458000	3767908	0.001082	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.97E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
2236	458003.9	3767917	0.001116	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
2237	458007.7	3767926	0.001153	5.91E-05	0.00E+00	1.15E-03	5.91E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.43E-06	0.00E+00
2238	458011.6	3767935	0.001192	6.11E-05	0.00E+00	1.19E-03	6.11E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
2239	458015.5	3767944	0.001233	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
2240	458019.3	3767953	0.001277	6.55E-05	0.00E+00	1.28E-03	6.55E-05	0.00E+00	3.83E-04	1.18E-05	0.00E+00	1.45E-04	3.80E-06	0.00E+00
2241	458023.2	3767962	0.001323	6.78E-05	0.00E+00	1.32E-03	6.78E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
2242	458027	3767971	0.001371	7.03E-05	0.00E+00	1.37E-03	7.03E-05	0.00E+00	4.11E-04	1.26E-05	0.00E+00	1.56E-04	4.08E-06	0.00E+00
2243	458030.9	3767980	0.001421	7.29E-05	0.00E+00	1.42E-03	7.29E-05	0.00E+00	4.26E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
2244	458034.7	3767989	0.001474	7.55E-05	0.00E+00	1.47E-03	7.55E-05	0.00E+00	4.41E-04	1.36E-05	0.00E+00	1.67E-04	4.38E-06	0.00E+00
2245	458038.6	3767998	0.001528	7.83E-05	0.00E+00	1.53E-03	7.83E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.73E-04	4.55E-06	0.00E+00
2246	458042.5	3768007	0.001584	8.12E-05	0.00E+00	1.58E-03	8.12E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.71E-06	0.00E+00
2247	458046.3	3768016	0.001642	8.42E-05	0.00E+00	1.64E-03	8.42E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.89E-06	0.00E+00
2248	457689.7	3767680	0.001494	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
2249	457679.8	3767680	0.001548	7.93E-05	0.00E+00	1.55E-03	7.93E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
2250	457669.8	3767680	0.001603	8.22E-05	0.00E+00	1.60E-03	8.22E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
2251	457659.9	3767680	0.00166	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
2252	457649.9	3767680	0.001718	8.81E-05	0.00E+00	1.72E-03	8.81E-05	0.00E+00	5.15E-04	1.58E-05	0.00E+00	1.95E-04	5.11E-06	0.00E+00
2253	457640	3767680	0.001777	9.11E-05	0.00E+00	1.78E-03	9.11E-05	0.00E+00	5.32E-04	1.64E-05	0.00E+00	2.02E-04	5.29E-06	0.00E+00
2254	457630	3767680	0.001838	9.42E-05	0.00E+00	1.84E-03	9.42E-05	0.00E+00	5.50E-04	1.69E-05	0.00E+00	2.08E-04	5.47E-06	0.00E+00
2255	457620.1	3767680	0.001899	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
2256	457610.1	3767680	0.00196	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
2257	457600.2	3767680	0.002022	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.86E-05	0.00E+00	2.29E-04	6.02E-06	0.00E+00
2258	457590.2	3767680	0.002084	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
2259	457580.3	3767680	0.002145	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.43E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
2260	457570.3	3767680	0.002206	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.03E-05	0.00E+00	2.50E-04	6.57E-06	0.00E+00
2261	457560.4	3767680	0.002268	1.16E-04	0.00E+00	2.27E-03	1.16E-04	0.00E+00	6.79E-04	2.09E-05	0.00E+00	2.57E-04	6.75E-06	0.00E+00
2262	457550.4	3767680	0.002328	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.97E-04	2.15E-05	0.00E+00	2.64E-04	6.93E-06	0.00E+00
2263	457540.5	3767680	0.002388	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.15E-04	2.20E-05	0.00E+00	2.71E-04	7.11E-06	0.00E+00
2264	457530.5	3767680	0.002446	1.25E-04	0.00E+00	2.45E-03	1.25E-04	0.00E+00	7.33E-04	2.25E-05	0.00E+00	2.78E-04	7.28E-06	0.00E+00
2265	457520.6	3767680	0.002503	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.50E-04	2.31E-05	0.00E+00	2.84E-04	7.45E-06	0.00E+00
2266	457510.6	3767680	0.002558	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.66E-04	2.36E-05	0.00E+00	2.90E-04	7.61E-06	0.00E+00
2267	457500.7	3767680	0.002611	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.82E-04	2.41E-05	0.00E+00	2.96E-04	7.77E-06	0.00E+00
2268	457490.7	3767680	0.002662	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.97E-04	2.45E-05	0.00E+00	3.02E-04	7.92E-06	0.00E+00
2269	457480.8	3767680	0.002711	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.12E-04	2.50E-05	0.00E+00	3.08E-04	8.07E-06	0.00E+00
2270	457470.8	3767680	0.002756	1.41E-04	0.00E+00	2.76E-03	1.41E-04	0.00E+00	8.25E-04	2.54E-05	0.00E+00	3.13E-04	8.20E-06	0.00E+00
2271	457460.9	3767680	0.002798	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.17E-04	8.33E-06	0.00E+00
2272	457450.9	3767680	0.002838	1.45E-04	0.00E+00	2.84E-03	1.45E-04	0.00E+00	8.50E-04	2.62E-05	0.00E+00	3.22E-04	8.44E-06	0.00E+00
2273	457441	3767680	0.002875	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.61E-04	2.65E-05	0.00E+00	3.26E-04	8.55E-06	0.00E+00
2274	457431	3767680	0.002909	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.71E-04	2.68E-05	0.00E+00	3.30E-04	8.66E-06	0.00E+00
2275	457421.1	3767680	0.00294	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.81E-04	2.71E-05	0.00E+00	3.34E-04	8.75E-06	0.00E+00
2276	457411.1	3767680	0.002967	1.52E-04	0.00E+00	2.97E-03	1.52E-04	0.00E+00	8.89E-04	2.74E-05	0.00E+00	3.37E-04	8.83E-06	0.00E+00
2277	457401.2	3767680	0.002991	1.53E-04	0.00E+00	2.99E-03	1.53E-04	0.00E+00	8.96E-04	2.76E-05	0.00E+00	3.39E-04	8.90E-06	0.00E+00
2278	457391.2	3767680	0.003011	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.02E-04	2.78E-05	0.00E+00	3.42E-04	8.96E-06	0.00E+00
2279	457381.3	3767680	0.003028	1.55E-04	0.00E+00	3.03E-03	1.55E-04	0.00E+00	9.07E-04	2.79E-05	0.00E+00	3.43E-04	9.01E-06	0.00E+00
2280	457371.3	3767680	0.00304	1.56E-04	0.00E+00	3.04E-03	1.56E-04	0.00E+00	9.11E-04	2.80E-05	0.00E+00	3.45E-04	9.05E-06	0.00E+00
2281	457361.4	3767680	0.003049	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.13E-04	2.81E-05	0.00E+00	3.46E-04	9.07E-06	0.00E+00
2282	457351.4	3767680	0.003052	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
2283	457341.5	3767680	0.003051	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
2284	457331.5	3767680	0.003046	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.12E-04	2.81E-05	0.00E+00	3.46E-04	9.06E-06	0.00E+00
2285	457726.9	3767666	0.001262	6.47E-05	0.00E+00	1.26E-03	6.47E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
2286	457736	3767670	0.001233	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
2287	457745.1	3767673	0.001205	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
2288	457754.2	3767677	0.001178	6.04E-05	0.00E+00	1.18E-03	6.04E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.50E-06	0.00E+00
2289	457763.3	3767681	0.001151	5.90E-05	0.00E+00	1.15E-03	5.90E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.42E-06	0.00E+00
2290	457772.4	3767684	0.001124	5.76E-05	0.00E+00	1.12E-03	5.76E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.34E-06	0.00E+00
2291	457781.5	3767688	0.001098	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
2292	457790.6	3767692	0.001073	5.50E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.89E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
2293	457799.7	3767696	0.001049	5.38E-05	0.00E+00	1.05E-03	5.38E-05	0.00E+00	3.14E-04	9.67E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
2294	457808.8	3767699	0.001025	5.26E-05	0.00E+00	1.03E-03	5.26E-05	0.00E+00	3.07E-04	9.45E-06	0.00E+00	1.16E-04	3.05E-06	0.00E+00
2295	457818	3767703	0.001002	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.24E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
2296	457827.1	3767707	0.00098	5.02E-05	0.00E+00	9.80E-04	5.02E-05	0.00E+00	2.93E-04	9.03E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
2297	457836.2	3767711	0.000958	4.91E-05	0.00E+00	9.58E-04	4.91E-05	0.00E+00	2.87E-04	8.83E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
2298	457845.3	3767714	0.000938	4.81E-05	0.00E+00	9.38E-04	4.81E-05	0.00E+00	2.81E-04	8.64E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
2299	457854.4	3767718	0.000918	4.71E-05	0.00E+00	9.18E-04	4.71E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
2300	457863.5	3767722	0.000899	4.61E-05	0.00E+00	8.99E-04	4.61E-05	0.00E+00	2.69E-04	8.29E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
2301	457872.6	3767725	0.000881	4.52E-05	0.00E+00	8.81E-04	4.52E-05	0.00E+00	2.64E-04	8.12E-06	0.00E+00	9.99E-05	2.62E-06	0.00E+00

2302	457881.7	3767729	0.000863	4.43E-05	0.00E+00	8.63E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.80E-05	2.57E-06	0.00E+00
2303	457890.8	3767733	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
2304	457899.9	3767737	0.000831	4.26E-05	0.00E+00	8.31E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.43E-05	2.47E-06	0.00E+00
2305	457909	3767740	0.000816	4.18E-05	0.00E+00	8.16E-04	4.18E-05	0.00E+00	2.44E-04	7.52E-06	0.00E+00	9.26E-05	2.43E-06	0.00E+00
2306	457918.1	3767744	0.000802	4.11E-05	0.00E+00	8.02E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.10E-05	2.39E-06	0.00E+00
2307	457927.2	3767748	0.000789	4.04E-05	0.00E+00	7.89E-04	4.04E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.95E-05	2.35E-06	0.00E+00
2308	457936.3	3767752	0.000776	3.98E-05	0.00E+00	7.76E-04	3.98E-05	0.00E+00	2.32E-04	7.16E-06	0.00E+00	8.81E-05	2.31E-06	0.00E+00
2309	457945.4	3767755	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.05E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
2310	457954.5	3767759	0.000753	3.86E-05	0.00E+00	7.53E-04	3.86E-05	0.00E+00	2.26E-04	6.94E-06	0.00E+00	8.55E-05	2.24E-06	0.00E+00
2311	457967.4	3767772	0.000752	3.85E-05	0.00E+00	7.52E-04	3.85E-05	0.00E+00	2.25E-04	6.93E-06	0.00E+00	8.53E-05	2.24E-06	0.00E+00
2312	457971.3	3767781	0.000761	3.90E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.02E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
2313	457975.1	3767790	0.000771	3.95E-05	0.00E+00	7.71E-04	3.95E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
2314	457979	3767799	0.000783	4.01E-05	0.00E+00	7.83E-04	4.01E-05	0.00E+00	2.34E-04	7.21E-06	0.00E+00	8.88E-05	2.33E-06	0.00E+00
2315	457982.8	3767808	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
2316	457986.7	3767817	0.000809	4.15E-05	0.00E+00	8.09E-04	4.15E-05	0.00E+00	2.42E-04	7.45E-06	0.00E+00	9.17E-05	2.41E-06	0.00E+00
2317	457990.5	3767826	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
2318	458021.3	3767898	0.000997	5.11E-05	0.00E+00	9.97E-04	5.11E-05	0.00E+00	2.99E-04	9.19E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
2319	458025.2	3767908	0.001027	5.27E-05	0.00E+00	1.03E-03	5.27E-05	0.00E+00	3.08E-04	9.47E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
2320	458029	3767917	0.001059	5.43E-05	0.00E+00	1.06E-03	5.43E-05	0.00E+00	3.17E-04	9.76E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
2321	458032.9	3767926	0.001093	5.61E-05	0.00E+00	1.09E-03	5.61E-05	0.00E+00	3.27E-04	1.01E-05	0.00E+00	1.24E-04	3.25E-06	0.00E+00
2322	458036.7	3767935	0.00113	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
2323	458040.5	3767944	0.001167	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
2324	458044.4	3767953	0.001207	6.19E-05	0.00E+00	1.21E-03	6.19E-05	0.00E+00	3.62E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
2325	458048.2	3767962	0.001249	6.40E-05	0.00E+00	1.25E-03	6.40E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
2326	458052.1	3767971	0.001293	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.87E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
2327	458055.9	3767980	0.001339	6.87E-05	0.00E+00	1.34E-03	6.87E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
2328	458059.8	3767989	0.001387	7.11E-05	0.00E+00	1.39E-03	7.11E-05	0.00E+00	4.15E-04	1.28E-05	0.00E+00	1.57E-04	4.13E-06	0.00E+00
2329	458063.6	3767998	0.001436	7.36E-05	0.00E+00	1.44E-03	7.36E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
2330	458067.5	3768007	0.001486	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.42E-06	0.00E+00
2331	458071.3	3768016	0.001537	7.88E-05	0.00E+00	1.54E-03	7.88E-05	0.00E+00	4.60E-04	1.42E-05	0.00E+00	1.74E-04	4.57E-06	0.00E+00
2332	457630	3767655	0.0017	8.72E-05	0.00E+00	1.70E-03	8.72E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
2333	457620	3767655	0.001754	8.99E-05	0.00E+00	1.75E-03	8.99E-05	0.00E+00	5.25E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
2334	457610.1	3767655	0.001808	9.27E-05	0.00E+00	1.81E-03	9.27E-05	0.00E+00	5.41E-04	1.67E-05	0.00E+00	2.05E-04	5.38E-06	0.00E+00
2335	457600.1	3767655	0.001862	9.55E-05	0.00E+00	1.86E-03	9.55E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
2336	457590.2	3767655	0.001918	9.83E-05	0.00E+00	1.92E-03	9.83E-05	0.00E+00	5.74E-04	1.77E-05	0.00E+00	2.18E-04	5.71E-06	0.00E+00
2337	457580.2	3767655	0.001973	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
2338	457570.3	3767655	0.002028	1.04E-04	0.00E+00	2.03E-03	1.04E-04	0.00E+00	6.07E-04	1.87E-05	0.00E+00	2.30E-04	6.03E-06	0.00E+00
2339	457560.3	3767655	0.002083	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
2340	457550.4	3767655	0.002137	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.40E-04	1.97E-05	0.00E+00	2.42E-04	6.36E-06	0.00E+00
2341	457540.4	3767655	0.00219	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.56E-04	2.02E-05	0.00E+00	2.48E-04	6.52E-06	0.00E+00
2342	457530.5	3767655	0.002243	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.54E-04	6.67E-06	0.00E+00
2343	457520.5	3767655	0.002294	1.18E-04	0.00E+00	2.29E-03	1.18E-04	0.00E+00	6.87E-04	2.11E-05	0.00E+00	2.60E-04	6.83E-06	0.00E+00
2344	457510.6	3767655	0.002344	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.02E-04	2.16E-05	0.00E+00	2.66E-04	6.97E-06	0.00E+00
2345	457500.6	3767655	0.002391	1.23E-04	0.00E+00	2.39E-03	1.23E-04	0.00E+00	7.16E-04	2.20E-05	0.00E+00	2.71E-04	7.12E-06	0.00E+00
2346	457490.7	3767655	0.002436	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.30E-04	2.25E-05	0.00E+00	2.76E-04	7.25E-06	0.00E+00
2347	457480.7	3767655	0.00248	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.81E-04	7.38E-06	0.00E+00
2348	457470.8	3767655	0.002522	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.55E-04	2.32E-05	0.00E+00	2.86E-04	7.50E-06	0.00E+00
2349	457460.8	3767655	0.002562	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.67E-04	2.36E-05	0.00E+00	2.91E-04	7.62E-06	0.00E+00
2350	457450.9	3767655	0.0026	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.79E-04	2.40E-05	0.00E+00	2.95E-04	7.74E-06	0.00E+00
2351	457440.9	3767655	0.002635	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.89E-04	2.43E-05	0.00E+00	2.99E-04	7.84E-06	0.00E+00
2352	457431	3767655	0.002667	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	7.99E-04	2.46E-05	0.00E+00	3.03E-04	7.94E-06	0.00E+00
2353	457421	3767655	0.002697	1.38E-04	0.00E+00	2.70E-03	1.38E-04	0.00E+00	8.08E-04	2.49E-05	0.00E+00	3.06E-04	8.02E-06	0.00E+00
2354	457411.1	3767655	0.002723	1.40E-04	0.00E+00	2.72E-03	1.40E-04	0.00E+00	8.16E-04	2.51E-05	0.00E+00	3.09E-04	8.10E-06	0.00E+00
2355	457401.1	3767655	0.002747	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.23E-04	2.53E-05	0.00E+00	3.12E-04	8.17E-06	0.00E+00
2356	457391.2	3767655	0.002767	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.29E-04	2.55E-05	0.00E+00	3.14E-04	8.23E-06	0.00E+00
2357	457381.2	3767655	0.002784	1.43E-04	0.00E+00	2.78E-03	1.43E-04	0.00E+00	8.34E-04	2.57E-05	0.00E+00	3.16E-04	8.28E-06	0.00E+00
2358	457371.3	3767655	0.002798	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.17E-04	8.33E-06	0.00E+00
2359	457361.3	3767655	0.002808	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.41E-04	2.59E-05	0.00E+00	3.19E-04	8.36E-06	0.00E+00
2360	457351.4	3767655	0.002814	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.43E-04	2.59E-05	0.00E+00	3.19E-04	8.37E-06	0.00E+00
2361	457341.4	3767655	0.002816	1.44E-04	0.00E+00	2.82E-03	1.44E-04	0.00E+00	8.43E-04	2.60E-05	0.00E+00	3.19E-04	8.38E-06	0.00E+00
2362	457331.5	3767655	0.002815	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.43E-04	2.59E-05	0.00E+00	3.19E-04	8.38E-06	0.00E+00
2363	457726.8	3767641	0.001186	6.08E-05	0.00E+00	1.19E-03	6.08E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00
2364	457735.9	3767644	0.001161	5.95E-05	0.00E+00	1.16E-03	5.95E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.45E-06	0.00E+00
2365	457745	3767648	0.001136	5.82E-05	0.00E+00	1.14E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
2366	457754.1	3767652	0.001111	5.70E-05	0.00E+00	1.11E-03	5.70E-05	0.00E+00	3.33E-04	1.02E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
2367	457763.2	3767656	0.001086	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
2368	457772.2	3767659	0.001062	5.45E-05	0.00E+00	1.06E-03	5.45E-05	0.00E+00	3.18E-04	9.79E-06	0.00E+00	1.21E-04	3.16E-06	0.00E+00
2369	457781.3	3767663	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
2370	457790.4	3767667	0.001016	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.04E-04	9.37E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
2371	457799.5	3767671	0.000994	5.09E-05	0.00E+00	9.94E-04	5.09E-05	0.00E+00	2.98E-04	9.16E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
2372	457808.6	3767674	0.000972	4.98E-05	0.00E+00	9.72E-04	4.98E-05	0.00E+00	2.91E-04	8.96E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
2373	457817.7	3767678	0.000951	4.87E-05	0.00E+00	9.51E-04	4.87E-05	0.00E+00	2.85E-04	8.77E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
2374	457826.7	3767682	0.00093	4.77E-05	0.00E+00	9.30E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
2375	457835.8	3767685	0.000911	4.67E-05	0.00E+00	9.11E-04	4.67E-05	0.00E+00	2.73E-04	8.39E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
2376	457844.9	3767689	0.000891	4.57E-05	0.00E+00	8.91E-04	4.57E-05	0.00E+00	2.67E-04	8.22E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
2377	457854	3767693	0.000873	4.47E-05	0.00E+00	8.73E-04	4.47E-05	0.00E+00	2.61E-04	8.05E-06	0.00E+00	9.90E-05	2.60E-06	0.00E+00
2378	457863.1	3767697	0.000855	4.38E-05	0.00E+00	8.55E-04	4.38E-05	0.00E+00	2.56E-04	7.88E-06	0.00E+00	9.70E-05	2.54E-06	0.00E+00
2379	457872.2	3767700	0.000838	4.30E-05	0.00E+00	8.38E-04	4.30E-05	0.00E+00	2.51E-04	7.72E-06	0.00E+00	9.51E-05	2.49E-06	0.00E+00
2380	457881.2	3767704	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.57E-06	0.00E+00	9.32E-05	2.44E-06	0.00E+00
2381	457890.3	3767708	0.000806	4.13E-05	0.00E+00	8.06E-04	4.13E-05	0.00E+00	2.41E-04	7.43E-06	0.00E+00	9.14E-05	2.40E-06	0.00E+00
2382	457899.4	3767711	0.000791	4.05E-05	0.00E+00	7.91E-04	4.05E-05	0.00E+00	2.37E-04	7.29E-06	0.00E+00	8.97E-05	2.35E-06	0.00E+00
2383	457908.5	3767715	0.000777	3.98E-05	0.00E+00	7.77E-04	3.98E-05	0.00E+00	2.33E-04	7.16E-06	0.00E+00	8.81E-05	2.31E-06	0.00E+00
2384	457917.6	3767719	0.000763	3.91E-05	0.00E+00	7.63E-04	3.91E-05	0.00E+00	2.28E-04	7.03E-06	0.00E+00	8.65E-05	2.27E-06	0.00E+00
2385	457926.7	3767723	0.00075	3.84E-05	0.00E+00	7.50E-04	3.84E-05	0.00E+00	2.25E-04	6.91E-06	0.00E+00	8.51E-05	2.23E-06	0.00E+00
2386	457935.7	3767726	0.000737	3.78E-05	0.00E+00	7.37E-04	3.78E-05	0.00E+00	2.21E-04	6.80E-06	0.00E+00	8.37E-05	2.19E-06	0.00E+00
2387	457944.8	3767730	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.17E-04	6.69E-06	0.00E+00	8.23E-05	2.16E-06	0.00E+00
2388	457953.9	3767734	0.000715	3.66E-05	0.00E+00	7.15E-04	3.66E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
2389	457963	3767737	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.99E-05	2.10E-06	0.00E+00
2390	457972.1	3767741	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
2391	457985	3767754	0.000693	3.55E-05	0.00E+00	6.93E-04	3.55E-05	0.00E+00	2.07E-04	6.38E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
2392	457988.8	3767763	0.000701	3.59E-05	0.00E+00	7.01E-04	3.59E-05	0.00E+00	2.10E-04	6.46E-06	0.00E+00	7.95E-05	2.08E-06	0.00E+00
2393	457992.7	3767772	0.000709	3.64E-05	0.00E+00	7.09E-04	3.64E-05	0.00E+00	2.12E-04	6.54E-06	0.00E+00	8.05E-05	2.11E-06	0.00E+00
2394	458046.4	3767898	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
2395	458050.3	3767908	0.000977	5.01E-05	0.00E+00	9.77E-04	5.01E-05	0.00E+00	2.93E-04	9.01E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
2396	458054.1	3767917	0.001008	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
2397	458057.9	3767926	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00

2398	458061.8	3767935	0.001073	5.50E-05	0.00E+00	1.07E-03	5.50E-05	0.00E+00	3.21E-04	9.89E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
2399	458065.6	3767944	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
2400	458069.5	3767953	0.001144	5.87E-05	0.00E+00	1.14E-03	5.87E-05	0.00E+00	3.43E-04	1.05E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
2401	458073.3	3767962	0.001183	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
2402	458077.1	3767971	0.001223	6.27E-05	0.00E+00	1.22E-03	6.27E-05	0.00E+00	3.66E-04	1.13E-05	0.00E+00	1.39E-04	3.64E-06	0.00E+00
2403	458081	3767980	0.001265	6.48E-05	0.00E+00	1.26E-03	6.48E-05	0.00E+00	3.79E-04	1.17E-05	0.00E+00	1.43E-04	3.76E-06	0.00E+00
2404	458084.8	3767989	0.001308	6.70E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
2405	458088.7	3767998	0.001352	6.93E-05	0.00E+00	1.35E-03	6.93E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.02E-06	0.00E+00
2406	458092.5	3768007	0.001397	7.16E-05	0.00E+00	1.40E-03	7.16E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.59E-04	4.16E-06	0.00E+00
2407	458096.3	3768016	0.001443	7.40E-05	0.00E+00	1.44E-03	7.40E-05	0.00E+00	4.32E-04	1.33E-05	0.00E+00	1.64E-04	4.29E-06	0.00E+00
2408	457629.9	3767630	0.001577	8.09E-05	0.00E+00	1.58E-03	8.09E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
2409	457620	3767630	0.001626	8.33E-05	0.00E+00	1.63E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.84E-06	0.00E+00
2410	457610	3767630	0.001674	8.58E-05	0.00E+00	1.67E-03	8.58E-05	0.00E+00	5.02E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
2411	457600.1	3767630	0.001724	8.84E-05	0.00E+00	1.72E-03	8.84E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.96E-04	5.13E-06	0.00E+00
2412	457590.1	3767630	0.001773	9.09E-05	0.00E+00	1.77E-03	9.09E-05	0.00E+00	5.31E-04	1.63E-05	0.00E+00	2.01E-04	5.28E-06	0.00E+00
2413	457580.2	3767630	0.001822	9.34E-05	0.00E+00	1.82E-03	9.34E-05	0.00E+00	5.46E-04	1.68E-05	0.00E+00	2.07E-04	5.42E-06	0.00E+00
2414	457570.2	3767630	0.001872	9.60E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
2415	457560.3	3767630	0.001921	9.85E-05	0.00E+00	1.92E-03	9.85E-05	0.00E+00	5.75E-04	1.77E-05	0.00E+00	2.18E-04	5.72E-06	0.00E+00
2416	457550.3	3767630	0.00197	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.90E-04	1.82E-05	0.00E+00	2.23E-04	5.86E-06	0.00E+00
2417	457540.4	3767630	0.002018	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
2418	457530.4	3767630	0.002065	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.18E-04	1.90E-05	0.00E+00	2.34E-04	6.14E-06	0.00E+00
2419	457520.5	3767630	0.002111	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.32E-04	1.95E-05	0.00E+00	2.40E-04	6.28E-06	0.00E+00
2420	457510.5	3767630	0.002156	1.11E-04	0.00E+00	2.16E-03	1.11E-04	0.00E+00	6.46E-04	1.99E-05	0.00E+00	2.45E-04	6.42E-06	0.00E+00
2421	457500.6	3767630	0.002199	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.59E-04	2.03E-05	0.00E+00	2.49E-04	6.54E-06	0.00E+00
2422	457490.6	3767630	0.00224	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.71E-04	2.07E-05	0.00E+00	2.54E-04	6.67E-06	0.00E+00
2423	457480.7	3767630	0.00228	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.83E-04	2.10E-05	0.00E+00	2.59E-04	6.78E-06	0.00E+00
2424	457470.7	3767630	0.002319	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.95E-04	2.14E-05	0.00E+00	2.63E-04	6.90E-06	0.00E+00
2425	457460.8	3767630	0.002356	1.21E-04	0.00E+00	2.36E-03	1.21E-04	0.00E+00	7.06E-04	2.17E-05	0.00E+00	2.67E-04	7.01E-06	0.00E+00
2426	457450.8	3767630	0.002391	1.23E-04	0.00E+00	2.39E-03	1.23E-04	0.00E+00	7.16E-04	2.20E-05	0.00E+00	2.71E-04	7.11E-06	0.00E+00
2427	457440.9	3767630	0.002424	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.26E-04	2.23E-05	0.00E+00	2.75E-04	7.21E-06	0.00E+00
2428	457430.9	3767630	0.002454	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.35E-04	2.26E-05	0.00E+00	2.78E-04	7.30E-06	0.00E+00
2429	457421	3767630	0.002482	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.82E-04	7.39E-06	0.00E+00
2430	457411.1	3767630	0.002508	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.51E-04	2.31E-05	0.00E+00	2.85E-04	7.46E-06	0.00E+00
2431	457401.1	3767630	0.002531	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.58E-04	2.33E-05	0.00E+00	2.87E-04	7.53E-06	0.00E+00
2432	457391.2	3767630	0.002551	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.64E-04	2.35E-05	0.00E+00	2.89E-04	7.59E-06	0.00E+00
2433	457381.2	3767630	0.002568	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.69E-04	2.37E-05	0.00E+00	2.91E-04	7.64E-06	0.00E+00
2434	457371.3	3767630	0.002583	1.32E-04	0.00E+00	2.58E-03	1.32E-04	0.00E+00	7.74E-04	2.38E-05	0.00E+00	2.93E-04	7.69E-06	0.00E+00
2435	457361.3	3767630	0.002594	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.77E-04	2.39E-05	0.00E+00	2.94E-04	7.72E-06	0.00E+00
2436	457351.4	3767630	0.002603	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.95E-04	7.75E-06	0.00E+00
2437	457341.4	3767630	0.002609	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.81E-04	2.40E-05	0.00E+00	2.96E-04	7.76E-06	0.00E+00
2438	457331.5	3767630	0.002611	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.82E-04	2.41E-05	0.00E+00	2.96E-04	7.77E-06	0.00E+00
2439	457763.3	3767616	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
2440	457772.4	3767619	0.000974	4.99E-05	0.00E+00	9.74E-04	4.99E-05	0.00E+00	2.92E-04	8.98E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
2441	457781.5	3767623	0.000954	4.89E-05	0.00E+00	9.54E-04	4.89E-05	0.00E+00	2.86E-04	8.79E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
2442	457790.6	3767627	0.000934	4.79E-05	0.00E+00	9.34E-04	4.79E-05	0.00E+00	2.80E-04	8.61E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
2443	457799.7	3767631	0.000914	4.69E-05	0.00E+00	9.14E-04	4.69E-05	0.00E+00	2.74E-04	8.43E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
2444	457808.8	3767634	0.000895	4.59E-05	0.00E+00	8.95E-04	4.59E-05	0.00E+00	2.68E-04	8.25E-06	0.00E+00	1.02E-04	2.66E-06	0.00E+00
2445	457817.9	3767638	0.000876	4.49E-05	0.00E+00	8.76E-04	4.49E-05	0.00E+00	2.63E-04	8.08E-06	0.00E+00	9.94E-05	2.61E-06	0.00E+00
2446	457827.1	3767642	0.000858	4.40E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.91E-06	0.00E+00	9.74E-05	2.55E-06	0.00E+00
2447	457836.2	3767646	0.000841	4.31E-05	0.00E+00	8.41E-04	4.31E-05	0.00E+00	2.52E-04	7.75E-06	0.00E+00	9.54E-05	2.50E-06	0.00E+00
2448	457845.3	3767649	0.000824	4.22E-05	0.00E+00	8.24E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.35E-05	2.45E-06	0.00E+00
2449	457854.4	3767653	0.000807	4.14E-05	0.00E+00	8.07E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
2450	457863.5	3767657	0.000791	4.06E-05	0.00E+00	7.91E-04	4.06E-05	0.00E+00	2.37E-04	7.29E-06	0.00E+00	8.98E-05	2.35E-06	0.00E+00
2451	457872.6	3767660	0.000776	3.98E-05	0.00E+00	7.76E-04	3.98E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
2452	457881.7	3767664	0.000761	3.90E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
2453	457890.8	3767668	0.000747	3.83E-05	0.00E+00	7.47E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
2454	457899.9	3767672	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00
2455	457909	3767675	0.000719	3.69E-05	0.00E+00	7.19E-04	3.69E-05	0.00E+00	2.15E-04	6.63E-06	0.00E+00	8.16E-05	2.14E-06	0.00E+00
2456	457918.2	3767679	0.000707	3.62E-05	0.00E+00	7.07E-04	3.62E-05	0.00E+00	2.12E-04	6.51E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
2457	457927.3	3767683	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
2458	457936.4	3767687	0.000683	3.50E-05	0.00E+00	6.83E-04	3.50E-05	0.00E+00	2.04E-04	6.29E-06	0.00E+00	7.75E-05	2.03E-06	0.00E+00
2459	457945.5	3767690	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.62E-05	2.00E-06	0.00E+00
2460	457954.6	3767694	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
2461	457963.7	3767698	0.000651	3.34E-05	0.00E+00	6.51E-04	3.34E-05	0.00E+00	1.95E-04	6.00E-06	0.00E+00	7.38E-05	1.94E-06	0.00E+00
2462	457972.8	3767702	0.000641	3.29E-05	0.00E+00	6.41E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
2463	457981.9	3767705	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
2464	457991	3767709	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00
2465	458086.3	3767898	0.000878	4.50E-05	0.00E+00	8.78E-04	4.50E-05	0.00E+00	2.63E-04	8.10E-06	0.00E+00	9.97E-05	2.61E-06	0.00E+00
2466	458090.1	3767907	0.000904	4.64E-05	0.00E+00	9.04E-04	4.64E-05	0.00E+00	2.71E-04	8.33E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
2467	458094	3767916	0.000931	4.77E-05	0.00E+00	9.31E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
2468	458128.6	3767997	0.001233	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
2469	458132.5	3768006	0.001271	6.52E-05	0.00E+00	1.27E-03	6.52E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
2470	458136.3	3768015	0.00131	6.72E-05	0.00E+00	1.31E-03	6.72E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.49E-04	3.90E-06	0.00E+00
2471	457863.8	3767617	0.000736	3.77E-05	0.00E+00	7.36E-04	3.77E-05	0.00E+00	2.20E-04	6.78E-06	0.00E+00	8.35E-05	2.19E-06	0.00E+00
2472	457873	3767621	0.000722	3.70E-05	0.00E+00	7.22E-04	3.70E-05	0.00E+00	2.16E-04	6.66E-06	0.00E+00	8.19E-05	2.15E-06	0.00E+00
2473	457882.1	3767624	0.000709	3.63E-05	0.00E+00	7.09E-04	3.63E-05	0.00E+00	2.12E-04	6.53E-06	0.00E+00	8.04E-05	2.11E-06	0.00E+00
2474	457891.2	3767628	0.000696	3.57E-05	0.00E+00	6.96E-04	3.57E-05	0.00E+00	2.08E-04	6.41E-06	0.00E+00	7.89E-05	2.07E-06	0.00E+00
2475	457900.4	3767632	0.000683	3.50E-05	0.00E+00	6.83E-04	3.50E-05	0.00E+00	2.05E-04	6.29E-06	0.00E+00	7.75E-05	2.03E-06	0.00E+00
2476	457909.5	3767636	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
2477	457918.6	3767639	0.000659	3.38E-05	0.00E+00	6.59E-04	3.38E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
2478	457927.8	3767643	0.000647	3.32E-05	0.00E+00	6.47E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.34E-05	1.93E-06	0.00E+00
2479	457936.9	3767647	0.000636	3.26E-05	0.00E+00	6.36E-04	3.26E-05	0.00E+00	1.91E-04	5.87E-06	0.00E+00	7.22E-05	1.89E-06	0.00E+00
2480	457946	3767651	0.000626	3.21E-05	0.00E+00	6.26E-04	3.21E-05	0.00E+00	1.87E-04	5.77E-06	0.00E+00	7.10E-05	1.86E-06	0.00E+00
2481	457955.2	3767654	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
2482	457964.3	3767658	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.80E-06	0.00E+00
2483	457973.4	3767662	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
2484	457982.6	3767666	0.000588	3.01E-05	0.00E+00	5.88E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
2485	457991.7	3767669	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
2486	458126.1	3767897	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.27E-05	2.43E-06	0.00E+00
2487	458130	3767906	0.00084	4.31E-05	0.00E+00	8.40E-04	4.31E-05	0.00E+00	2.52E-04	7.75E-06	0.00E+00	9.53E-05	2.50E-06	0.00E+00
2488	458133.8	3767915	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.97E-06	0.00E+00	9.81E-05	2.57E-06	0.00E+00
2489	458137.7	3767924	0.00089	4.56E-05	0.00E+00	8.90E-04	4.56E-05	0.00E+00	2.67E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
2490	458141.6	3767933	0.000916	4.70E-05	0.00E+00	9.16E-04	4.70E-05	0.00E+00	2.74E-04	8.45E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
2491	458145.4	3767942	0.000944	4.84E-05	0.00E+00	9.44E-04	4.84E-05	0.00E+00	2.83E-04	8.70E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
2492	458149.3	3767951	0.000973	4.99E-05	0.00E+00	9.73E-04	4.99E-05	0.00E+00	2.91E-04	8.97E-06	0.00E+00	1.10E-04	2.90E-06	0.00E+00
2493	458153.1	3767960	0.001003	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.24E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00

2494	458157	3767970	0.001033	5.30E-05	0.00E+00	1.03E-03	5.30E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
2495	458160.9	3767979	0.001065	5.46E-05	0.00E+00	1.06E-03	5.46E-05	0.00E+00	3.19E-04	9.81E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
2496	458164.7	3767988	0.001097	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
2497	458168.6	3767997	0.001129	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
2498	458172.4	3768006	0.001162	5.96E-05	0.00E+00	1.16E-03	5.96E-05	0.00E+00	3.48E-04	1.07E-05	0.00E+00	1.32E-04	3.46E-06	0.00E+00
2499	458176.3	3768015	0.001195	6.13E-05	0.00E+00	1.19E-03	6.13E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
2500	457955.6	3767615	0.000577	2.96E-05	0.00E+00	5.77E-04	2.96E-05	0.00E+00	1.73E-04	5.32E-06	0.00E+00	6.55E-05	1.72E-06	0.00E+00
2501	457964.8	3767618	0.000568	2.91E-05	0.00E+00	5.68E-04	2.91E-05	0.00E+00	1.70E-04	5.24E-06	0.00E+00	6.44E-05	1.69E-06	0.00E+00
2502	457973.9	3767622	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
2503	457983.1	3767626	0.000551	2.82E-05	0.00E+00	5.51E-04	2.82E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
2504	458127.3	3767805	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.82E-05	1.79E-06	0.00E+00
2505	458131.2	3767814	0.000614	3.15E-05	0.00E+00	6.14E-04	3.15E-05	0.00E+00	1.84E-04	5.66E-06	0.00E+00	6.96E-05	1.83E-06	0.00E+00
2506	458135.1	3767823	0.000627	3.21E-05	0.00E+00	6.27E-04	3.21E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.11E-05	1.86E-06	0.00E+00
2507	458138.9	3767832	0.000641	3.28E-05	0.00E+00	6.41E-04	3.28E-05	0.00E+00	1.92E-04	5.90E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
2508	458142.8	3767842	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.43E-05	1.95E-06	0.00E+00
2509	458146.7	3767851	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
2510	458150.5	3767860	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.80E-05	2.05E-06	0.00E+00
2511	458154.4	3767869	0.000705	3.61E-05	0.00E+00	7.05E-04	3.61E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
2512	458158.3	3767878	0.000723	3.71E-05	0.00E+00	7.23E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.21E-05	2.15E-06	0.00E+00
2513	458162.1	3767887	0.000742	3.81E-05	0.00E+00	7.42E-04	3.81E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
2514	458166	3767896	0.000762	3.91E-05	0.00E+00	7.62E-04	3.91E-05	0.00E+00	2.28E-04	7.03E-06	0.00E+00	8.65E-05	2.27E-06	0.00E+00
2515	458169.9	3767905	0.000783	4.02E-05	0.00E+00	7.83E-04	4.02E-05	0.00E+00	2.35E-04	7.22E-06	0.00E+00	8.89E-05	2.33E-06	0.00E+00
2516	458173.7	3767914	0.000806	4.13E-05	0.00E+00	8.06E-04	4.13E-05	0.00E+00	2.41E-04	7.43E-06	0.00E+00	9.14E-05	2.40E-06	0.00E+00
2517	458177.6	3767923	0.000828	4.25E-05	0.00E+00	8.28E-04	4.25E-05	0.00E+00	2.48E-04	7.64E-06	0.00E+00	9.40E-05	2.47E-06	0.00E+00
2518	458181.5	3767933	0.000852	4.37E-05	0.00E+00	8.52E-04	4.37E-05	0.00E+00	2.55E-04	7.86E-06	0.00E+00	9.67E-05	2.54E-06	0.00E+00
2519	458185.4	3767942	0.000877	4.50E-05	0.00E+00	8.77E-04	4.50E-05	0.00E+00	2.63E-04	8.08E-06	0.00E+00	9.95E-05	2.61E-06	0.00E+00
2520	458189.2	3767951	0.000902	4.63E-05	0.00E+00	9.02E-04	4.63E-05	0.00E+00	2.70E-04	8.32E-06	0.00E+00	1.02E-04	2.69E-06	0.00E+00
2521	458193.1	3767960	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
2522	458197	3767969	0.000955	4.90E-05	0.00E+00	9.55E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
2523	458200.8	3767978	0.000983	5.04E-05	0.00E+00	9.83E-04	5.04E-05	0.00E+00	2.94E-04	9.06E-06	0.00E+00	1.12E-04	2.92E-06	0.00E+00
2524	458204.7	3767987	0.001011	5.18E-05	0.00E+00	1.01E-03	5.18E-05	0.00E+00	3.03E-04	9.32E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
2525	458208.6	3767996	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
2526	458212.4	3768005	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.20E-04	9.84E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
2527	458216.3	3768014	0.001096	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.28E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
2528	458124.5	3767704	0.000476	2.44E-05	0.00E+00	4.76E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.40E-05	1.42E-06	0.00E+00
2529	458128.4	3767713	0.000481	2.47E-05	0.00E+00	4.81E-04	2.47E-05	0.00E+00	1.44E-04	4.44E-06	0.00E+00	5.46E-05	1.43E-06	0.00E+00
2530	458132.3	3767722	0.000487	2.50E-05	0.00E+00	4.87E-04	2.50E-05	0.00E+00	1.46E-04	4.49E-06	0.00E+00	5.53E-05	1.45E-06	0.00E+00
2531	458136.2	3767731	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
2532	458140	3767740	0.000501	2.57E-05	0.00E+00	5.01E-04	2.57E-05	0.00E+00	1.50E-04	4.61E-06	0.00E+00	5.68E-05	1.49E-06	0.00E+00
2533	458143.9	3767750	0.000508	2.60E-05	0.00E+00	5.08E-04	2.60E-05	0.00E+00	1.52E-04	4.68E-06	0.00E+00	5.76E-05	1.51E-06	0.00E+00
2534	458147.8	3767759	0.000516	2.65E-05	0.00E+00	5.16E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.85E-05	1.54E-06	0.00E+00
2535	458151.7	3767768	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
2536	458155.5	3767777	0.000534	2.74E-05	0.00E+00	5.34E-04	2.74E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.06E-05	1.59E-06	0.00E+00
2537	458159.4	3767786	0.000543	2.79E-05	0.00E+00	5.43E-04	2.79E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
2538	458163.3	3767795	0.000554	2.84E-05	0.00E+00	5.54E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.28E-05	1.65E-06	0.00E+00
2539	458167.2	3767804	0.000564	2.89E-05	0.00E+00	5.64E-04	2.89E-05	0.00E+00	1.69E-04	5.20E-06	0.00E+00	6.40E-05	1.68E-06	0.00E+00
2540	458171	3767813	0.000576	2.95E-05	0.00E+00	5.76E-04	2.95E-05	0.00E+00	1.73E-04	5.31E-06	0.00E+00	6.54E-05	1.71E-06	0.00E+00
2541	458174.9	3767822	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
2542	458178.8	3767832	0.000602	3.08E-05	0.00E+00	6.02E-04	3.08E-05	0.00E+00	1.80E-04	5.55E-06	0.00E+00	6.83E-05	1.79E-06	0.00E+00
2543	458182.7	3767841	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.67E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
2544	458186.5	3767850	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.81E-06	0.00E+00	7.15E-05	1.88E-06	0.00E+00
2545	458190.4	3767859	0.000646	3.31E-05	0.00E+00	6.46E-04	3.31E-05	0.00E+00	1.93E-04	5.95E-06	0.00E+00	7.32E-05	1.92E-06	0.00E+00
2546	458194.3	3767868	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
2547	458198.2	3767877	0.000678	3.48E-05	0.00E+00	6.78E-04	3.48E-05	0.00E+00	2.03E-04	6.25E-06	0.00E+00	7.70E-05	2.02E-06	0.00E+00
2548	458202	3767886	0.000696	3.57E-05	0.00E+00	6.96E-04	3.57E-05	0.00E+00	2.08E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
2549	458205.9	3767895	0.000714	3.66E-05	0.00E+00	7.14E-04	3.66E-05	0.00E+00	2.14E-04	6.58E-06	0.00E+00	8.10E-05	2.13E-06	0.00E+00
2550	458209.8	3767905	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.32E-05	2.18E-06	0.00E+00
2551	458213.7	3767914	0.000753	3.86E-05	0.00E+00	7.53E-04	3.86E-05	0.00E+00	2.26E-04	6.94E-06	0.00E+00	8.55E-05	2.24E-06	0.00E+00
2552	458217.5	3767923	0.000774	3.97E-05	0.00E+00	7.74E-04	3.97E-05	0.00E+00	2.32E-04	7.13E-06	0.00E+00	8.78E-05	2.30E-06	0.00E+00
2553	458221.4	3767932	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
2554	458225.3	3767941	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.27E-05	2.43E-06	0.00E+00
2555	458229.2	3767950	0.00084	4.31E-05	0.00E+00	8.40E-04	4.31E-05	0.00E+00	2.52E-04	7.74E-06	0.00E+00	9.53E-05	2.50E-06	0.00E+00
2556	458233	3767959	0.000863	4.42E-05	0.00E+00	8.63E-04	4.42E-05	0.00E+00	2.58E-04	7.95E-06	0.00E+00	9.79E-05	2.57E-06	0.00E+00
2557	458236.9	3767968	0.000886	4.54E-05	0.00E+00	8.86E-04	4.54E-05	0.00E+00	2.65E-04	8.17E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
2558	458240.8	3767977	0.00091	4.67E-05	0.00E+00	9.10E-04	4.67E-05	0.00E+00	2.73E-04	8.39E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
2559	458244.7	3767987	0.000934	4.79E-05	0.00E+00	9.34E-04	4.79E-05	0.00E+00	2.80E-04	8.61E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
2560	458248.5	3767996	0.000959	4.92E-05	0.00E+00	9.59E-04	4.92E-05	0.00E+00	2.87E-04	8.84E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
2561	458252.4	3768005	0.000985	5.05E-05	0.00E+00	9.85E-04	5.05E-05	0.00E+00	2.95E-04	9.08E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
2562	458256.3	3768014	0.00101	5.18E-05	0.00E+00	1.01E-03	5.18E-05	0.00E+00	3.02E-04	9.31E-06	0.00E+00	1.15E-04	3.00E-06	0.00E+00
2563	458133.3	3767630	0.000412	2.11E-05	0.00E+00	4.12E-04	2.11E-05	0.00E+00	1.23E-04	3.80E-06	0.00E+00	4.67E-05	1.23E-06	0.00E+00
2564	458137.2	3767639	0.000415	2.13E-05	0.00E+00	4.15E-04	2.13E-05	0.00E+00	1.24E-04	3.83E-06	0.00E+00	4.71E-05	1.24E-06	0.00E+00
2565	458141	3767648	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.25E-04	3.86E-06	0.00E+00	4.75E-05	1.25E-06	0.00E+00
2566	458144.9	3767657	0.000422	2.17E-05	0.00E+00	4.22E-04	2.17E-05	0.00E+00	1.27E-04	3.89E-06	0.00E+00	4.79E-05	1.26E-06	0.00E+00
2567	458148.8	3767666	0.000426	2.19E-05	0.00E+00	4.26E-04	2.19E-05	0.00E+00	1.28E-04	3.93E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
2568	458152.7	3767676	0.000431	2.21E-05	0.00E+00	4.31E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.89E-05	1.28E-06	0.00E+00
2569	458156.6	3767685	0.000435	2.23E-05	0.00E+00	4.35E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
2570	458160.5	3767694	0.00044	2.26E-05	0.00E+00	4.40E-04	2.26E-05	0.00E+00	1.32E-04	4.06E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
2571	458164.3	3767703	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.11E-06	0.00E+00	5.05E-05	1.33E-06	0.00E+00
2572	458168.2	3767712	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
2573	458172.1	3767721	0.000457	2.34E-05	0.00E+00	4.57E-04	2.34E-05	0.00E+00	1.37E-04	4.21E-06	0.00E+00	5.18E-05	1.36E-06	0.00E+00
2574	458176	3767730	0.000463	2.38E-05	0.00E+00	4.63E-04	2.38E-05	0.00E+00	1.39E-04	4.27E-06	0.00E+00	5.26E-05	1.38E-06	0.00E+00
2575	458179.9	3767740	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.34E-06	0.00E+00	5.34E-05	1.40E-06	0.00E+00
2576	458183.7	3767749	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.42E-05	1.42E-06	0.00E+00
2577	458187.6	3767758	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.51E-05	1.44E-06	0.00E+00
2578	458191.5	3767767	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
2579	458195.4	3767776	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.63E-06	0.00E+00	5.70E-05	1.50E-06	0.00E+00
2580	458199.3	3767785	0.000512	2.62E-05	0.00E+00	5.12E-04	2.62E-05	0.00E+00	1.53E-04	4.72E-06	0.00E+00	5.81E-05	1.52E-06	0.00E+00
2581	458203.1	3767794	0.000522	2.67E-05	0.00E+00	5.22E-04	2.67E-05	0.00E+00	1.56E-04	4.81E-06	0.00E+00	5.92E-05	1.55E-06	0.00E+00
2582	458207	3767803	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.04E-05	1.58E-06	0.00E+00
2583	458210.9	3767813	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
2584	458214.8	3767822	0.000555	2.84E-05	0.00E+00	5.55E-04	2.84E-05	0.00E+00	1.66E-04	5.11E-06	0.00E+00	6.29E-05	1.65E-06	0.00E+00
2585	458218.7	3767831	0.000567	2.91E-05	0.00E+00	5.67E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.43E-05	1.69E-06	0.00E+00
2586	458222.5	3767840	0.00058	2.97E-05	0.00E+00	5.80E-04	2.97E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.58E-05	1.73E-06	0.00E+00
2587	458226.4	3767849	0.000594	3.04E-05	0.00E+00	5.94E-04	3.04E-05	0.00E+00	1.78E-04	5.47E-06	0.00E+00	6.74E-05	1.77E-06	0.00E+00
2588	458230.3	3767858	0.000608	3.12E-05	0.00E+00	6.08E-04	3.12E-05	0.00E+00	1.82E-04	5.61E-06	0.00E+00	6.90E-05	1.81E-06	0.00E+00
2589	458234.2	3767867	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00

2590	458238.1	3767877	0.000638	3.27E-05	0.00E+00	6.38E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.24E-05	1.90E-06	0.00E+00
2591	458241.9	3767886	0.000654	3.35E-05	0.00E+00	6.54E-04	3.35E-05	0.00E+00	1.96E-04	6.03E-06	0.00E+00	7.42E-05	1.95E-06	0.00E+00
2592	458245.8	3767895	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
2593	458249.7	3767904	0.000688	3.53E-05	0.00E+00	6.88E-04	3.53E-05	0.00E+00	2.06E-04	6.35E-06	0.00E+00	7.81E-05	2.05E-06	0.00E+00
2594	458253.6	3767913	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.12E-04	6.51E-06	0.00E+00	8.01E-05	2.10E-06	0.00E+00
2595	458257.5	3767922	0.000725	3.72E-05	0.00E+00	7.25E-04	3.72E-05	0.00E+00	2.17E-04	6.68E-06	0.00E+00	8.23E-05	2.16E-06	0.00E+00
2596	458261.3	3767931	0.000744	3.82E-05	0.00E+00	7.44E-04	3.82E-05	0.00E+00	2.23E-04	6.86E-06	0.00E+00	8.44E-05	2.21E-06	0.00E+00
2597	458265.2	3767940	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
2598	458269.1	3767950	0.000784	4.02E-05	0.00E+00	7.84E-04	4.02E-05	0.00E+00	2.35E-04	7.23E-06	0.00E+00	8.89E-05	2.33E-06	0.00E+00
2599	458273	3767959	0.000805	4.12E-05	0.00E+00	8.05E-04	4.12E-05	0.00E+00	2.41E-04	7.42E-06	0.00E+00	9.13E-05	2.39E-06	0.00E+00
2600	458276.9	3767968	0.000825	4.23E-05	0.00E+00	8.25E-04	4.23E-05	0.00E+00	2.47E-04	7.61E-06	0.00E+00	9.36E-05	2.46E-06	0.00E+00
2601	458280.8	3767977	0.000846	4.34E-05	0.00E+00	8.46E-04	4.34E-05	0.00E+00	2.53E-04	7.80E-06	0.00E+00	9.60E-05	2.52E-06	0.00E+00
2602	458284.6	3767986	0.000868	4.45E-05	0.00E+00	8.68E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.84E-05	2.58E-06	0.00E+00
2603	458288.5	3767995	0.00089	4.56E-05	0.00E+00	8.90E-04	4.56E-05	0.00E+00	2.66E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
2604	458292.4	3768004	0.000912	4.67E-05	0.00E+00	9.12E-04	4.67E-05	0.00E+00	2.73E-04	8.40E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
2605	458296.3	3768013	0.000934	4.79E-05	0.00E+00	9.34E-04	4.79E-05	0.00E+00	2.80E-04	8.61E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
2606	458169.2	3767620	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.15E-04	3.52E-06	0.00E+00	4.34E-05	1.14E-06	0.00E+00
2607	458173.1	3767629	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.15E-06	0.00E+00
2608	458176.9	3767638	0.000389	1.99E-05	0.00E+00	3.89E-04	1.99E-05	0.00E+00	1.16E-04	3.58E-06	0.00E+00	4.41E-05	1.16E-06	0.00E+00
2609	458180.8	3767647	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.18E-04	3.62E-06	0.00E+00	4.45E-05	1.17E-06	0.00E+00
2610	458184.7	3767656	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
2611	458188.6	3767666	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
2612	458192.5	3767675	0.000405	2.07E-05	0.00E+00	4.05E-04	2.07E-05	0.00E+00	1.21E-04	3.73E-06	0.00E+00	4.59E-05	1.20E-06	0.00E+00
2613	458196.4	3767684	0.000409	2.10E-05	0.00E+00	4.09E-04	2.10E-05	0.00E+00	1.23E-04	3.77E-06	0.00E+00	4.64E-05	1.22E-06	0.00E+00
2614	458200.3	3767693	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.70E-05	1.23E-06	0.00E+00
2615	458204.1	3767702	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.26E-04	3.86E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
2616	458208	3767711	0.000425	2.18E-05	0.00E+00	4.25E-04	2.18E-05	0.00E+00	1.27E-04	3.92E-06	0.00E+00	4.82E-05	1.26E-06	0.00E+00
2617	458211.9	3767720	0.000431	2.21E-05	0.00E+00	4.31E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.89E-05	1.28E-06	0.00E+00
2618	458215.8	3767730	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
2619	458219.7	3767739	0.000444	2.27E-05	0.00E+00	4.44E-04	2.27E-05	0.00E+00	1.33E-04	4.09E-06	0.00E+00	5.03E-05	1.32E-06	0.00E+00
2620	458223.6	3767748	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
2621	458227.5	3767757	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.23E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
2622	458231.3	3767766	0.000467	2.39E-05	0.00E+00	4.67E-04	2.39E-05	0.00E+00	1.40E-04	4.30E-06	0.00E+00	5.29E-05	1.39E-06	0.00E+00
2623	458235.2	3767775	0.000475	2.43E-05	0.00E+00	4.75E-04	2.43E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.39E-05	1.41E-06	0.00E+00
2624	458239.1	3767784	0.000484	2.48E-05	0.00E+00	4.84E-04	2.48E-05	0.00E+00	1.45E-04	4.46E-06	0.00E+00	5.49E-05	1.44E-06	0.00E+00
2625	458243	3767794	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
2626	458246.9	3767803	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
2627	458250.8	3767812	0.000514	2.63E-05	0.00E+00	5.14E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
2628	458254.7	3767821	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
2629	458258.5	3767830	0.000536	2.75E-05	0.00E+00	5.36E-04	2.75E-05	0.00E+00	1.61E-04	4.94E-06	0.00E+00	6.08E-05	1.60E-06	0.00E+00
2630	458262.4	3767839	0.000548	2.81E-05	0.00E+00	5.48E-04	2.81E-05	0.00E+00	1.64E-04	5.05E-06	0.00E+00	6.22E-05	1.63E-06	0.00E+00
2631	458266.3	3767848	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
2632	458270.2	3767858	0.000574	2.94E-05	0.00E+00	5.74E-04	2.94E-05	0.00E+00	1.72E-04	5.29E-06	0.00E+00	6.51E-05	1.71E-06	0.00E+00
2633	458274.1	3767867	0.000588	3.01E-05	0.00E+00	5.88E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
2634	458278	3767876	0.000602	3.09E-05	0.00E+00	6.02E-04	3.09E-05	0.00E+00	1.80E-04	5.55E-06	0.00E+00	6.83E-05	1.79E-06	0.00E+00
2635	458281.9	3767885	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	7.00E-05	1.84E-06	0.00E+00
2636	458285.7	3767894	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
2637	458289.6	3767903	0.000648	3.32E-05	0.00E+00	6.48E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
2638	458293.5	3767912	0.000664	3.40E-05	0.00E+00	6.64E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.98E-06	0.00E+00
2639	458297.4	3767922	0.000681	3.49E-05	0.00E+00	6.81E-04	3.49E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.73E-05	2.03E-06	0.00E+00
2640	458301.3	3767931	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
2641	458305.2	3767940	0.000716	3.67E-05	0.00E+00	7.16E-04	3.67E-05	0.00E+00	2.14E-04	6.60E-06	0.00E+00	8.12E-05	2.13E-06	0.00E+00
2642	458309.1	3767949	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.32E-05	2.18E-06	0.00E+00
2643	458313	3767958	0.000752	3.85E-05	0.00E+00	7.52E-04	3.85E-05	0.00E+00	2.25E-04	6.93E-06	0.00E+00	8.53E-05	2.24E-06	0.00E+00
2644	458316.8	3767967	0.00077	3.95E-05	0.00E+00	7.70E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
2645	458320.7	3767976	0.000789	4.05E-05	0.00E+00	7.89E-04	4.05E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.95E-05	2.35E-06	0.00E+00
2646	458324.6	3767986	0.000808	4.14E-05	0.00E+00	8.08E-04	4.14E-05	0.00E+00	2.42E-04	7.45E-06	0.00E+00	9.17E-05	2.41E-06	0.00E+00
2647	458328.5	3767995	0.000828	4.24E-05	0.00E+00	8.28E-04	4.24E-05	0.00E+00	2.48E-04	7.63E-06	0.00E+00	9.39E-05	2.46E-06	0.00E+00
2648	458332.4	3768004	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
2649	458336.3	3768013	0.000867	4.44E-05	0.00E+00	8.67E-04	4.44E-05	0.00E+00	2.60E-04	7.99E-06	0.00E+00	9.84E-05	2.58E-06	0.00E+00
2650	458209	3767619	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.08E-04	3.31E-06	0.00E+00	4.08E-05	1.07E-06	0.00E+00
2651	458212.9	3767628	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
2652	458216.7	3767637	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.37E-06	0.00E+00	4.15E-05	1.09E-06	0.00E+00
2653	458220.6	3767646	0.000369	1.89E-05	0.00E+00	3.69E-04	1.89E-05	0.00E+00	1.11E-04	3.41E-06	0.00E+00	4.19E-05	1.10E-06	0.00E+00
2654	458224.5	3767655	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
2655	458228.4	3767665	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
2656	458232.3	3767674	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.14E-06	0.00E+00
2657	458236.2	3767683	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
2658	458240.1	3767692	0.000391	2.00E-05	0.00E+00	3.91E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
2659	458244	3767701	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
2660	458247.9	3767710	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
2661	458251.8	3767720	0.000408	2.09E-05	0.00E+00	4.08E-04	2.09E-05	0.00E+00	1.22E-04	3.76E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
2662	458255.7	3767729	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
2663	458259.5	3767738	0.00042	2.15E-05	0.00E+00	4.20E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.77E-05	1.25E-06	0.00E+00
2664	458263.4	3767747	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.94E-06	0.00E+00	4.85E-05	1.27E-06	0.00E+00
2665	458267.3	3767756	0.000434	2.23E-05	0.00E+00	4.34E-04	2.23E-05	0.00E+00	1.30E-04	4.00E-06	0.00E+00	4.93E-05	1.29E-06	0.00E+00
2666	458271.2	3767765	0.000442	2.27E-05	0.00E+00	4.42E-04	2.27E-05	0.00E+00	1.32E-04	4.08E-06	0.00E+00	5.02E-05	1.32E-06	0.00E+00
2667	458275.1	3767774	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.11E-05	1.34E-06	0.00E+00
2668	458279	3767784	0.000459	2.35E-05	0.00E+00	4.59E-04	2.35E-05	0.00E+00	1.37E-04	4.23E-06	0.00E+00	5.20E-05	1.37E-06	0.00E+00
2669	458282.9	3767793	0.000468	2.40E-05	0.00E+00	4.68E-04	2.40E-05	0.00E+00	1.40E-04	4.31E-06	0.00E+00	5.31E-05	1.39E-06	0.00E+00
2670	458286.8	3767802	0.000477	2.45E-05	0.00E+00	4.77E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
2671	458290.7	3767811	0.000487	2.50E-05	0.00E+00	4.87E-04	2.50E-05	0.00E+00	1.46E-04	4.49E-06	0.00E+00	5.53E-05	1.45E-06	0.00E+00
2672	458294.6	3767820	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
2673	458298.4	3767829	0.000508	2.61E-05	0.00E+00	5.08E-04	2.61E-05	0.00E+00	1.52E-04	4.69E-06	0.00E+00	5.77E-05	1.51E-06	0.00E+00
2674	458302.3	3767839	0.00052	2.66E-05	0.00E+00	5.20E-04	2.66E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.89E-05	1.55E-06	0.00E+00
2675	458306.2	3767848	0.000531	2.72E-05	0.00E+00	5.31E-04	2.72E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.03E-05	1.58E-06	0.00E+00
2676	458310.1	3767857	0.000543	2.79E-05	0.00E+00	5.43E-04	2.79E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
2677	458314	3767866	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.66E-04	5.12E-06	0.00E+00	6.31E-05	1.65E-06	0.00E+00
2678	458317.9	3767875	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.24E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
2679	458321.8	3767884	0.000583	2.99E-05	0.00E+00	5.83E-04	2.99E-05	0.00E+00	1.74E-04	5.37E-06	0.00E+00	6.61E-05	1.73E-06	0.00E+00
2680	458325.7	3767894	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
2681	458329.6	3767903	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.63E-06	0.00E+00	6.93E-05	1.82E-06	0.00E+00
2682	458333.5	3767912	0.000626	3.21E-05	0.00E+00	6.26E-04	3.21E-05	0.00E+00	1.87E-04	5.77E-06	0.00E+00	7.10E-05	1.86E-06	0.00E+00
2683	458337.4	3767921	0.000641	3.29E-05	0.00E+00	6.41E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
2684	458341.2	3767930	0.000656	3.37E-05	0.00E+00	6.56E-04	3.37E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
2685	458345.1	3767939	0.000672	3.45E-05	0.00E+00	6.72E-04	3.45E-05	0.00E+00	2.01E-04	6.20E-06	0.00E+00	7.63E-05	2.00E-06	0.00E+00

2686	458349	3767948	0.000688	3.53E-05	0.00E+00	6.88E-04	3.53E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.81E-05	2.05E-06	0.00E+00
2687	458352.9	3767958	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.99E-05	2.10E-06	0.00E+00
2688	458356.8	3767967	0.000721	3.70E-05	0.00E+00	7.21E-04	3.70E-05	0.00E+00	2.16E-04	6.65E-06	0.00E+00	8.18E-05	2.15E-06	0.00E+00
2689	458360.7	3767976	0.000738	3.78E-05	0.00E+00	7.38E-04	3.78E-05	0.00E+00	2.21E-04	6.80E-06	0.00E+00	8.37E-05	2.20E-06	0.00E+00
2690	458364.6	3767985	0.000755	3.87E-05	0.00E+00	7.55E-04	3.87E-05	0.00E+00	2.26E-04	6.96E-06	0.00E+00	8.57E-05	2.25E-06	0.00E+00
2691	458368.5	3767994	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.12E-06	0.00E+00	8.76E-05	2.30E-06	0.00E+00
2692	458372.4	3768003	0.00079	4.05E-05	0.00E+00	7.90E-04	4.05E-05	0.00E+00	2.37E-04	7.28E-06	0.00E+00	8.96E-05	2.35E-06	0.00E+00
2693	458376.3	3768013	0.000807	4.14E-05	0.00E+00	8.07E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
2694	458248	3767616	0.000339	1.74E-05	0.00E+00	3.39E-04	1.74E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.84E-05	1.01E-06	0.00E+00
2695	458251.8	3767625	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
2696	458255.7	3767634	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.91E-05	1.03E-06	0.00E+00
2697	458259.5	3767643	0.000348	1.79E-05	0.00E+00	3.48E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.95E-05	1.04E-06	0.00E+00
2698	458263.3	3767652	0.000352	1.81E-05	0.00E+00	3.52E-04	1.81E-05	0.00E+00	1.05E-04	3.25E-06	0.00E+00	3.99E-05	1.05E-06	0.00E+00
2699	458267.1	3767661	0.000356	1.82E-05	0.00E+00	3.56E-04	1.82E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
2700	458271	3767670	0.00036	1.85E-05	0.00E+00	3.60E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.08E-05	1.07E-06	0.00E+00
2701	458274.8	3767679	0.000364	1.87E-05	0.00E+00	3.64E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.13E-05	1.08E-06	0.00E+00
2702	458278.6	3767688	0.000369	1.89E-05	0.00E+00	3.69E-04	1.89E-05	0.00E+00	1.11E-04	3.40E-06	0.00E+00	4.19E-05	1.10E-06	0.00E+00
2703	458282.4	3767697	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
2704	458286.3	3767706	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
2705	458290.1	3767715	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
2706	458293.9	3767724	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
2707	458297.7	3767733	0.000397	2.03E-05	0.00E+00	3.97E-04	2.03E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
2708	458301.6	3767742	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.71E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
2709	458305.4	3767751	0.00041	2.10E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
2710	458309.2	3767760	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
2711	458313	3767769	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
2712	458316.9	3767778	0.000432	2.21E-05	0.00E+00	4.32E-04	2.21E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.29E-06	0.00E+00
2713	458320.7	3767787	0.00044	2.26E-05	0.00E+00	4.40E-04	2.26E-05	0.00E+00	1.32E-04	4.06E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
2714	458324.5	3767796	0.000449	2.30E-05	0.00E+00	4.49E-04	2.30E-05	0.00E+00	1.34E-04	4.14E-06	0.00E+00	5.09E-05	1.34E-06	0.00E+00
2715	458328.3	3767805	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.19E-05	1.36E-06	0.00E+00
2716	458332.2	3767814	0.000467	2.39E-05	0.00E+00	4.67E-04	2.39E-05	0.00E+00	1.40E-04	4.30E-06	0.00E+00	5.30E-05	1.39E-06	0.00E+00
2717	458336	3767823	0.000477	2.44E-05	0.00E+00	4.77E-04	2.44E-05	0.00E+00	1.43E-04	4.39E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
2718	458339.8	3767832	0.000487	2.50E-05	0.00E+00	4.87E-04	2.50E-05	0.00E+00	1.46E-04	4.49E-06	0.00E+00	5.52E-05	1.45E-06	0.00E+00
2719	458343.6	3767841	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
2720	458347.5	3767850	0.000508	2.60E-05	0.00E+00	5.08E-04	2.60E-05	0.00E+00	1.52E-04	4.68E-06	0.00E+00	5.76E-05	1.51E-06	0.00E+00
2721	458351.3	3767859	0.000519	2.66E-05	0.00E+00	5.19E-04	2.66E-05	0.00E+00	1.55E-04	4.78E-06	0.00E+00	5.89E-05	1.54E-06	0.00E+00
2722	458355.1	3767868	0.000531	2.72E-05	0.00E+00	5.31E-04	2.72E-05	0.00E+00	1.59E-04	4.89E-06	0.00E+00	6.02E-05	1.58E-06	0.00E+00
2723	458358.9	3767877	0.000542	2.78E-05	0.00E+00	5.42E-04	2.78E-05	0.00E+00	1.62E-04	5.00E-06	0.00E+00	6.15E-05	1.61E-06	0.00E+00
2724	458362.8	3767886	0.000555	2.84E-05	0.00E+00	5.55E-04	2.84E-05	0.00E+00	1.66E-04	5.11E-06	0.00E+00	6.29E-05	1.65E-06	0.00E+00
2725	458366.6	3767895	0.000567	2.91E-05	0.00E+00	5.67E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.44E-05	1.69E-06	0.00E+00
2726	458370.4	3767904	0.00058	2.98E-05	0.00E+00	5.80E-04	2.98E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.59E-05	1.73E-06	0.00E+00
2727	458374.2	3767913	0.000594	3.04E-05	0.00E+00	5.94E-04	3.04E-05	0.00E+00	1.78E-04	5.47E-06	0.00E+00	6.74E-05	1.77E-06	0.00E+00
2728	458378.1	3767922	0.000607	3.11E-05	0.00E+00	6.07E-04	3.11E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
2729	458381.9	3767931	0.000621	3.18E-05	0.00E+00	6.21E-04	3.18E-05	0.00E+00	1.86E-04	5.73E-06	0.00E+00	7.05E-05	1.85E-06	0.00E+00
2730	458385.7	3767940	0.000635	3.26E-05	0.00E+00	6.35E-04	3.26E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.20E-05	1.89E-06	0.00E+00
2731	458389.5	3767949	0.000649	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.37E-05	1.93E-06	0.00E+00
2732	458393.4	3767958	0.000664	3.40E-05	0.00E+00	6.64E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.98E-06	0.00E+00
2733	458397.2	3767967	0.000679	3.48E-05	0.00E+00	6.79E-04	3.48E-05	0.00E+00	2.03E-04	6.25E-06	0.00E+00	7.70E-05	2.02E-06	0.00E+00
2734	458401	3767976	0.000693	3.56E-05	0.00E+00	6.93E-04	3.56E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.87E-05	2.06E-06	0.00E+00
2735	458404.8	3767985	0.000709	3.63E-05	0.00E+00	7.09E-04	3.63E-05	0.00E+00	2.12E-04	6.53E-06	0.00E+00	8.04E-05	2.11E-06	0.00E+00
2736	458408.7	3767994	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.33E-06	0.00E+00	7.79E-05	2.04E-06	0.00E+00
2737	458412.5	3768003	0.000701	3.59E-05	0.00E+00	7.01E-04	3.59E-05	0.00E+00	2.10E-04	6.46E-06	0.00E+00	7.95E-05	2.09E-06	0.00E+00
2738	458416.3	3768012	0.000715	3.66E-05	0.00E+00	7.15E-04	3.66E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
2739	458287.7	3767615	0.00032	1.64E-05	0.00E+00	3.20E-04	1.64E-05	0.00E+00	9.60E-05	2.95E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
2740	458291.5	3767624	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.69E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
2741	458295.4	3767633	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.79E-05	3.01E-06	0.00E+00	3.71E-05	9.73E-07	0.00E+00
2742	458299.2	3767642	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.89E-05	3.04E-06	0.00E+00	3.75E-05	9.83E-07	0.00E+00
2743	458303	3767651	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.94E-07	0.00E+00
2744	458306.8	3767660	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.01E-06	0.00E+00
2745	458310.7	3767669	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
2746	458314.5	3767678	0.000346	1.78E-05	0.00E+00	3.46E-04	1.78E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.93E-05	1.03E-06	0.00E+00
2747	458318.3	3767687	0.000351	1.80E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
2748	458322.2	3767696	0.000356	1.82E-05	0.00E+00	3.56E-04	1.82E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
2749	458326	3767705	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.33E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
2750	458329.8	3767714	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.37E-06	0.00E+00	4.15E-05	1.09E-06	0.00E+00
2751	458333.7	3767723	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
2752	458337.5	3767732	0.000378	1.94E-05	0.00E+00	3.78E-04	1.94E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
2753	458341.3	3767741	0.000384	1.97E-05	0.00E+00	3.84E-04	1.97E-05	0.00E+00	1.15E-04	3.54E-06	0.00E+00	4.35E-05	1.14E-06	0.00E+00
2754	458345.2	3767750	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
2755	458349	3767759	0.000397	2.03E-05	0.00E+00	3.97E-04	2.03E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
2756	458352.8	3767768	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.58E-05	1.20E-06	0.00E+00
2757	458356.7	3767777	0.000411	2.11E-05	0.00E+00	4.11E-04	2.11E-05	0.00E+00	1.23E-04	3.79E-06	0.00E+00	4.67E-05	1.22E-06	0.00E+00
2758	458360.5	3767786	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.26E-04	3.86E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
2759	458364.3	3767795	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.94E-06	0.00E+00	4.85E-05	1.27E-06	0.00E+00
2760	458368.2	3767804	0.000436	2.23E-05	0.00E+00	4.36E-04	2.23E-05	0.00E+00	1.31E-04	4.02E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
2761	458372	3767813	0.000444	2.28E-05	0.00E+00	4.44E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.04E-05	1.32E-06	0.00E+00
2762	458375.8	3767822	0.000453	2.32E-05	0.00E+00	4.53E-04	2.32E-05	0.00E+00	1.36E-04	4.18E-06	0.00E+00	5.14E-05	1.35E-06	0.00E+00
2763	458379.7	3767831	0.000463	2.37E-05	0.00E+00	4.63E-04	2.37E-05	0.00E+00	1.39E-04	4.27E-06	0.00E+00	5.25E-05	1.38E-06	0.00E+00
2764	458383.5	3767840	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.41E-06	0.00E+00
2765	458387.3	3767849	0.000482	2.47E-05	0.00E+00	4.82E-04	2.47E-05	0.00E+00	1.45E-04	4.45E-06	0.00E+00	5.47E-05	1.44E-06	0.00E+00
2766	458391.2	3767858	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
2767	458395	3767867	0.000504	2.58E-05	0.00E+00	5.04E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
2768	458398.8	3767876	0.000515	2.64E-05	0.00E+00	5.15E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.84E-05	1.53E-06	0.00E+00
2769	458402.7	3767885	0.000526	2.70E-05	0.00E+00	5.26E-04	2.70E-05	0.00E+00	1.58E-04	4.85E-06	0.00E+00	5.97E-05	1.56E-06	0.00E+00
2770	458406.5	3767894	0.000537	2.76E-05	0.00E+00	5.37E-04	2.76E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.10E-05	1.60E-06	0.00E+00
2771	458410.3	3767904	0.000549	2.82E-05	0.00E+00	5.49E-04	2.82E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
2772	458414.2	3767913	0.000561	2.88E-05	0.00E+00	5.61E-04	2.88E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
2773	458418	3767922	0.000573	2.94E-05	0.00E+00	5.73E-04	2.94E-05	0.00E+00	1.72E-04	5.29E-06	0.00E+00	6.51E-05	1.71E-06	0.00E+00
2774	458421.8	3767931	0.000586	3.00E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.76E-04	5.40E-06	0.00E+00	6.65E-05	1.74E-06	0.00E+00
2775	458425.7	3767940	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.79E-05	1.78E-06	0.00E+00
2776	458429.5	3767949	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
2777	458433.3	3767958	0.000625	3.20E-05	0.00E+00	6.25E-04	3.20E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.09E-05	1.86E-06	0.00E+00
2778	458437.1	3767967	0.000638	3.27E-05	0.00E+00	6.38E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.24E-05	1.90E-06	0.00E+00
2779	458441	3767976	0.000619	3.17E-05	0.00E+00	6.19E-04	3.17E-05	0.00E+00	1.85E-04	5.70E-06	0.00E+00	7.02E-05	1.84E-06	0.00E+00
2780	458444.8	3767985	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
2781	458448.6	3767994	0.000644	3.30E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00

2782	458452.5	3768003	0.000657	3.37E-05	0.00E+00	6.57E-04	3.37E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
2783	458456.3	3768012	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.60E-05	1.99E-06	0.00E+00
2784	458327.4	3767614	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.45E-05	9.06E-07	0.00E+00
2785	458331.2	3767623	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.21E-05	2.84E-06	0.00E+00	3.49E-05	9.15E-07	0.00E+00
2786	458335.1	3767632	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.31E-05	2.87E-06	0.00E+00	3.53E-05	9.25E-07	0.00E+00
2787	458338.9	3767641	0.000314	1.61E-05	0.00E+00	3.14E-04	1.61E-05	0.00E+00	9.41E-05	2.90E-06	0.00E+00	3.57E-05	9.35E-07	0.00E+00
2788	458342.7	3767650	0.000318	1.63E-05	0.00E+00	3.18E-04	1.63E-05	0.00E+00	9.52E-05	2.93E-06	0.00E+00	3.61E-05	9.46E-07	0.00E+00
2789	458346.6	3767659	0.000322	1.65E-05	0.00E+00	3.22E-04	1.65E-05	0.00E+00	9.64E-05	2.97E-06	0.00E+00	3.65E-05	9.57E-07	0.00E+00
2790	458350.4	3767668	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.76E-05	3.00E-06	0.00E+00	3.70E-05	9.69E-07	0.00E+00
2791	458354.3	3767677	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.88E-05	3.04E-06	0.00E+00	3.74E-05	9.82E-07	0.00E+00
2792	458358.1	3767686	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.95E-07	0.00E+00
2793	458361.9	3767695	0.000339	1.74E-05	0.00E+00	3.39E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
2794	458365.8	3767704	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
2795	458369.6	3767713	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.05E-04	3.22E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
2796	458373.5	3767722	0.000355	1.82E-05	0.00E+00	3.55E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.02E-05	1.06E-06	0.00E+00
2797	458377.3	3767731	0.00036	1.85E-05	0.00E+00	3.60E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
2798	458381.1	3767740	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.15E-05	1.09E-06	0.00E+00
2799	458385	3767749	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.12E-04	3.43E-06	0.00E+00	4.23E-05	1.11E-06	0.00E+00
2800	458388.8	3767758	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.13E-04	3.49E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
2801	458392.7	3767767	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
2802	458396.5	3767776	0.000393	2.01E-05	0.00E+00	3.93E-04	2.01E-05	0.00E+00	1.18E-04	3.62E-06	0.00E+00	4.46E-05	1.17E-06	0.00E+00
2803	458400.3	3767785	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
2804	458404.2	3767794	0.000408	2.09E-05	0.00E+00	4.08E-04	2.09E-05	0.00E+00	1.22E-04	3.76E-06	0.00E+00	4.63E-05	1.21E-06	0.00E+00
2805	458408	3767803	0.000416	2.13E-05	0.00E+00	4.16E-04	2.13E-05	0.00E+00	1.24E-04	3.83E-06	0.00E+00	4.72E-05	1.24E-06	0.00E+00
2806	458411.8	3767813	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
2807	458415.7	3767822	0.000432	2.22E-05	0.00E+00	4.32E-04	2.22E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.29E-06	0.00E+00
2808	458419.5	3767831	0.000441	2.26E-05	0.00E+00	4.41E-04	2.26E-05	0.00E+00	1.32E-04	4.06E-06	0.00E+00	5.00E-05	1.31E-06	0.00E+00
2809	458423.4	3767840	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.10E-05	1.34E-06	0.00E+00
2810	458427.2	3767849	0.000459	2.35E-05	0.00E+00	4.59E-04	2.35E-05	0.00E+00	1.38E-04	4.23E-06	0.00E+00	5.21E-05	1.37E-06	0.00E+00
2811	458431	3767858	0.000469	2.40E-05	0.00E+00	4.69E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.32E-05	1.40E-06	0.00E+00
2812	458434.9	3767867	0.000479	2.45E-05	0.00E+00	4.79E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
2813	458438.7	3767876	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.46E-04	4.51E-06	0.00E+00	5.55E-05	1.45E-06	0.00E+00
2814	458442.6	3767885	0.000499	2.56E-05	0.00E+00	4.99E-04	2.56E-05	0.00E+00	1.50E-04	4.60E-06	0.00E+00	5.66E-05	1.49E-06	0.00E+00
2815	458446.4	3767894	0.00051	2.61E-05	0.00E+00	5.10E-04	2.61E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
2816	458450.2	3767903	0.000521	2.67E-05	0.00E+00	5.21E-04	2.67E-05	0.00E+00	1.56E-04	4.80E-06	0.00E+00	5.91E-05	1.55E-06	0.00E+00
2817	458454.1	3767912	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.03E-05	1.58E-06	0.00E+00
2818	458457.9	3767921	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.00E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
2819	458461.8	3767930	0.000554	2.84E-05	0.00E+00	5.54E-04	2.84E-05	0.00E+00	1.66E-04	5.11E-06	0.00E+00	6.29E-05	1.65E-06	0.00E+00
2820	458465.6	3767939	0.000566	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.69E-04	5.22E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
2821	458469.4	3767948	0.000578	2.96E-05	0.00E+00	5.78E-04	2.96E-05	0.00E+00	1.73E-04	5.32E-06	0.00E+00	6.55E-05	1.72E-06	0.00E+00
2822	458473.3	3767957	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
2823	458477.1	3767966	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
2824	458480.9	3767975	0.00058	2.97E-05	0.00E+00	5.80E-04	2.97E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.58E-05	1.73E-06	0.00E+00
2825	458484.8	3767984	0.000591	3.03E-05	0.00E+00	5.91E-04	3.03E-05	0.00E+00	1.77E-04	5.45E-06	0.00E+00	6.71E-05	1.76E-06	0.00E+00
2826	458488.6	3767993	0.000604	3.10E-05	0.00E+00	6.04E-04	3.10E-05	0.00E+00	1.81E-04	5.57E-06	0.00E+00	6.85E-05	1.80E-06	0.00E+00
2827	458492.5	3768002	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	7.00E-05	1.83E-06	0.00E+00
2828	458496.3	3768011	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.80E-06	0.00E+00	7.14E-05	1.87E-06	0.00E+00
2829	457295	3768023	0.011806	6.05E-04	0.00E+00	1.18E-02	6.05E-04	0.00E+00	3.54E-03	1.09E-04	0.00E+00	1.34E-03	3.51E-05	0.00E+00
2830	457292.2	3768040	0.012488	6.40E-04	0.00E+00	1.25E-02	6.40E-04	0.00E+00	3.74E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
2831	457292.3	3768050	0.013006	6.67E-04	0.00E+00	1.30E-02	6.67E-04	0.00E+00	3.90E-03	1.20E-04	0.00E+00	1.48E-03	3.87E-05	0.00E+00
2832	457292.4	3768059	0.01339	6.86E-04	0.00E+00	1.34E-02	6.86E-04	0.00E+00	4.01E-03	1.23E-04	0.00E+00	1.52E-03	3.98E-05	0.00E+00
2833	457292.4	3768069	0.013627	6.99E-04	0.00E+00	1.36E-02	6.99E-04	0.00E+00	4.08E-03	1.26E-04	0.00E+00	1.55E-03	4.06E-05	0.00E+00
2834	457292.5	3768079	0.013703	7.02E-04	0.00E+00	1.37E-02	7.02E-04	0.00E+00	4.10E-03	1.26E-04	0.00E+00	1.55E-03	4.08E-05	0.00E+00
2835	457292.6	3768088	0.013628	6.99E-04	0.00E+00	1.36E-02	6.99E-04	0.00E+00	4.08E-03	1.26E-04	0.00E+00	1.55E-03	4.06E-05	0.00E+00
2836	457292.7	3768098	0.013428	6.88E-04	0.00E+00	1.34E-02	6.88E-04	0.00E+00	4.02E-03	1.24E-04	0.00E+00	1.52E-03	4.00E-05	0.00E+00
2837	457292.7	3768107	0.013122	6.73E-04	0.00E+00	1.31E-02	6.73E-04	0.00E+00	3.93E-03	1.21E-04	0.00E+00	1.49E-03	3.90E-05	0.00E+00
2838	457292.8	3768117	0.012769	6.55E-04	0.00E+00	1.28E-02	6.55E-04	0.00E+00	3.82E-03	1.18E-04	0.00E+00	1.45E-03	3.80E-05	0.00E+00
2839	457292.9	3768127	0.012323	6.32E-04	0.00E+00	1.23E-02	6.32E-04	0.00E+00	3.69E-03	1.14E-04	0.00E+00	1.40E-03	3.67E-05	0.00E+00
2840	457292.9	3768136	0.011786	6.04E-04	0.00E+00	1.18E-02	6.04E-04	0.00E+00	3.53E-03	1.09E-04	0.00E+00	1.34E-03	3.51E-05	0.00E+00
2841	457293	3768146	0.011129	5.71E-04	0.00E+00	1.11E-02	5.71E-04	0.00E+00	3.33E-03	1.03E-04	0.00E+00	1.26E-03	3.31E-05	0.00E+00
2842	457293.1	3768155	0.010396	5.33E-04	0.00E+00	1.04E-02	5.33E-04	0.00E+00	3.11E-03	9.58E-05	0.00E+00	1.18E-03	3.09E-05	0.00E+00
2843	457293.2	3768165	0.009596	4.92E-04	0.00E+00	9.60E-03	4.92E-04	0.00E+00	2.87E-03	8.85E-05	0.00E+00	1.09E-03	2.86E-05	0.00E+00
2844	457293.2	3768175	0.008759	4.49E-04	0.00E+00	8.76E-03	4.49E-04	0.00E+00	2.62E-03	8.07E-05	0.00E+00	9.94E-04	2.61E-05	0.00E+00
2845	457293.3	3768184	0.007878	4.04E-04	0.00E+00	7.88E-03	4.04E-04	0.00E+00	2.36E-03	7.26E-05	0.00E+00	8.94E-04	2.34E-05	0.00E+00
2846	457293.4	3768194	0.006982	3.58E-04	0.00E+00	6.98E-03	3.58E-04	0.00E+00	2.09E-03	6.44E-05	0.00E+00	7.92E-04	2.08E-05	0.00E+00
2847	457293.5	3768204	0.006112	3.13E-04	0.00E+00	6.11E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.93E-04	1.82E-05	0.00E+00
2848	457293.5	3768213	0.00533	2.73E-04	0.00E+00	5.33E-03	2.73E-04	0.00E+00	1.60E-03	4.91E-05	0.00E+00	6.05E-04	1.59E-05	0.00E+00
2849	457293.6	3768223	0.004665	2.39E-04	0.00E+00	4.67E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
2850	457293.7	3768232	0.004118	2.11E-04	0.00E+00	4.12E-03	2.11E-04	0.00E+00	1.23E-03	3.80E-05	0.00E+00	4.67E-04	1.23E-05	0.00E+00
2851	457285	3768023	0.01073	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.89E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
2852	457290.8	3768009	0.010568	5.42E-04	0.00E+00	1.06E-02	5.42E-04	0.00E+00	3.17E-03	9.74E-05	0.00E+00	1.20E-03	3.14E-05	0.00E+00
2853	457282.2	3768040	0.011105	5.69E-04	0.00E+00	1.11E-02	5.69E-04	0.00E+00	3.33E-03	1.02E-04	0.00E+00	1.26E-03	3.30E-05	0.00E+00
2854	457282.3	3768050	0.011414	5.85E-04	0.00E+00	1.14E-02	5.85E-04	0.00E+00	3.42E-03	1.05E-04	0.00E+00	1.29E-03	3.40E-05	0.00E+00
2855	457282.4	3768059	0.011615	5.95E-04	0.00E+00	1.16E-02	5.95E-04	0.00E+00	3.48E-03	1.07E-04	0.00E+00	1.32E-03	3.46E-05	0.00E+00
2856	457282.4	3768069	0.01171	6.00E-04	0.00E+00	1.17E-02	6.00E-04	0.00E+00	3.51E-03	1.08E-04	0.00E+00	1.33E-03	3.48E-05	0.00E+00
2857	457282.5	3768079	0.011692	5.99E-04	0.00E+00	1.17E-02	5.99E-04	0.00E+00	3.50E-03	1.08E-04	0.00E+00	1.33E-03	3.48E-05	0.00E+00
2858	457282.6	3768088	0.011567	5.93E-04	0.00E+00	1.16E-02	5.93E-04	0.00E+00	3.46E-03	1.07E-04	0.00E+00	1.31E-03	3.44E-05	0.00E+00
2859	457282.7	3768098	0.011348	5.82E-04	0.00E+00	1.13E-02	5.82E-04	0.00E+00	3.40E-03	1.05E-04	0.00E+00	1.29E-03	3.38E-05	0.00E+00
2860	457282.7	3768107	0.011047	5.66E-04	0.00E+00	1.10E-02	5.66E-04	0.00E+00	3.31E-03	1.02E-04	0.00E+00	1.25E-03	3.29E-05	0.00E+00
2861	457282.8	3768117	0.010703	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.87E-05	0.00E+00	1.21E-03	3.18E-05	0.00E+00
2862	457282.9	3768127	0.010285	5.27E-04	0.00E+00	1.03E-02	5.27E-04	0.00E+00	3.08E-03	9.48E-05	0.00E+00	1.17E-03	3.06E-05	0.00E+00
2863	457282.9	3768136	0.0098	5.02E-04	0.00E+00	9.80E-03	5.02E-04	0.00E+00	2.94E-03	9.03E-05	0.00E+00	1.11E-03	2.92E-05	0.00E+00
2864	457283	3768146	0.009231	4.73E-04	0.00E+00	9.23E-03	4.73E-04	0.00E+00	2.76E-03	8.51E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
2865	457283.1	3768156	0.00861	4.41E-04	0.00E+00	8.61E-03	4.41E-04	0.00E+00	2.58E-03	7.94E-05	0.00E+00	9.77E-04	2.56E-05	0.00E+00
2866	457283.2	3768165	0.007948	4.07E-04	0.00E+00	7.95E-03	4.07E-04	0.00E+00	2.38E-03	7.33E-05	0.00E+00	9.02E-04	2.37E-05	0.00E+00
2867	457283.2	3768175	0.007265	3.72E-04	0.00E+00	7.27E-03	3.72E-04	0.00E+00	2.18E-03	6.70E-05	0.00E+00	8.24E-04	2.16E-05	0.00E+00
2868	457283.3	3768184	0.00657	3.37E-04	0.00E+00	6.57E-03	3.37E-04	0.00E+00	1.97E-03	6.06E-05	0.00E+00	7.45E-04	1.95E-05	0.00E+00
2869	457283.4	3768194	0.005886	3.02E-04	0.00E+00	5.89E-03	3.02E-04	0.00E+00	1.76E-03	5.43E-05	0.00E+00	6.68E-04	1.75E-05	0.00E+00
2870	457283.5	3768204	0.005241	2.69E-04	0.00E+00	5.24E-03	2.69E-04	0.00E+00	1.57E-03	4.83E-05	0.00E+00	5.95E-04	1.56E-05	0.00E+00
2871	457283.5	3768213	0.00466	2.39E-04	0.00E+00	4.66E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
2872	457283.6	3768223	0.004153	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.83E-05	0.00E+00	4.71E-04	1.24E-05	0.00E+00
2873	457283.7	3768232	0.00372	1.91E-04	0.00E+00	3.72E-03	1.91E-04	0.00E+00	1.11E-03	3.43E-05	0.00E+00	4.22E-04	1.11E-05	0.00E+00
2874	457275.8	3768022	0.009754	5.00E-04	0.00E+00	9.75E-03	5.00E-04	0.00E+00	2.92E-03	8.99E-05	0.00E+00	1.11E-03	2.90E-05	0.00E+00
2875	457279.4	3768013	0.009754	5.00E-04	0.00E+00	9.75E-03	5.00E-04	0.00E+00	2.92E-03	8.99E-05	0.00E+00	1.11E-03	2.90E-05	0.00E+00
2876	457283	3768004	0.009692	4.97E-04	0.00E+00	9.69E-03	4.97E-04	0.00E+00	2.90E-03	8.93E-05	0.00E+00	1.10E-03	2.88E-05	0.00E+00
2877	457272.1	3768031	0.009675	4.96E-04	0.00E+00	9.67E-03	4.96E-04	0.00E+00	2.90E-03	8.92E-05	0.00E+00	1.10E-03	2.88E-05	0.00E+00

2878	457272.2	3768040	0.009915	5.08E-04	0.00E+00	9.91E-03	5.08E-04	0.00E+00	2.97E-03	9.14E-05	0.00E+00	1.12E-03	2.95E-05	0.00E+00
2879	457272.3	3768050	0.010091	5.17E-04	0.00E+00	1.01E-02	5.17E-04	0.00E+00	3.02E-03	9.30E-05	0.00E+00	1.14E-03	3.00E-05	0.00E+00
2880	457272.4	3768059	0.010181	5.22E-04	0.00E+00	1.02E-02	5.22E-04	0.00E+00	3.05E-03	9.38E-05	0.00E+00	1.16E-03	3.03E-05	0.00E+00
2881	457272.4	3768069	0.010191	5.22E-04	0.00E+00	1.02E-02	5.22E-04	0.00E+00	3.05E-03	9.39E-05	0.00E+00	1.16E-03	3.03E-05	0.00E+00
2882	457272.5	3768079	0.010118	5.19E-04	0.00E+00	1.01E-02	5.19E-04	0.00E+00	3.03E-03	9.33E-05	0.00E+00	1.15E-03	3.01E-05	0.00E+00
2883	457272.6	3768088	0.009965	5.11E-04	0.00E+00	9.96E-03	5.11E-04	0.00E+00	2.98E-03	9.19E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
2884	457272.7	3768098	0.00974	4.99E-04	0.00E+00	9.74E-03	4.99E-04	0.00E+00	2.92E-03	8.98E-05	0.00E+00	1.11E-03	2.90E-05	0.00E+00
2885	457272.7	3768108	0.009451	4.85E-04	0.00E+00	9.45E-03	4.85E-04	0.00E+00	2.83E-03	8.71E-05	0.00E+00	1.07E-03	2.81E-05	0.00E+00
2886	457272.8	3768117	0.009127	4.68E-04	0.00E+00	9.13E-03	4.68E-04	0.00E+00	2.73E-03	8.41E-05	0.00E+00	1.04E-03	2.72E-05	0.00E+00
2887	457272.9	3768127	0.008745	4.48E-04	0.00E+00	8.75E-03	4.48E-04	0.00E+00	2.62E-03	8.06E-05	0.00E+00	9.92E-04	2.60E-05	0.00E+00
2888	457272.9	3768136	0.008314	4.26E-04	0.00E+00	8.31E-03	4.26E-04	0.00E+00	2.49E-03	7.66E-05	0.00E+00	9.43E-04	2.47E-05	0.00E+00
2889	457273	3768146	0.007823	4.01E-04	0.00E+00	7.82E-03	4.01E-04	0.00E+00	2.34E-03	7.21E-05	0.00E+00	8.88E-04	2.33E-05	0.00E+00
2890	457273.1	3768156	0.007297	3.74E-04	0.00E+00	7.30E-03	3.74E-04	0.00E+00	2.19E-03	6.73E-05	0.00E+00	8.28E-04	2.17E-05	0.00E+00
2891	457273.2	3768165	0.006748	3.46E-04	0.00E+00	6.75E-03	3.46E-04	0.00E+00	2.02E-03	6.22E-05	0.00E+00	7.66E-04	2.01E-05	0.00E+00
2892	457273.2	3768175	0.00619	3.17E-04	0.00E+00	6.19E-03	3.17E-04	0.00E+00	1.85E-03	5.71E-05	0.00E+00	7.02E-04	1.84E-05	0.00E+00
2893	457273.3	3768184	0.005633	2.89E-04	0.00E+00	5.63E-03	2.89E-04	0.00E+00	1.69E-03	5.19E-05	0.00E+00	6.39E-04	1.68E-05	0.00E+00
2894	457273.4	3768194	0.005096	2.61E-04	0.00E+00	5.10E-03	2.61E-04	0.00E+00	1.53E-03	4.70E-05	0.00E+00	5.78E-04	1.52E-05	0.00E+00
2895	457273.5	3768204	0.004597	2.36E-04	0.00E+00	4.60E-03	2.36E-04	0.00E+00	1.38E-03	4.24E-05	0.00E+00	5.22E-04	1.37E-05	0.00E+00
2896	457273.5	3768213	0.004144	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.82E-05	0.00E+00	4.70E-04	1.23E-05	0.00E+00
2897	457273.6	3768223	0.003743	1.92E-04	0.00E+00	3.74E-03	1.92E-04	0.00E+00	1.12E-03	3.45E-05	0.00E+00	4.25E-04	1.11E-05	0.00E+00
2898	457273.7	3768233	0.003391	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
2899	457265.6	3768022	0.008872	4.55E-04	0.00E+00	8.87E-03	4.55E-04	0.00E+00	2.66E-03	8.18E-05	0.00E+00	1.01E-03	2.64E-05	0.00E+00
2900	457269.1	3768014	0.00894	4.58E-04	0.00E+00	8.94E-03	4.58E-04	0.00E+00	2.68E-03	8.24E-05	0.00E+00	1.01E-03	2.66E-05	0.00E+00
2901	457272.6	3768005	0.008957	4.59E-04	0.00E+00	8.96E-03	4.59E-04	0.00E+00	2.68E-03	8.26E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
2902	457276	3767997	0.008919	4.57E-04	0.00E+00	8.92E-03	4.57E-04	0.00E+00	2.67E-03	8.22E-05	0.00E+00	1.01E-03	2.65E-05	0.00E+00
2903	457288	3767984	0.009197	4.72E-04	0.00E+00	9.20E-03	4.72E-04	0.00E+00	2.75E-03	8.48E-05	0.00E+00	1.04E-03	2.74E-05	0.00E+00
2904	457262.1	3768031	0.008738	4.48E-04	0.00E+00	8.74E-03	4.48E-04	0.00E+00	2.62E-03	8.06E-05	0.00E+00	9.91E-04	2.60E-05	0.00E+00
2905	457262.2	3768040	0.00888	4.55E-04	0.00E+00	8.88E-03	4.55E-04	0.00E+00	2.66E-03	8.19E-05	0.00E+00	1.01E-03	2.64E-05	0.00E+00
2906	457262.3	3768050	0.008968	4.60E-04	0.00E+00	8.97E-03	4.60E-04	0.00E+00	2.69E-03	8.27E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
2907	457262.4	3768060	0.008992	4.61E-04	0.00E+00	8.99E-03	4.61E-04	0.00E+00	2.69E-03	8.29E-05	0.00E+00	1.02E-03	2.68E-05	0.00E+00
2908	457262.4	3768069	0.008955	4.59E-04	0.00E+00	8.96E-03	4.59E-04	0.00E+00	2.68E-03	8.25E-05	0.00E+00	1.02E-03	2.66E-05	0.00E+00
2909	457262.5	3768079	0.008853	4.54E-04	0.00E+00	8.85E-03	4.54E-04	0.00E+00	2.65E-03	8.16E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
2910	457262.6	3768088	0.008687	4.45E-04	0.00E+00	8.69E-03	4.45E-04	0.00E+00	2.60E-03	8.01E-05	0.00E+00	9.86E-04	2.58E-05	0.00E+00
2911	457262.7	3768098	0.008465	4.34E-04	0.00E+00	8.46E-03	4.34E-04	0.00E+00	2.54E-03	7.80E-05	0.00E+00	9.60E-04	2.52E-05	0.00E+00
2912	457262.7	3768108	0.008193	4.20E-04	0.00E+00	8.19E-03	4.20E-04	0.00E+00	2.45E-03	7.55E-05	0.00E+00	9.29E-04	2.44E-05	0.00E+00
2913	457262.8	3768117	0.007889	4.04E-04	0.00E+00	7.89E-03	4.04E-04	0.00E+00	2.36E-03	7.27E-05	0.00E+00	8.95E-04	2.35E-05	0.00E+00
2914	457262.9	3768127	0.007542	3.87E-04	0.00E+00	7.54E-03	3.87E-04	0.00E+00	2.26E-03	6.95E-05	0.00E+00	8.56E-04	2.24E-05	0.00E+00
2915	457262.9	3768136	0.007159	3.67E-04	0.00E+00	7.16E-03	3.67E-04	0.00E+00	2.14E-03	6.60E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
2916	457263	3768146	0.006739	3.45E-04	0.00E+00	6.74E-03	3.45E-04	0.00E+00	2.02E-03	6.21E-05	0.00E+00	7.65E-04	2.01E-05	0.00E+00
2917	457263.1	3768156	0.006297	3.23E-04	0.00E+00	6.30E-03	3.23E-04	0.00E+00	1.89E-03	5.80E-05	0.00E+00	7.14E-04	1.87E-05	0.00E+00
2918	457263.2	3768165	0.005843	3.00E-04	0.00E+00	5.84E-03	3.00E-04	0.00E+00	1.75E-03	5.39E-05	0.00E+00	6.63E-04	1.74E-05	0.00E+00
2919	457263.2	3768175	0.005383	2.76E-04	0.00E+00	5.38E-03	2.76E-04	0.00E+00	1.61E-03	4.96E-05	0.00E+00	6.11E-04	1.60E-05	0.00E+00
2920	457263.3	3768185	0.004931	2.53E-04	0.00E+00	4.93E-03	2.53E-04	0.00E+00	1.48E-03	4.55E-05	0.00E+00	5.59E-04	1.47E-05	0.00E+00
2921	457263.4	3768194	0.004498	2.31E-04	0.00E+00	4.50E-03	2.31E-04	0.00E+00	1.35E-03	4.15E-05	0.00E+00	5.10E-04	1.34E-05	0.00E+00
2922	457263.5	3768204	0.004098	2.10E-04	0.00E+00	4.10E-03	2.10E-04	0.00E+00	1.23E-03	3.78E-05	0.00E+00	4.65E-04	1.22E-05	0.00E+00
2923	457263.5	3768213	0.003732	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
2924	457263.6	3768223	0.003404	1.75E-04	0.00E+00	3.40E-03	1.75E-04	0.00E+00	1.02E-03	3.14E-05	0.00E+00	3.86E-04	1.01E-05	0.00E+00
2925	457263.7	3768233	0.003112	1.60E-04	0.00E+00	3.11E-03	1.60E-04	0.00E+00	9.32E-04	2.87E-05	0.00E+00	3.53E-04	9.26E-06	0.00E+00
2926	457255.5	3768022	0.008075	4.14E-04	0.00E+00	8.08E-03	4.14E-04	0.00E+00	2.42E-03	7.44E-05	0.00E+00	9.16E-04	2.40E-05	0.00E+00
2927	457262.3	3768006	0.008254	4.23E-04	0.00E+00	8.25E-03	4.23E-04	0.00E+00	2.47E-03	7.61E-05	0.00E+00	9.36E-04	2.46E-05	0.00E+00
2928	457269	3767989	0.008254	4.23E-04	0.00E+00	8.25E-03	4.23E-04	0.00E+00	2.47E-03	7.61E-05	0.00E+00	9.36E-04	2.46E-05	0.00E+00
2929	457280.7	3767977	0.00852	4.37E-04	0.00E+00	8.52E-03	4.37E-04	0.00E+00	2.55E-03	7.85E-05	0.00E+00	9.67E-04	2.54E-05	0.00E+00
2930	457252.2	3768040	0.007985	4.09E-04	0.00E+00	7.98E-03	4.09E-04	0.00E+00	2.39E-03	7.36E-05	0.00E+00	9.06E-04	2.38E-05	0.00E+00
2931	457252.3	3768050	0.008014	4.11E-04	0.00E+00	8.01E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.09E-04	2.38E-05	0.00E+00
2932	457252.4	3768060	0.007999	4.10E-04	0.00E+00	8.00E-03	4.10E-04	0.00E+00	2.40E-03	7.37E-05	0.00E+00	9.07E-04	2.38E-05	0.00E+00
2933	457252.4	3768069	0.007934	4.07E-04	0.00E+00	7.93E-03	4.07E-04	0.00E+00	2.38E-03	7.31E-05	0.00E+00	9.00E-04	2.36E-05	0.00E+00
2934	457252.5	3768079	0.007818	4.01E-04	0.00E+00	7.82E-03	4.01E-04	0.00E+00	2.34E-03	7.21E-05	0.00E+00	8.87E-04	2.33E-05	0.00E+00
2935	457252.6	3768088	0.007648	3.92E-04	0.00E+00	7.65E-03	3.92E-04	0.00E+00	2.29E-03	7.05E-05	0.00E+00	8.68E-04	2.28E-05	0.00E+00
2936	457252.7	3768098	0.007434	3.81E-04	0.00E+00	7.43E-03	3.81E-04	0.00E+00	2.23E-03	6.85E-05	0.00E+00	8.43E-04	2.21E-05	0.00E+00
2937	457252.7	3768108	0.007181	3.68E-04	0.00E+00	7.18E-03	3.68E-04	0.00E+00	2.15E-03	6.62E-05	0.00E+00	8.15E-04	2.14E-05	0.00E+00
2938	457252.8	3768117	0.006899	3.54E-04	0.00E+00	6.90E-03	3.54E-04	0.00E+00	2.07E-03	6.36E-05	0.00E+00	7.83E-04	2.05E-05	0.00E+00
2939	457252.9	3768127	0.006585	3.38E-04	0.00E+00	6.59E-03	3.38E-04	0.00E+00	1.97E-03	6.07E-05	0.00E+00	7.47E-04	1.96E-05	0.00E+00
2940	457252.9	3768137	0.006246	3.20E-04	0.00E+00	6.25E-03	3.20E-04	0.00E+00	1.87E-03	5.76E-05	0.00E+00	7.09E-04	1.86E-05	0.00E+00
2941	457253	3768146	0.005888	3.02E-04	0.00E+00	5.89E-03	3.02E-04	0.00E+00	1.76E-03	5.43E-05	0.00E+00	6.68E-04	1.75E-05	0.00E+00
2942	457253.1	3768156	0.005516	2.83E-04	0.00E+00	5.52E-03	2.83E-04	0.00E+00	1.65E-03	5.08E-05	0.00E+00	6.26E-04	1.64E-05	0.00E+00
2943	457253.2	3768165	0.005137	2.63E-04	0.00E+00	5.14E-03	2.63E-04	0.00E+00	1.54E-03	4.74E-05	0.00E+00	5.83E-04	1.53E-05	0.00E+00
2944	457253.2	3768175	0.004755	2.44E-04	0.00E+00	4.75E-03	2.44E-04	0.00E+00	1.42E-03	4.38E-05	0.00E+00	5.39E-04	1.41E-05	0.00E+00
2945	457253.3	3768185	0.004382	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
2946	457253.4	3768194	0.004027	2.06E-04	0.00E+00	4.03E-03	2.06E-04	0.00E+00	1.21E-03	3.71E-05	0.00E+00	4.57E-04	1.20E-05	0.00E+00
2947	457253.5	3768204	0.003697	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.19E-04	1.10E-05	0.00E+00
2948	457253.5	3768213	0.003393	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.85E-04	1.01E-05	0.00E+00
2949	457253.6	3768223	0.003118	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.34E-04	2.87E-05	0.00E+00	3.54E-04	9.28E-06	0.00E+00
2950	457253.7	3768233	0.002871	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.54E-06	0.00E+00
2951	457245.4	3768023	0.007363	3.77E-04	0.00E+00	7.36E-03	3.77E-04	0.00E+00	2.21E-03	6.79E-05	0.00E+00	8.35E-04	2.19E-05	0.00E+00
2952	457252.1	3768006	0.007599	3.90E-04	0.00E+00	7.60E-03	3.90E-04	0.00E+00	2.28E-03	7.01E-05	0.00E+00	8.62E-04	2.26E-05	0.00E+00
2953	457258.7	3767990	0.007684	3.94E-04	0.00E+00	7.68E-03	3.94E-04	0.00E+00	2.30E-03	7.08E-05	0.00E+00	8.72E-04	2.29E-05	0.00E+00
2954	457273.4	3767971	0.007926	4.06E-04	0.00E+00	7.93E-03	4.06E-04	0.00E+00	2.37E-03	7.31E-05	0.00E+00	8.99E-04	2.36E-05	0.00E+00
2955	457289.6	3767964	0.008433	4.32E-04	0.00E+00	8.43E-03	4.32E-04	0.00E+00	2.53E-03	7.77E-05	0.00E+00	9.57E-04	2.51E-05	0.00E+00
2956	457242.2	3768040	0.007211	3.70E-04	0.00E+00	7.21E-03	3.70E-04	0.00E+00	2.16E-03	6.65E-05	0.00E+00	8.18E-04	2.15E-05	0.00E+00
2957	457242.3	3768050	0.007202	3.69E-04	0.00E+00	7.20E-03	3.69E-04	0.00E+00	2.16E-03	6.64E-05	0.00E+00	8.17E-04	2.14E-05	0.00E+00
2958	457242.4	3768060	0.007161	3.67E-04	0.00E+00	7.16E-03	3.67E-04	0.00E+00	2.14E-03	6.60E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
2959	457242.4	3768069	0.007081	3.63E-04	0.00E+00	7.08E-03	3.63E-04	0.00E+00	2.12E-03	6.53E-05	0.00E+00	8.03E-04	2.11E-05	0.00E+00
2960	457242.5	3768079	0.006958	3.57E-04	0.00E+00	6.96E-03	3.57E-04	0.00E+00	2.08E-03	6.41E-05	0.00E+00	7.89E-04	2.07E-05	0.00E+00
2961	457242.6	3768089	0.006791	3.48E-04	0.00E+00	6.79E-03	3.48E-04	0.00E+00	2.03E-03	6.26E-05	0.00E+00	7.70E-04	2.02E-05	0.00E+00
2962	457242.7	3768098	0.006588	3.38E-04	0.00E+00	6.59E-03	3.38E-04	0.00E+00	1.97E-03	6.07E-05	0.00E+00	7.47E-04	1.96E-05	0.00E+00
2963	457242.7	3768108	0.006354	3.26E-04	0.00E+00	6.35E-03	3.26E-04	0.00E+00	1.90E-03	5.86E-05	0.00E+00	7.21E-04	1.89E-05	0.00E+00
2964	457242.8	3768117	0.006096	3.13E-04	0.00E+00	6.10E-03	3.13E-04	0.00E+00	1.83E-03	5.62E-05	0.00E+00	6.92E-04	1.81E-05	0.00E+00
2965	457242.9	3768127	0.005814	2.98E-04	0.00E+00	5.81E-03	2.98E-04	0.00E+00	1.74E-03	5.36E-05	0.00E+00	6.60E-04	1.73E-05	0.00E+00
2966	457242.9	3768137	0.005514	2.83E-04	0.00E+00	5.51E-03	2.83E-04	0.00E+00	1.65E-03	5.08E-05	0.00E+00	6.26E-04	1.64E-05	0.00E+00
2967	457243	3768146	0.005207	2.67E-04	0.00E+00	5.21E-03	2.67E-04	0.00E+00	1.56E-03	4.80E-05	0.00E+00	5.91E-04	1.55E-05	0.00E+00
2968	457243.1	3768156	0.004891	2.51E-04	0.00E+00	4.89E-03	2.51E-04	0.00E+00	1.46E-03	4.51E-05	0.00E+00	5.55E-04	1.46E-05	0.00E+00
2969	457243.2	3768165	0.004572	2.34E-04	0.00E+00	4.57E-03	2.34E-04	0.00E+00	1.37E-03	4.21E-05	0.00E+00	5.19E-04	1.36E-05	0.00E+00
2970	457243.2	3768175	0.004251	2.18E-04	0.00E+00	4.25E-03	2.18E-04	0.00E+00	1.27E-03	3.92E-05	0.00E+00	4.82E-04	1.26E-05	0.00E+00
2971	457243.3	3768185	0.003939	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.63E-05	0.00E+00	4.47E-04	1.17E-05	0.00E+00
2972	457243.4	3768194	0.003642	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.36E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
2973	457243.5	3768204	0.003364	1.72E-04	0.00E+00	3.36E-03	1.72E-04	0.00E+00	1.01E-03	3.10E-05	0.00E+00	3.82E-04	1.00E-05	0.00E+00

2974	457243.5	3768214	0.003108	1.59E-04	0.00E+00	3.11E-03	1.59E-04	0.00E+00	9.31E-04	2.86E-05	0.00E+00	3.53E-04	9.25E-06	0.00E+00
2975	457243.6	3768223	0.002874	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.61E-04	2.65E-05	0.00E+00	3.26E-04	8.55E-06	0.00E+00
2976	457243.7	3768233	0.002663	1.37E-04	0.00E+00	2.66E-03	1.37E-04	0.00E+00	7.98E-04	2.45E-05	0.00E+00	3.02E-04	7.92E-06	0.00E+00
2977	457235.4	3768023	0.00673	3.45E-04	0.00E+00	6.73E-03	3.45E-04	0.00E+00	2.02E-03	6.20E-05	0.00E+00	7.64E-04	2.00E-05	0.00E+00
2978	457241.9	3768007	0.006998	3.59E-04	0.00E+00	7.00E-03	3.59E-04	0.00E+00	2.10E-03	6.45E-05	0.00E+00	7.94E-04	2.08E-05	0.00E+00
2979	457248.4	3767991	0.007139	3.66E-04	0.00E+00	7.14E-03	3.66E-04	0.00E+00	2.14E-03	6.58E-05	0.00E+00	8.10E-04	2.12E-05	0.00E+00
2980	457254.9	3767975	0.007158	3.67E-04	0.00E+00	7.16E-03	3.67E-04	0.00E+00	2.14E-03	6.60E-05	0.00E+00	8.12E-04	2.13E-05	0.00E+00
2981	457266.2	3767964	0.007399	3.79E-04	0.00E+00	7.40E-03	3.79E-04	0.00E+00	2.22E-03	6.82E-05	0.00E+00	8.39E-04	2.20E-05	0.00E+00
2982	457282.1	3767957	0.007872	4.04E-04	0.00E+00	7.87E-03	4.04E-04	0.00E+00	2.36E-03	7.26E-05	0.00E+00	8.93E-04	2.34E-05	0.00E+00
2983	457232.2	3768041	0.006545	3.36E-04	0.00E+00	6.55E-03	3.36E-04	0.00E+00	1.96E-03	6.03E-05	0.00E+00	7.43E-04	1.95E-05	0.00E+00
2984	457232.3	3768050	0.00651	3.34E-04	0.00E+00	6.51E-03	3.34E-04	0.00E+00	1.95E-03	6.00E-05	0.00E+00	7.39E-04	1.94E-05	0.00E+00
2985	457232.4	3768060	0.006449	3.31E-04	0.00E+00	6.45E-03	3.31E-04	0.00E+00	1.93E-03	5.94E-05	0.00E+00	7.32E-04	1.92E-05	0.00E+00
2986	457232.4	3768069	0.006356	3.26E-04	0.00E+00	6.36E-03	3.26E-04	0.00E+00	1.90E-03	5.86E-05	0.00E+00	7.21E-04	1.89E-05	0.00E+00
2987	457232.5	3768079	0.006229	3.19E-04	0.00E+00	6.23E-03	3.19E-04	0.00E+00	1.87E-03	5.74E-05	0.00E+00	7.07E-04	1.85E-05	0.00E+00
2988	457232.6	3768089	0.00607	3.11E-04	0.00E+00	6.07E-03	3.11E-04	0.00E+00	1.82E-03	5.60E-05	0.00E+00	6.89E-04	1.81E-05	0.00E+00
2989	457232.7	3768098	0.005882	3.02E-04	0.00E+00	5.88E-03	3.02E-04	0.00E+00	1.76E-03	5.42E-05	0.00E+00	6.67E-04	1.75E-05	0.00E+00
2990	457232.7	3768108	0.00567	2.91E-04	0.00E+00	5.67E-03	2.91E-04	0.00E+00	1.70E-03	5.23E-05	0.00E+00	6.43E-04	1.69E-05	0.00E+00
2991	457232.8	3768117	0.005437	2.79E-04	0.00E+00	5.44E-03	2.79E-04	0.00E+00	1.63E-03	5.01E-05	0.00E+00	6.17E-04	1.62E-05	0.00E+00
2992	457232.9	3768127	0.005185	2.66E-04	0.00E+00	5.19E-03	2.66E-04	0.00E+00	1.55E-03	4.78E-05	0.00E+00	5.88E-04	1.54E-05	0.00E+00
2993	457232.9	3768137	0.004921	2.52E-04	0.00E+00	4.92E-03	2.52E-04	0.00E+00	1.47E-03	4.54E-05	0.00E+00	5.58E-04	1.46E-05	0.00E+00
2994	457233	3768146	0.004655	2.39E-04	0.00E+00	4.66E-03	2.39E-04	0.00E+00	1.39E-03	4.29E-05	0.00E+00	5.28E-04	1.39E-05	0.00E+00
2995	457233.1	3768156	0.004383	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
2996	457233.2	3768166	0.004111	2.11E-04	0.00E+00	4.11E-03	2.11E-04	0.00E+00	1.23E-03	3.79E-05	0.00E+00	4.66E-04	1.22E-05	0.00E+00
2997	457233.2	3768175	0.003838	1.97E-04	0.00E+00	3.84E-03	1.97E-04	0.00E+00	1.15E-03	3.54E-05	0.00E+00	4.35E-04	1.14E-05	0.00E+00
2998	457233.3	3768185	0.003573	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
2999	457233.4	3768194	0.003322	1.70E-04	0.00E+00	3.32E-03	1.70E-04	0.00E+00	9.95E-04	3.06E-05	0.00E+00	3.77E-04	9.88E-06	0.00E+00
3000	457233.5	3768204	0.003085	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.24E-04	2.84E-05	0.00E+00	3.50E-04	9.18E-06	0.00E+00
3001	457233.5	3768214	0.002866	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.58E-04	2.64E-05	0.00E+00	3.25E-04	8.53E-06	0.00E+00
3002	457233.6	3768223	0.002664	1.37E-04	0.00E+00	2.66E-03	1.37E-04	0.00E+00	7.98E-04	2.46E-05	0.00E+00	3.02E-04	7.93E-06	0.00E+00
3003	457233.7	3768233	0.002481	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.81E-04	7.38E-06	0.00E+00
3004	457225.8	3768022	0.006188	3.17E-04	0.00E+00	6.19E-03	3.17E-04	0.00E+00	1.85E-03	5.70E-05	0.00E+00	7.02E-04	1.84E-05	0.00E+00
3005	457229.4	3768013	0.006353	3.26E-04	0.00E+00	6.35E-03	3.26E-04	0.00E+00	1.90E-03	5.86E-05	0.00E+00	7.21E-04	1.89E-05	0.00E+00
3006	457233	3768004	0.006488	3.33E-04	0.00E+00	6.49E-03	3.33E-04	0.00E+00	1.94E-03	5.98E-05	0.00E+00	7.36E-04	1.93E-05	0.00E+00
3007	457236.6	3767995	0.006591	3.38E-04	0.00E+00	6.59E-03	3.38E-04	0.00E+00	1.97E-03	6.08E-05	0.00E+00	7.48E-04	1.96E-05	0.00E+00
3008	457240.2	3767986	0.006663	3.42E-04	0.00E+00	6.66E-03	3.42E-04	0.00E+00	2.00E-03	6.14E-05	0.00E+00	7.56E-04	1.98E-05	0.00E+00
3009	457243.9	3767978	0.006695	3.43E-04	0.00E+00	6.70E-03	3.43E-04	0.00E+00	2.01E-03	6.17E-05	0.00E+00	7.60E-04	1.99E-05	0.00E+00
3010	457247.5	3767969	0.0067	3.43E-04	0.00E+00	6.70E-03	3.43E-04	0.00E+00	2.01E-03	6.18E-05	0.00E+00	7.60E-04	1.99E-05	0.00E+00
3011	457260	3767956	0.006956	3.57E-04	0.00E+00	6.96E-03	3.57E-04	0.00E+00	2.08E-03	6.41E-05	0.00E+00	7.89E-04	2.07E-05	0.00E+00
3012	457268.8	3767952	0.007212	3.70E-04	0.00E+00	7.21E-03	3.70E-04	0.00E+00	2.16E-03	6.65E-05	0.00E+00	8.18E-04	2.15E-05	0.00E+00
3013	457277.7	3767949	0.007437	3.81E-04	0.00E+00	7.44E-03	3.81E-04	0.00E+00	2.23E-03	6.86E-05	0.00E+00	8.44E-04	2.21E-05	0.00E+00
3014	457286.5	3767945	0.007633	3.91E-04	0.00E+00	7.63E-03	3.91E-04	0.00E+00	2.29E-03	7.04E-05	0.00E+00	8.66E-04	2.27E-05	0.00E+00
3015	457222.1	3768031	0.005993	3.07E-04	0.00E+00	5.99E-03	3.07E-04	0.00E+00	1.79E-03	5.52E-05	0.00E+00	6.80E-04	1.78E-05	0.00E+00
3016	457222.2	3768041	0.005965	3.06E-04	0.00E+00	5.97E-03	3.06E-04	0.00E+00	1.79E-03	5.50E-05	0.00E+00	6.77E-04	1.78E-05	0.00E+00
3017	457222.3	3768050	0.005913	3.03E-04	0.00E+00	5.91E-03	3.03E-04	0.00E+00	1.77E-03	5.45E-05	0.00E+00	6.71E-04	1.76E-05	0.00E+00
3018	457222.4	3768060	0.005837	2.99E-04	0.00E+00	5.84E-03	2.99E-04	0.00E+00	1.75E-03	5.38E-05	0.00E+00	6.62E-04	1.74E-05	0.00E+00
3019	457222.4	3768069	0.005736	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.51E-04	1.71E-05	0.00E+00
3020	457222.5	3768079	0.005609	2.88E-04	0.00E+00	5.61E-03	2.88E-04	0.00E+00	1.68E-03	5.17E-05	0.00E+00	6.36E-04	1.67E-05	0.00E+00
3021	457222.6	3768089	0.00546	2.80E-04	0.00E+00	5.46E-03	2.80E-04	0.00E+00	1.64E-03	5.03E-05	0.00E+00	6.20E-04	1.62E-05	0.00E+00
3022	457222.7	3768098	0.005289	2.71E-04	0.00E+00	5.29E-03	2.71E-04	0.00E+00	1.58E-03	4.88E-05	0.00E+00	6.00E-04	1.57E-05	0.00E+00
3023	457222.7	3768108	0.005098	2.61E-04	0.00E+00	5.10E-03	2.61E-04	0.00E+00	1.53E-03	4.70E-05	0.00E+00	5.78E-04	1.52E-05	0.00E+00
3024	457222.8	3768118	0.004887	2.51E-04	0.00E+00	4.89E-03	2.51E-04	0.00E+00	1.46E-03	4.51E-05	0.00E+00	5.54E-04	1.45E-05	0.00E+00
3025	457222.9	3768127	0.004664	2.39E-04	0.00E+00	4.66E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
3026	457222.9	3768137	0.004431	2.27E-04	0.00E+00	4.43E-03	2.27E-04	0.00E+00	1.33E-03	4.08E-05	0.00E+00	5.03E-04	1.32E-05	0.00E+00
3027	457223	3768146	0.004199	2.15E-04	0.00E+00	4.20E-03	2.15E-04	0.00E+00	1.26E-03	3.87E-05	0.00E+00	4.76E-04	1.25E-05	0.00E+00
3028	457223.1	3768156	0.003963	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.50E-04	1.18E-05	0.00E+00
3029	457223.2	3768166	0.003727	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
3030	457223.2	3768175	0.003492	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.96E-04	1.04E-05	0.00E+00
3031	457223.3	3768185	0.003265	1.67E-04	0.00E+00	3.27E-03	1.67E-04	0.00E+00	9.78E-04	3.01E-05	0.00E+00	3.70E-04	9.72E-06	0.00E+00
3032	457223.4	3768194	0.00305	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.13E-04	2.81E-05	0.00E+00	3.46E-04	9.07E-06	0.00E+00
3033	457223.5	3768204	0.002846	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.52E-04	2.62E-05	0.00E+00	3.23E-04	8.47E-06	0.00E+00
3034	457223.5	3768214	0.002656	1.36E-04	0.00E+00	2.66E-03	1.36E-04	0.00E+00	7.95E-04	2.45E-05	0.00E+00	3.01E-04	7.90E-06	0.00E+00
3035	457223.6	3768223	0.00248	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.81E-04	7.38E-06	0.00E+00
3036	457223.7	3768233	0.00232	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.95E-04	2.14E-05	0.00E+00	2.63E-04	6.90E-06	0.00E+00
3037	457200.8	3768022	0.005035	2.58E-04	0.00E+00	5.04E-03	2.58E-04	0.00E+00	1.51E-03	4.64E-05	0.00E+00	5.71E-04	1.50E-05	0.00E+00
3038	457204.4	3768013	0.005197	2.66E-04	0.00E+00	5.20E-03	2.66E-04	0.00E+00	1.56E-03	4.79E-05	0.00E+00	5.90E-04	1.55E-05	0.00E+00
3039	457208	3768004	0.005337	2.74E-04	0.00E+00	5.34E-03	2.74E-04	0.00E+00	1.60E-03	4.92E-05	0.00E+00	6.05E-04	1.59E-05	0.00E+00
3040	457211.6	3767996	0.005457	2.80E-04	0.00E+00	5.46E-03	2.80E-04	0.00E+00	1.63E-03	5.03E-05	0.00E+00	6.19E-04	1.62E-05	0.00E+00
3041	457215.2	3767987	0.005558	2.85E-04	0.00E+00	5.56E-03	2.85E-04	0.00E+00	1.66E-03	5.12E-05	0.00E+00	6.31E-04	1.65E-05	0.00E+00
3042	457218.9	3767978	0.005641	2.89E-04	0.00E+00	5.64E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.40E-04	1.68E-05	0.00E+00
3043	457222.5	3767969	0.0057	2.92E-04	0.00E+00	5.70E-03	2.92E-04	0.00E+00	1.71E-03	5.25E-05	0.00E+00	6.47E-04	1.70E-05	0.00E+00
3044	457226.1	3767960	0.005737	2.94E-04	0.00E+00	5.74E-03	2.94E-04	0.00E+00	1.72E-03	5.29E-05	0.00E+00	6.51E-04	1.71E-05	0.00E+00
3045	457229.7	3767951	0.005753	2.95E-04	0.00E+00	5.75E-03	2.95E-04	0.00E+00	1.72E-03	5.30E-05	0.00E+00	6.53E-04	1.71E-05	0.00E+00
3046	457242.2	3767939	0.005976	3.06E-04	0.00E+00	5.98E-03	3.06E-04	0.00E+00	1.79E-03	5.51E-05	0.00E+00	6.78E-04	1.78E-05	0.00E+00
3047	457251.1	3767935	0.006189	3.17E-04	0.00E+00	6.19E-03	3.17E-04	0.00E+00	1.85E-03	5.70E-05	0.00E+00	7.02E-04	1.84E-05	0.00E+00
3048	457259.9	3767931	0.006384	3.27E-04	0.00E+00	6.38E-03	3.27E-04	0.00E+00	1.91E-03	5.89E-05	0.00E+00	7.24E-04	1.90E-05	0.00E+00
3049	457268.8	3767927	0.00656	3.36E-04	0.00E+00	6.56E-03	3.36E-04	0.00E+00	1.96E-03	6.05E-05	0.00E+00	7.44E-04	1.95E-05	0.00E+00
3050	457277.6	3767924	0.006718	3.44E-04	0.00E+00	6.72E-03	3.44E-04	0.00E+00	2.01E-03	6.19E-05	0.00E+00	7.62E-04	2.00E-05	0.00E+00
3051	457286.5	3767920	0.006853	3.51E-04	0.00E+00	6.85E-03	3.51E-04	0.00E+00	2.05E-03	6.32E-05	0.00E+00	7.78E-04	2.04E-05	0.00E+00
3052	457197.1	3768031	0.004856	2.49E-04	0.00E+00	4.86E-03	2.49E-04	0.00E+00	1.45E-03	4.48E-05	0.00E+00	5.51E-04	1.45E-05	0.00E+00
3053	457197.2	3768041	0.004803	2.46E-04	0.00E+00	4.80E-03	2.46E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.45E-04	1.43E-05	0.00E+00
3054	457197.3	3768050	0.004732	2.43E-04	0.00E+00	4.73E-03	2.43E-04	0.00E+00	1.42E-03	4.36E-05	0.00E+00	5.37E-04	1.41E-05	0.00E+00
3055	457197.4	3768060	0.004646	2.38E-04	0.00E+00	4.65E-03	2.38E-04	0.00E+00	1.39E-03	4.28E-05	0.00E+00	5.27E-04	1.38E-05	0.00E+00
3056	457197.4	3768070	0.004543	2.33E-04	0.00E+00	4.54E-03	2.33E-04	0.00E+00	1.36E-03	4.19E-05	0.00E+00	5.15E-04	1.35E-05	0.00E+00
3057	457197.5	3768079	0.004427	2.27E-04	0.00E+00	4.43E-03	2.27E-04	0.00E+00	1.33E-03	4.08E-05	0.00E+00	5.02E-04	1.32E-05	0.00E+00
3058	457197.6	3768089	0.004302	2.21E-04	0.00E+00	4.30E-03	2.21E-04	0.00E+00	1.29E-03	3.97E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
3059	457197.7	3768098	0.004164	2.13E-04	0.00E+00	4.16E-03	2.13E-04	0.00E+00	1.25E-03	3.84E-05	0.00E+00	4.72E-04	1.24E-05	0.00E+00
3060	457197.7	3768108	0.004014	2.06E-04	0.00E+00	4.01E-03	2.06E-04	0.00E+00	1.20E-03	3.70E-05	0.00E+00	4.55E-04	1.19E-05	0.00E+00
3061	457197.8	3768118	0.003852	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
3062	457197.9	3768127	0.003684	1.89E-04	0.00E+00	3.68E-03	1.89E-04	0.00E+00	1.10E-03	3.40E-05	0.00E+00	4.18E-04	1.10E-05	0.00E+00
3063	457198	3768137	0.003512	1.80E-04	0.00E+00	3.51E-03	1.80E-04	0.00E+00	1.05E-03	3.24E-05	0.00E+00	3.98E-04	1.05E-05	0.00E+00
3064	457198	3768147	0.003341	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	1.00E-03	3.08E-05	0.00E+00	3.79E-04	9.94E-06	0.00E+00
3065	457198.1	3768156	0.003169	1.62E-04	0.00E+00	3.17E-03	1.62E-04	0.00E+00	9.49E-04	2.92E-05	0.00E+00	3.60E-04	9.43E-06	0.00E+00
3066	457198.2	3768166	0.003	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.99E-04	2.77E-05	0.00E+00	3.40E-04	8.93E-06	0.00E+00
3067	457198.2	3768175	0.002834	1.45E-04	0.00E+00	2.83E-03	1.45E-04	0.00E+00	8.49E-04	2.61E-05	0.00E+00	3.22E-04	8.43E-06	0.00E+00
3068	457198.3	3768185	0.002673	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	8.01E-04	2.46E-05	0.00E+00	3.03E-04	7.96E-06	0.00E+00
3069	457198.4	3768195	0.00252	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.55E-04	2.32E-05	0.00E+00	2.86E-04	7.50E-06	0.00E+00

3070	457198.5	3768204	0.002374	1.22E-04	0.00E+00	2.37E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.06E-06	0.00E+00
3071	457198.5	3768214	0.002236	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.70E-04	2.06E-05	0.00E+00	2.54E-04	6.65E-06	0.00E+00
3072	457198.6	3768224	0.002107	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
3073	457198.7	3768233	0.001987	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.25E-04	5.91E-06	0.00E+00
3074	457175.8	3768022	0.004159	2.13E-04	0.00E+00	4.16E-03	2.13E-04	0.00E+00	1.25E-03	3.83E-05	0.00E+00	4.72E-04	1.24E-05	0.00E+00
3075	457179.4	3768014	0.004307	2.21E-04	0.00E+00	4.31E-03	2.21E-04	0.00E+00	1.29E-03	3.97E-05	0.00E+00	4.89E-04	1.28E-05	0.00E+00
3076	457183	3768005	0.004441	2.28E-04	0.00E+00	4.44E-03	2.28E-04	0.00E+00	1.33E-03	4.09E-05	0.00E+00	5.04E-04	1.32E-05	0.00E+00
3077	457186.6	3767996	0.004562	2.34E-04	0.00E+00	4.56E-03	2.34E-04	0.00E+00	1.37E-03	4.21E-05	0.00E+00	5.18E-04	1.36E-05	0.00E+00
3078	457190.2	3767987	0.00467	2.39E-04	0.00E+00	4.67E-03	2.39E-04	0.00E+00	1.40E-03	4.31E-05	0.00E+00	5.30E-04	1.39E-05	0.00E+00
3079	457193.9	3767978	0.004768	2.44E-04	0.00E+00	4.77E-03	2.44E-04	0.00E+00	1.43E-03	4.40E-05	0.00E+00	5.41E-04	1.42E-05	0.00E+00
3080	457197.5	3767969	0.004851	2.49E-04	0.00E+00	4.85E-03	2.49E-04	0.00E+00	1.45E-03	4.47E-05	0.00E+00	5.50E-04	1.44E-05	0.00E+00
3081	457201.1	3767960	0.004919	2.52E-04	0.00E+00	4.92E-03	2.52E-04	0.00E+00	1.47E-03	4.53E-05	0.00E+00	5.58E-04	1.46E-05	0.00E+00
3082	457204.7	3767951	0.004971	2.55E-04	0.00E+00	4.97E-03	2.55E-04	0.00E+00	1.49E-03	4.58E-05	0.00E+00	5.64E-04	1.48E-05	0.00E+00
3083	457208.3	3767942	0.005007	2.57E-04	0.00E+00	5.01E-03	2.57E-04	0.00E+00	1.50E-03	4.62E-05	0.00E+00	5.68E-04	1.49E-05	0.00E+00
3084	457212	3767934	0.005029	2.58E-04	0.00E+00	5.03E-03	2.58E-04	0.00E+00	1.51E-03	4.64E-05	0.00E+00	5.71E-04	1.50E-05	0.00E+00
3085	457224.4	3767921	0.005222	2.68E-04	0.00E+00	5.22E-03	2.68E-04	0.00E+00	1.56E-03	4.81E-05	0.00E+00	5.92E-04	1.55E-05	0.00E+00
3086	457233.3	3767917	0.0054	2.77E-04	0.00E+00	5.40E-03	2.77E-04	0.00E+00	1.62E-03	4.98E-05	0.00E+00	6.13E-04	1.61E-05	0.00E+00
3087	457242.2	3767914	0.005569	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.32E-04	1.66E-05	0.00E+00
3088	457251	3767910	0.005725	2.94E-04	0.00E+00	5.73E-03	2.94E-04	0.00E+00	1.71E-03	5.28E-05	0.00E+00	6.50E-04	1.70E-05	0.00E+00
3089	457259.9	3767906	0.005868	3.01E-04	0.00E+00	5.87E-03	3.01E-04	0.00E+00	1.76E-03	5.41E-05	0.00E+00	6.66E-04	1.75E-05	0.00E+00
3090	457268.7	3767902	0.005995	3.07E-04	0.00E+00	6.00E-03	3.07E-04	0.00E+00	1.80E-03	5.53E-05	0.00E+00	6.80E-04	1.78E-05	0.00E+00
3091	457277.6	3767899	0.006106	3.13E-04	0.00E+00	6.11E-03	3.13E-04	0.00E+00	1.83E-03	5.63E-05	0.00E+00	6.93E-04	1.82E-05	0.00E+00
3092	457286.5	3767895	0.006199	3.18E-04	0.00E+00	6.20E-03	3.18E-04	0.00E+00	1.86E-03	5.71E-05	0.00E+00	7.03E-04	1.84E-05	0.00E+00
3093	457172.1	3768031	0.004002	2.05E-04	0.00E+00	4.00E-03	2.05E-04	0.00E+00	1.20E-03	3.69E-05	0.00E+00	4.54E-04	1.19E-05	0.00E+00
3094	457172.2	3768041	0.003943	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.63E-05	0.00E+00	4.47E-04	1.17E-05	0.00E+00
3095	457172.3	3768051	0.003872	1.98E-04	0.00E+00	3.87E-03	1.98E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.39E-04	1.15E-05	0.00E+00
3096	457172.4	3768060	0.00379	1.94E-04	0.00E+00	3.79E-03	1.94E-04	0.00E+00	1.14E-03	3.49E-05	0.00E+00	4.30E-04	1.13E-05	0.00E+00
3097	457172.4	3768070	0.003698	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.20E-04	1.10E-05	0.00E+00
3098	457172.5	3768079	0.003598	1.84E-04	0.00E+00	3.60E-03	1.84E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.08E-04	1.07E-05	0.00E+00
3099	457172.6	3768089	0.003492	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.96E-04	1.04E-05	0.00E+00
3100	457172.7	3768099	0.003379	1.73E-04	0.00E+00	3.38E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.01E-05	0.00E+00
3101	457172.7	3768108	0.00326	1.67E-04	0.00E+00	3.26E-03	1.67E-04	0.00E+00	9.76E-04	3.00E-05	0.00E+00	3.70E-04	9.70E-06	0.00E+00
3102	457172.8	3768118	0.003135	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.39E-04	2.89E-05	0.00E+00	3.56E-04	9.33E-06	0.00E+00
3103	457172.9	3768128	0.003006	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.00E-04	2.77E-05	0.00E+00	3.41E-04	8.95E-06	0.00E+00
3104	457173	3768137	0.002876	1.47E-04	0.00E+00	2.88E-03	1.47E-04	0.00E+00	8.62E-04	2.65E-05	0.00E+00	3.26E-04	8.56E-06	0.00E+00
3105	457173	3768147	0.002746	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.22E-04	2.53E-05	0.00E+00	3.12E-04	8.17E-06	0.00E+00
3106	457173.1	3768156	0.002616	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.84E-04	2.41E-05	0.00E+00	2.97E-04	7.78E-06	0.00E+00
3107	457173.2	3768166	0.002489	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.45E-04	2.29E-05	0.00E+00	2.82E-04	7.41E-06	0.00E+00
3108	457173.2	3768176	0.002366	1.21E-04	0.00E+00	2.37E-03	1.21E-04	0.00E+00	7.09E-04	2.18E-05	0.00E+00	2.68E-04	7.04E-06	0.00E+00
3109	457173.3	3768185	0.002248	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.73E-04	2.07E-05	0.00E+00	2.55E-04	6.69E-06	0.00E+00
3110	457173.4	3768195	0.002134	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.39E-04	1.97E-05	0.00E+00	2.42E-04	6.35E-06	0.00E+00
3111	457173.5	3768204	0.002024	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.06E-04	1.87E-05	0.00E+00	2.30E-04	6.02E-06	0.00E+00
3112	457173.5	3768214	0.00192	9.84E-05	0.00E+00	1.92E-03	9.84E-05	0.00E+00	5.75E-04	1.77E-05	0.00E+00	2.18E-04	5.71E-06	0.00E+00
3113	457173.6	3768224	0.001822	9.34E-05	0.00E+00	1.82E-03	9.34E-05	0.00E+00	5.46E-04	1.68E-05	0.00E+00	2.07E-04	5.42E-06	0.00E+00
3114	457173.7	3768233	0.001729	8.86E-05	0.00E+00	1.73E-03	8.86E-05	0.00E+00	5.18E-04	1.59E-05	0.00E+00	1.96E-04	5.15E-06	0.00E+00
3115	457150.8	3768023	0.00348	1.78E-04	0.00E+00	3.48E-03	1.78E-04	0.00E+00	1.04E-03	3.21E-05	0.00E+00	3.95E-04	1.04E-05	0.00E+00
3116	457154.4	3768014	0.003608	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
3117	457158	3768005	0.003732	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.44E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
3118	457161.6	3767996	0.003848	1.97E-04	0.00E+00	3.85E-03	1.97E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
3119	457165.2	3767987	0.003956	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.18E-03	3.65E-05	0.00E+00	4.49E-04	1.18E-05	0.00E+00
3120	457168.9	3767978	0.004055	2.08E-04	0.00E+00	4.06E-03	2.08E-04	0.00E+00	1.21E-03	3.74E-05	0.00E+00	4.60E-04	1.21E-05	0.00E+00
3121	457172.5	3767969	0.004145	2.13E-04	0.00E+00	4.15E-03	2.13E-04	0.00E+00	1.24E-03	3.82E-05	0.00E+00	4.70E-04	1.23E-05	0.00E+00
3122	457176.1	3767960	0.004224	2.17E-04	0.00E+00	4.22E-03	2.17E-04	0.00E+00	1.27E-03	3.89E-05	0.00E+00	4.79E-04	1.26E-05	0.00E+00
3123	457179.7	3767951	0.004292	2.20E-04	0.00E+00	4.29E-03	2.20E-04	0.00E+00	1.29E-03	3.96E-05	0.00E+00	4.87E-04	1.28E-05	0.00E+00
3124	457183.3	3767943	0.004348	2.23E-04	0.00E+00	4.35E-03	2.23E-04	0.00E+00	1.30E-03	4.01E-05	0.00E+00	4.93E-04	1.29E-05	0.00E+00
3125	457187	3767934	0.004393	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.32E-03	4.05E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
3126	457190.6	3767925	0.004425	2.27E-04	0.00E+00	4.43E-03	2.27E-04	0.00E+00	1.33E-03	4.08E-05	0.00E+00	5.02E-04	1.32E-05	0.00E+00
3127	457194.2	3767916	0.004445	2.28E-04	0.00E+00	4.45E-03	2.28E-04	0.00E+00	1.33E-03	4.10E-05	0.00E+00	5.04E-04	1.32E-05	0.00E+00
3128	457206.7	3767903	0.004615	2.37E-04	0.00E+00	4.61E-03	2.37E-04	0.00E+00	1.38E-03	4.25E-05	0.00E+00	5.24E-04	1.37E-05	0.00E+00
3129	457215.5	3767900	0.004768	2.44E-04	0.00E+00	4.77E-03	2.44E-04	0.00E+00	1.43E-03	4.40E-05	0.00E+00	5.41E-04	1.42E-05	0.00E+00
3130	457224.4	3767896	0.004913	2.52E-04	0.00E+00	4.91E-03	2.52E-04	0.00E+00	1.47E-03	4.53E-05	0.00E+00	5.57E-04	1.46E-05	0.00E+00
3131	457233.3	3767892	0.00505	2.59E-04	0.00E+00	5.05E-03	2.59E-04	0.00E+00	1.51E-03	4.66E-05	0.00E+00	5.73E-04	1.50E-05	0.00E+00
3132	457242.1	3767889	0.005178	2.65E-04	0.00E+00	5.18E-03	2.65E-04	0.00E+00	1.55E-03	4.77E-05	0.00E+00	5.87E-04	1.54E-05	0.00E+00
3133	457251	3767885	0.005294	2.71E-04	0.00E+00	5.29E-03	2.71E-04	0.00E+00	1.59E-03	4.88E-05	0.00E+00	6.01E-04	1.58E-05	0.00E+00
3134	457259.8	3767881	0.005398	2.77E-04	0.00E+00	5.40E-03	2.77E-04	0.00E+00	1.62E-03	4.98E-05	0.00E+00	6.12E-04	1.61E-05	0.00E+00
3135	457268.7	3767877	0.005489	2.81E-04	0.00E+00	5.49E-03	2.81E-04	0.00E+00	1.64E-03	5.06E-05	0.00E+00	6.23E-04	1.63E-05	0.00E+00
3136	457277.6	3767874	0.005566	2.85E-04	0.00E+00	5.57E-03	2.85E-04	0.00E+00	1.67E-03	5.13E-05	0.00E+00	6.32E-04	1.66E-05	0.00E+00
3137	457286.4	3767870	0.005629	2.89E-04	0.00E+00	5.63E-03	2.89E-04	0.00E+00	1.69E-03	5.19E-05	0.00E+00	6.39E-04	1.68E-05	0.00E+00
3138	457147.1	3768032	0.003349	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.97E-06	0.00E+00
3139	457147.2	3768041	0.003293	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.86E-04	3.04E-05	0.00E+00	3.74E-04	9.80E-06	0.00E+00
3140	457147.3	3768051	0.003228	1.65E-04	0.00E+00	3.23E-03	1.65E-04	0.00E+00	9.67E-04	2.98E-05	0.00E+00	3.66E-04	9.61E-06	0.00E+00
3141	457147.4	3768060	0.003155	1.62E-04	0.00E+00	3.15E-03	1.62E-04	0.00E+00	9.45E-04	2.91E-05	0.00E+00	3.58E-04	9.39E-06	0.00E+00
3142	457147.4	3768070	0.003075	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.21E-04	2.83E-05	0.00E+00	3.49E-04	9.15E-06	0.00E+00
3143	457147.5	3768080	0.00299	1.53E-04	0.00E+00	2.99E-03	1.53E-04	0.00E+00	8.96E-04	2.76E-05	0.00E+00	3.39E-04	8.90E-06	0.00E+00
3144	457147.6	3768089	0.002901	1.49E-04	0.00E+00	2.90E-03	1.49E-04	0.00E+00	8.69E-04	2.67E-05	0.00E+00	3.29E-04	8.63E-06	0.00E+00
3145	457147.7	3768099	0.002806	1.44E-04	0.00E+00	2.81E-03	1.44E-04	0.00E+00	8.41E-04	2.59E-05	0.00E+00	3.18E-04	8.35E-06	0.00E+00
3146	457147.7	3768108	0.00271	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.12E-04	2.50E-05	0.00E+00	3.07E-04	8.06E-06	0.00E+00
3147	457147.8	3768118	0.002613	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.83E-04	2.41E-05	0.00E+00	2.96E-04	7.78E-06	0.00E+00
3148	457147.9	3768128	0.002514	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.48E-06	0.00E+00
3149	457148	3768137	0.002415	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.23E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
3150	457148	3768147	0.002313	1.19E-04	0.00E+00	2.31E-03	1.19E-04	0.00E+00	6.93E-04	2.13E-05	0.00E+00	2.62E-04	6.88E-06	0.00E+00
3151	457148.1	3768157	0.002213	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.63E-04	2.04E-05	0.00E+00	2.51E-04	6.59E-06	0.00E+00
3152	457148.2	3768166	0.002115	1.08E-04	0.00E+00	2.12E-03	1.08E-04	0.00E+00	6.34E-04	1.95E-05	0.00E+00	2.40E-04	6.29E-06	0.00E+00
3153	457148.2	3768176	0.00202	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.05E-04	1.86E-05	0.00E+00	2.29E-04	6.01E-06	0.00E+00
3154	457148.3	3768185	0.001927	9.88E-05	0.00E+00	1.93E-03	9.88E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.19E-04	5.74E-06	0.00E+00
3155	457148.4	3768195	0.001838	9.42E-05	0.00E+00	1.84E-03	9.42E-05	0.00E+00	5.51E-04	1.69E-05	0.00E+00	2.09E-04	5.47E-06	0.00E+00
3156	457148.5	3768205	0.001754	8.99E-05	0.00E+00	1.75E-03	8.99E-05	0.00E+00	5.25E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
3157	457148.5	3768214	0.001673	8.58E-05	0.00E+00	1.67E-03	8.58E-05	0.00E+00	5.01E-04	1.54E-05	0.00E+00	1.90E-04	4.98E-06	0.00E+00
3158	457148.6	3768224	0.001597	8.18E-05	0.00E+00	1.60E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
3159	457148.7	3768234	0.001523	7.81E-05	0.00E+00	1.52E-03	7.81E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
3160	457125.8	3768023	0.002957	1.52E-04	0.00E+00	2.96E-03	1.52E-04	0.00E+00	8.86E-04	2.73E-05	0.00E+00	3.35E-04	8.80E-06	0.00E+00
3161	457129.4	3768014	0.003066	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.18E-04	2.83E-05	0.00E+00	3.48E-04	9.12E-06	0.00E+00
3162	457133	3768005	0.003174	1.63E-04	0.00E+00	3.17E-03	1.63E-04	0.00E+00	9.51E-04	2.93E-05	0.00E+00	3.60E-04	9.45E-06	0.00E+00
3163	457136.6	3767996	0.003279	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.82E-04	3.02E-05	0.00E+00	3.72E-04	9.76E-06	0.00E+00
3164	457140.2	3767987	0.003379	1.73E-04	0.00E+00	3.38E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.01E-05	0.00E+00
3165	457143.9	3767978	0.003473	1.78E-04	0.00E+00	3.47E-03	1.78E-04	0.00E+00	1.04E-03	3.20E-05	0.00E+00	3.94E-04	1.03E-05	0.00E+00

3166	457147.5	3767969	0.003561	1.83E-04	0.00E+00	3.56E-03	1.83E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
3167	457151.1	3767961	0.003642	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.36E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
3168	457154.7	3767952	0.003715	1.90E-04	0.00E+00	3.72E-03	1.90E-04	0.00E+00	1.11E-03	3.42E-05	0.00E+00	4.21E-04	1.11E-05	0.00E+00
3169	457158.3	3767943	0.00378	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.48E-05	0.00E+00	4.29E-04	1.12E-05	0.00E+00
3170	457162	3767934	0.003836	1.97E-04	0.00E+00	3.84E-03	1.97E-04	0.00E+00	1.15E-03	3.54E-05	0.00E+00	4.35E-04	1.14E-05	0.00E+00
3171	457165.6	3767925	0.003883	1.99E-04	0.00E+00	3.88E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.41E-04	1.16E-05	0.00E+00
3172	457169.2	3767916	0.003918	2.01E-04	0.00E+00	3.92E-03	2.01E-04	0.00E+00	1.17E-03	3.61E-05	0.00E+00	4.45E-04	1.17E-05	0.00E+00
3173	457172.8	3767907	0.003945	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.64E-05	0.00E+00	4.48E-04	1.17E-05	0.00E+00
3174	457176.4	3767898	0.003962	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.50E-04	1.18E-05	0.00E+00
3175	457188.9	3767886	0.00411	2.11E-04	0.00E+00	4.11E-03	2.11E-04	0.00E+00	1.23E-03	3.79E-05	0.00E+00	4.66E-04	1.22E-05	0.00E+00
3176	457197.8	3767882	0.004242	2.17E-04	0.00E+00	4.24E-03	2.17E-04	0.00E+00	1.27E-03	3.91E-05	0.00E+00	4.81E-04	1.26E-05	0.00E+00
3177	457206.6	3767878	0.004368	2.24E-04	0.00E+00	4.37E-03	2.24E-04	0.00E+00	1.31E-03	4.03E-05	0.00E+00	4.96E-04	1.30E-05	0.00E+00
3178	457215.5	3767875	0.004488	2.30E-04	0.00E+00	4.49E-03	2.30E-04	0.00E+00	1.34E-03	4.14E-05	0.00E+00	5.09E-04	1.34E-05	0.00E+00
3179	457224.4	3767871	0.004603	2.36E-04	0.00E+00	4.60E-03	2.36E-04	0.00E+00	1.38E-03	4.24E-05	0.00E+00	5.22E-04	1.37E-05	0.00E+00
3180	457233.2	3767867	0.004711	2.42E-04	0.00E+00	4.71E-03	2.42E-04	0.00E+00	1.41E-03	4.34E-05	0.00E+00	5.35E-04	1.40E-05	0.00E+00
3181	457242.1	3767864	0.004809	2.47E-04	0.00E+00	4.81E-03	2.47E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.46E-04	1.43E-05	0.00E+00
3182	457250.9	3767860	0.004895	2.51E-04	0.00E+00	4.89E-03	2.51E-04	0.00E+00	1.47E-03	4.51E-05	0.00E+00	5.55E-04	1.46E-05	0.00E+00
3183	457259.8	3767856	0.004971	2.55E-04	0.00E+00	4.97E-03	2.55E-04	0.00E+00	1.49E-03	4.58E-05	0.00E+00	5.64E-04	1.48E-05	0.00E+00
3184	457268.7	3767852	0.005036	2.58E-04	0.00E+00	5.04E-03	2.58E-04	0.00E+00	1.51E-03	4.64E-05	0.00E+00	5.71E-04	1.50E-05	0.00E+00
3185	457277.5	3767849	0.00509	2.61E-04	0.00E+00	5.09E-03	2.61E-04	0.00E+00	1.52E-03	4.69E-05	0.00E+00	5.77E-04	1.51E-05	0.00E+00
3186	457286.4	3767845	0.005131	2.63E-04	0.00E+00	5.13E-03	2.63E-04	0.00E+00	1.54E-03	4.73E-05	0.00E+00	5.82E-04	1.53E-05	0.00E+00
3187	457122.1	3768032	0.002846	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.52E-04	2.62E-05	0.00E+00	3.23E-04	8.47E-06	0.00E+00
3188	457122.2	3768041	0.002794	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.37E-04	2.58E-05	0.00E+00	3.17E-04	8.31E-06	0.00E+00
3189	457122.3	3768051	0.002735	1.40E-04	0.00E+00	2.74E-03	1.40E-04	0.00E+00	8.19E-04	2.52E-05	0.00E+00	3.10E-04	8.14E-06	0.00E+00
3190	457122.4	3768061	0.002671	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	8.00E-04	2.46E-05	0.00E+00	3.03E-04	7.95E-06	0.00E+00
3191	457122.4	3768070	0.002603	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.95E-04	7.75E-06	0.00E+00
3192	457122.5	3768080	0.002532	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.58E-04	2.33E-05	0.00E+00	2.87E-04	7.53E-06	0.00E+00
3193	457122.6	3768089	0.002458	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.36E-04	2.27E-05	0.00E+00	2.79E-04	7.31E-06	0.00E+00
3194	457122.7	3768099	0.002381	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.13E-04	2.19E-05	0.00E+00	2.70E-04	7.08E-06	0.00E+00
3195	457122.7	3768109	0.002302	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
3196	457122.8	3768118	0.002224	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.66E-04	2.05E-05	0.00E+00	2.52E-04	6.62E-06	0.00E+00
3197	457122.9	3768128	0.002145	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
3198	457123	3768138	0.002066	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.19E-04	1.90E-05	0.00E+00	2.34E-04	6.15E-06	0.00E+00
3199	457123	3768147	0.001986	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.25E-04	5.91E-06	0.00E+00
3200	457123.1	3768157	0.001907	9.77E-05	0.00E+00	1.91E-03	9.77E-05	0.00E+00	5.71E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
3201	457123.2	3768166	0.001829	9.38E-05	0.00E+00	1.83E-03	9.38E-05	0.00E+00	5.48E-04	1.69E-05	0.00E+00	2.07E-04	5.44E-06	0.00E+00
3202	457123.2	3768176	0.001753	8.99E-05	0.00E+00	1.75E-03	8.99E-05	0.00E+00	5.25E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
3203	457123.3	3768186	0.00168	8.61E-05	0.00E+00	1.68E-03	8.61E-05	0.00E+00	5.03E-04	1.55E-05	0.00E+00	1.91E-04	5.00E-06	0.00E+00
3204	457123.4	3768195	0.001609	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00
3205	457123.5	3768205	0.001542	7.90E-05	0.00E+00	1.54E-03	7.90E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
3206	457123.5	3768214	0.001477	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.68E-04	4.39E-06	0.00E+00
3207	457123.6	3768224	0.001415	7.25E-05	0.00E+00	1.42E-03	7.25E-05	0.00E+00	4.24E-04	1.30E-05	0.00E+00	1.61E-04	4.21E-06	0.00E+00
3208	457123.7	3768234	0.001356	6.95E-05	0.00E+00	1.36E-03	6.95E-05	0.00E+00	4.06E-04	1.25E-05	0.00E+00	1.54E-04	4.03E-06	0.00E+00
3209	457100.8	3768023	0.002543	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.62E-04	2.34E-05	0.00E+00	2.88E-04	7.57E-06	0.00E+00
3210	457104.4	3768014	0.002637	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.90E-04	2.43E-05	0.00E+00	2.99E-04	7.85E-06	0.00E+00
3211	457108	3768005	0.002731	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.13E-06	0.00E+00
3212	457111.6	3767996	0.002823	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.45E-04	2.60E-05	0.00E+00	3.20E-04	8.40E-06	0.00E+00
3213	457115.2	3767987	0.002912	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.72E-04	2.68E-05	0.00E+00	3.30E-04	8.66E-06	0.00E+00
3214	457118.9	3767979	0.002998	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.98E-04	2.76E-05	0.00E+00	3.40E-04	8.92E-06	0.00E+00
3215	457122.5	3767970	0.00308	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.22E-04	2.84E-05	0.00E+00	3.49E-04	9.16E-06	0.00E+00
3216	457126.1	3767961	0.003157	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.46E-04	2.91E-05	0.00E+00	3.58E-04	9.40E-06	0.00E+00
3217	457129.7	3767952	0.003229	1.66E-04	0.00E+00	3.23E-03	1.66E-04	0.00E+00	9.67E-04	2.98E-05	0.00E+00	3.66E-04	9.61E-06	0.00E+00
3218	457133.3	3767943	0.003294	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.87E-04	3.04E-05	0.00E+00	3.74E-04	9.80E-06	0.00E+00
3219	457137	3767934	0.003354	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.98E-06	0.00E+00
3220	457140.6	3767925	0.003407	1.75E-04	0.00E+00	3.41E-03	1.75E-04	0.00E+00	1.02E-03	3.14E-05	0.00E+00	3.87E-04	1.01E-05	0.00E+00
3221	457144.2	3767916	0.003454	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
3222	457147.8	3767907	0.003492	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.96E-04	1.04E-05	0.00E+00
3223	457151.4	3767899	0.003523	1.81E-04	0.00E+00	3.52E-03	1.81E-04	0.00E+00	1.06E-03	3.25E-05	0.00E+00	4.00E-04	1.05E-05	0.00E+00
3224	457155.1	3767890	0.003549	1.82E-04	0.00E+00	3.55E-03	1.82E-04	0.00E+00	1.06E-03	3.27E-05	0.00E+00	4.03E-04	1.06E-05	0.00E+00
3225	457158.7	3767881	0.003569	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
3226	457171.2	3767868	0.003697	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.19E-04	1.10E-05	0.00E+00
3227	457180	3767864	0.003809	1.95E-04	0.00E+00	3.81E-03	1.95E-04	0.00E+00	1.14E-03	3.51E-05	0.00E+00	4.32E-04	1.13E-05	0.00E+00
3228	457188.9	3767861	0.003919	2.01E-04	0.00E+00	3.92E-03	2.01E-04	0.00E+00	1.17E-03	3.61E-05	0.00E+00	4.45E-04	1.17E-05	0.00E+00
3229	457197.7	3767857	0.004024	2.06E-04	0.00E+00	4.02E-03	2.06E-04	0.00E+00	1.21E-03	3.71E-05	0.00E+00	4.56E-04	1.20E-05	0.00E+00
3230	457206.6	3767853	0.004124	2.11E-04	0.00E+00	4.12E-03	2.11E-04	0.00E+00	1.24E-03	3.80E-05	0.00E+00	4.68E-04	1.23E-05	0.00E+00
3231	457215.5	3767850	0.004219	2.16E-04	0.00E+00	4.22E-03	2.16E-04	0.00E+00	1.26E-03	3.89E-05	0.00E+00	4.79E-04	1.26E-05	0.00E+00
3232	457224.3	3767846	0.004307	2.21E-04	0.00E+00	4.31E-03	2.21E-04	0.00E+00	1.29E-03	3.97E-05	0.00E+00	4.89E-04	1.28E-05	0.00E+00
3233	457233.2	3767842	0.004387	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
3234	457242	3767839	0.004459	2.29E-04	0.00E+00	4.46E-03	2.29E-04	0.00E+00	1.34E-03	4.11E-05	0.00E+00	5.06E-04	1.33E-05	0.00E+00
3235	457250.9	3767835	0.004525	2.32E-04	0.00E+00	4.52E-03	2.32E-04	0.00E+00	1.36E-03	4.17E-05	0.00E+00	5.13E-04	1.35E-05	0.00E+00
3236	457259.8	3767831	0.004581	2.35E-04	0.00E+00	4.58E-03	2.35E-04	0.00E+00	1.37E-03	4.22E-05	0.00E+00	5.20E-04	1.36E-05	0.00E+00
3237	457268.6	3767827	0.004627	2.37E-04	0.00E+00	4.63E-03	2.37E-04	0.00E+00	1.39E-03	4.27E-05	0.00E+00	5.25E-04	1.38E-05	0.00E+00
3238	457277.5	3767824	0.004663	2.39E-04	0.00E+00	4.66E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
3239	457286.3	3767820	0.004689	2.40E-04	0.00E+00	4.69E-03	2.40E-04	0.00E+00	1.40E-03	4.32E-05	0.00E+00	5.32E-04	1.40E-05	0.00E+00
3240	457097.1	3768032	0.002447	1.25E-04	0.00E+00	2.45E-03	1.25E-04	0.00E+00	7.33E-04	2.26E-05	0.00E+00	2.78E-04	7.28E-06	0.00E+00
3241	457097.2	3768042	0.002399	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.18E-04	2.21E-05	0.00E+00	2.72E-04	7.14E-06	0.00E+00
3242	457097.3	3768051	0.002347	1.20E-04	0.00E+00	2.35E-03	1.20E-04	0.00E+00	7.03E-04	2.16E-05	0.00E+00	2.66E-04	6.98E-06	0.00E+00
3243	457097.4	3768061	0.002293	1.18E-04	0.00E+00	2.29E-03	1.18E-04	0.00E+00	6.87E-04	2.11E-05	0.00E+00	2.60E-04	6.82E-06	0.00E+00
3244	457097.4	3768070	0.002236	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.70E-04	2.06E-05	0.00E+00	2.54E-04	6.65E-06	0.00E+00
3245	457097.5	3768080	0.002177	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.52E-04	2.01E-05	0.00E+00	2.47E-04	6.48E-06	0.00E+00
3246	457097.6	3768090	0.002115	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.33E-04	1.95E-05	0.00E+00	2.40E-04	6.29E-06	0.00E+00
3247	457097.7	3768099	0.002051	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.14E-04	1.89E-05	0.00E+00	2.33E-04	6.10E-06	0.00E+00
3248	457097.7	3768109	0.001987	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.25E-04	5.91E-06	0.00E+00
3249	457097.8	3768118	0.001922	9.85E-05	0.00E+00	1.92E-03	9.85E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.72E-06	0.00E+00
3250	457097.9	3768128	0.001857	9.52E-05	0.00E+00	1.86E-03	9.52E-05	0.00E+00	5.56E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
3251	457098	3768138	0.001792	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
3252	457098	3768147	0.001728	8.86E-05	0.00E+00	1.73E-03	8.86E-05	0.00E+00	5.18E-04	1.59E-05	0.00E+00	1.96E-04	5.14E-06	0.00E+00
3253	457098.1	3768157	0.001665	8.54E-05	0.00E+00	1.67E-03	8.54E-05	0.00E+00	4.99E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
3254	457098.2	3768167	0.001603	8.22E-05	0.00E+00	1.60E-03	8.22E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
3255	457098.2	3768176	0.001542	7.90E-05	0.00E+00	1.54E-03	7.90E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
3256	457098.3	3768186	0.001482	7.60E-05	0.00E+00	1.48E-03	7.60E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
3257	457098.4	3768195	0.001425	7.30E-05	0.00E+00	1.42E-03	7.30E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
3258	457098.5	3768205	0.00137	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.08E-06	0.00E+00
3259	457098.5	3768215	0.001317	6.75E-05	0.00E+00	1.32E-03	6.75E-05	0.00E+00	3.94E-04	1.21E-05	0.00E+00	1.49E-04	3.92E-06	0.00E+00
3260	457098.6	3768224	0.001266	6.49E-05	0.00E+00	1.27E-03	6.49E-05	0.00E+00	3.79E-04	1.17E-05	0.00E+00	1.44E-04	3.77E-06	0.00E+00
3261	457098.7	3768234	0.001217	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00

3262	457075.8	3768023	0.002211	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.62E-04	2.04E-05	0.00E+00	2.51E-04	6.58E-06	0.00E+00
3263	457079.4	3768014	0.002292	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.86E-04	2.11E-05	0.00E+00	2.60E-04	6.82E-06	0.00E+00
3264	457083	3768005	0.002373	1.22E-04	0.00E+00	2.37E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.06E-06	0.00E+00
3265	457086.6	3767997	0.002453	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.35E-04	2.26E-05	0.00E+00	2.78E-04	7.30E-06	0.00E+00
3266	457090.2	3767988	0.002531	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.58E-04	2.33E-05	0.00E+00	2.87E-04	7.53E-06	0.00E+00
3267	457093.9	3767979	0.002608	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.81E-04	2.40E-05	0.00E+00	2.96E-04	7.76E-06	0.00E+00
3268	457097.5	3767970	0.002683	1.38E-04	0.00E+00	2.68E-03	1.38E-04	0.00E+00	8.04E-04	2.47E-05	0.00E+00	3.04E-04	7.98E-06	0.00E+00
3269	457101.1	3767961	0.002754	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.25E-04	2.54E-05	0.00E+00	3.12E-04	8.20E-06	0.00E+00
3270	457104.7	3767952	0.002822	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.45E-04	2.60E-05	0.00E+00	3.20E-04	8.40E-06	0.00E+00
3271	457108.3	3767943	0.002884	1.48E-04	0.00E+00	2.88E-03	1.48E-04	0.00E+00	8.64E-04	2.66E-05	0.00E+00	3.27E-04	8.58E-06	0.00E+00
3272	457112	3767934	0.002942	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.81E-04	2.71E-05	0.00E+00	3.34E-04	8.75E-06	0.00E+00
3273	457115.6	3767925	0.002995	1.54E-04	0.00E+00	3.00E-03	1.54E-04	0.00E+00	8.97E-04	2.76E-05	0.00E+00	3.40E-04	8.91E-06	0.00E+00
3274	457119.2	3767916	0.003046	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.12E-04	2.81E-05	0.00E+00	3.46E-04	9.06E-06	0.00E+00
3275	457122.8	3767908	0.003091	1.58E-04	0.00E+00	3.09E-03	1.58E-04	0.00E+00	9.26E-04	2.85E-05	0.00E+00	3.51E-04	9.20E-06	0.00E+00
3276	457126.4	3767899	0.003131	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.38E-04	2.89E-05	0.00E+00	3.55E-04	9.32E-06	0.00E+00
3277	457130.1	3767890	0.003166	1.62E-04	0.00E+00	3.17E-03	1.62E-04	0.00E+00	9.48E-04	2.92E-05	0.00E+00	3.59E-04	9.42E-06	0.00E+00
3278	457133.7	3767881	0.003195	1.64E-04	0.00E+00	3.20E-03	1.64E-04	0.00E+00	9.57E-04	2.95E-05	0.00E+00	3.63E-04	9.51E-06	0.00E+00
3279	457137.3	3767872	0.003219	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.64E-04	2.97E-05	0.00E+00	3.65E-04	9.58E-06	0.00E+00
3280	457140.9	3767863	0.003237	1.66E-04	0.00E+00	3.24E-03	1.66E-04	0.00E+00	9.70E-04	2.98E-05	0.00E+00	3.67E-04	9.63E-06	0.00E+00
3281	457153.4	3767851	0.00335	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.97E-06	0.00E+00
3282	457162.3	3767847	0.003448	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.91E-04	1.03E-05	0.00E+00
3283	457171.1	3767843	0.003544	1.82E-04	0.00E+00	3.54E-03	1.82E-04	0.00E+00	1.06E-03	3.27E-05	0.00E+00	4.02E-04	1.05E-05	0.00E+00
3284	457180	3767839	0.003636	1.86E-04	0.00E+00	3.64E-03	1.86E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
3285	457188.8	3767836	0.003725	1.91E-04	0.00E+00	3.73E-03	1.91E-04	0.00E+00	1.12E-03	3.43E-05	0.00E+00	4.23E-04	1.11E-05	0.00E+00
3286	457197.7	3767832	0.003809	1.95E-04	0.00E+00	3.81E-03	1.95E-04	0.00E+00	1.14E-03	3.51E-05	0.00E+00	4.32E-04	1.13E-05	0.00E+00
3287	457206.6	3767828	0.003889	1.99E-04	0.00E+00	3.89E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.41E-04	1.16E-05	0.00E+00
3288	457215.4	3767825	0.003962	2.03E-04	0.00E+00	3.96E-03	2.03E-04	0.00E+00	1.19E-03	3.65E-05	0.00E+00	4.50E-04	1.18E-05	0.00E+00
3289	457224.3	3767821	0.004029	2.07E-04	0.00E+00	4.03E-03	2.07E-04	0.00E+00	1.21E-03	3.71E-05	0.00E+00	4.57E-04	1.20E-05	0.00E+00
3290	457233.1	3767817	0.00409	2.10E-04	0.00E+00	4.09E-03	2.10E-04	0.00E+00	1.22E-03	3.77E-05	0.00E+00	4.64E-04	1.22E-05	0.00E+00
3291	457242	3767814	0.004144	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.82E-05	0.00E+00	4.70E-04	1.23E-05	0.00E+00
3292	457250.9	3767810	0.00419	2.15E-04	0.00E+00	4.19E-03	2.15E-04	0.00E+00	1.25E-03	3.86E-05	0.00E+00	4.75E-04	1.25E-05	0.00E+00
3293	457259.7	3767806	0.004227	2.17E-04	0.00E+00	4.23E-03	2.17E-04	0.00E+00	1.27E-03	3.90E-05	0.00E+00	4.80E-04	1.26E-05	0.00E+00
3294	457268.6	3767802	0.004257	2.18E-04	0.00E+00	4.26E-03	2.18E-04	0.00E+00	1.27E-03	3.92E-05	0.00E+00	4.83E-04	1.27E-05	0.00E+00
3295	457277.4	3767799	0.004282	2.20E-04	0.00E+00	4.28E-03	2.20E-04	0.00E+00	1.28E-03	3.95E-05	0.00E+00	4.86E-04	1.27E-05	0.00E+00
3296	457286.3	3767795	0.004298	2.20E-04	0.00E+00	4.30E-03	2.20E-04	0.00E+00	1.29E-03	3.96E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
3297	457072.1	3768032	0.002129	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.38E-04	1.96E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
3298	457072.2	3768042	0.002086	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.25E-04	1.92E-05	0.00E+00	2.37E-04	6.21E-06	0.00E+00
3299	457072.3	3768051	0.002041	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.32E-04	6.07E-06	0.00E+00
3300	457072.4	3768061	0.001995	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.94E-06	0.00E+00
3301	457072.4	3768071	0.001946	9.98E-05	0.00E+00	1.95E-03	9.98E-05	0.00E+00	5.83E-04	1.79E-05	0.00E+00	2.21E-04	5.79E-06	0.00E+00
3302	457072.5	3768080	0.001896	9.72E-05	0.00E+00	1.90E-03	9.72E-05	0.00E+00	5.68E-04	1.75E-05	0.00E+00	2.15E-04	5.64E-06	0.00E+00
3303	457072.6	3768090	0.001844	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
3304	457072.7	3768099	0.001791	9.18E-05	0.00E+00	1.79E-03	9.18E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
3305	457072.7	3768109	0.001737	8.90E-05	0.00E+00	1.74E-03	8.90E-05	0.00E+00	5.20E-04	1.60E-05	0.00E+00	1.97E-04	5.17E-06	0.00E+00
3306	457072.8	3768119	0.001683	8.63E-05	0.00E+00	1.68E-03	8.63E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
3307	457072.9	3768128	0.001629	8.35E-05	0.00E+00	1.63E-03	8.35E-05	0.00E+00	4.88E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
3308	457073	3768138	0.001575	8.08E-05	0.00E+00	1.58E-03	8.08E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
3309	457073	3768148	0.001523	7.81E-05	0.00E+00	1.52E-03	7.81E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
3310	457073.1	3768157	0.001471	7.54E-05	0.00E+00	1.47E-03	7.54E-05	0.00E+00	4.41E-04	1.36E-05	0.00E+00	1.67E-04	4.38E-06	0.00E+00
3311	457073.2	3768167	0.001421	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
3312	457073.2	3768176	0.00137	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.08E-06	0.00E+00
3313	457073.3	3768186	0.001321	6.77E-05	0.00E+00	1.32E-03	6.77E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
3314	457073.4	3768196	0.001273	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
3315	457073.5	3768205	0.001228	6.29E-05	0.00E+00	1.23E-03	6.29E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
3316	457073.5	3768215	0.001183	6.07E-05	0.00E+00	1.18E-03	6.07E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
3317	457073.6	3768224	0.001141	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
3318	457073.7	3768234	0.0011	5.64E-05	0.00E+00	1.10E-03	5.64E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
3319	457050.8	3768023	0.001941	9.95E-05	0.00E+00	1.94E-03	9.95E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.78E-06	0.00E+00
3320	457054.4	3768015	0.002011	1.03E-04	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.02E-04	1.85E-05	0.00E+00	2.28E-04	5.98E-06	0.00E+00
3321	457058	3768006	0.00208	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.23E-04	1.92E-05	0.00E+00	2.36E-04	6.19E-06	0.00E+00
3322	457061.6	3767997	0.00215	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.44E-04	1.98E-05	0.00E+00	2.44E-04	6.40E-06	0.00E+00
3323	457065.2	3767988	0.002219	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.65E-04	2.05E-05	0.00E+00	2.52E-04	6.60E-06	0.00E+00
3324	457068.9	3767979	0.002286	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.85E-04	2.11E-05	0.00E+00	2.59E-04	6.80E-06	0.00E+00
3325	457072.5	3767970	0.002352	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.04E-04	2.17E-05	0.00E+00	2.67E-04	7.00E-06	0.00E+00
3326	457076.1	3767961	0.002417	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.24E-04	2.23E-05	0.00E+00	2.74E-04	7.19E-06	0.00E+00
3327	457079.7	3767952	0.002479	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.81E-04	7.38E-06	0.00E+00
3328	457083.3	3767943	0.002539	1.30E-04	0.00E+00	2.54E-03	1.30E-04	0.00E+00	7.60E-04	2.34E-05	0.00E+00	2.88E-04	7.55E-06	0.00E+00
3329	457087	3767934	0.002595	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.77E-04	2.39E-05	0.00E+00	2.94E-04	7.72E-06	0.00E+00
3330	457090.6	3767926	0.002647	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.93E-04	2.44E-05	0.00E+00	3.00E-04	7.88E-06	0.00E+00
3331	457094.2	3767917	0.002698	1.38E-04	0.00E+00	2.70E-03	1.38E-04	0.00E+00	8.08E-04	2.49E-05	0.00E+00	3.06E-04	8.03E-06	0.00E+00
3332	457097.8	3767908	0.002745	1.41E-04	0.00E+00	2.74E-03	1.41E-04	0.00E+00	8.22E-04	2.53E-05	0.00E+00	3.11E-04	8.17E-06	0.00E+00
3333	457101.4	3767899	0.002788	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.35E-04	2.57E-05	0.00E+00	3.16E-04	8.30E-06	0.00E+00
3334	457105.1	3767890	0.002826	1.45E-04	0.00E+00	2.83E-03	1.45E-04	0.00E+00	8.47E-04	2.61E-05	0.00E+00	3.21E-04	8.41E-06	0.00E+00
3335	457108.7	3767881	0.002861	1.47E-04	0.00E+00	2.86E-03	1.47E-04	0.00E+00	8.57E-04	2.64E-05	0.00E+00	3.25E-04	8.51E-06	0.00E+00
3336	457112.3	3767872	0.002891	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.66E-04	2.66E-05	0.00E+00	3.28E-04	8.60E-06	0.00E+00
3337	457115.9	3767863	0.002916	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.74E-04	2.69E-05	0.00E+00	3.31E-04	8.68E-06	0.00E+00
3338	457119.5	3767854	0.002938	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.80E-04	2.71E-05	0.00E+00	3.33E-04	8.74E-06	0.00E+00
3339	457123.2	3767846	0.002954	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.85E-04	2.72E-05	0.00E+00	3.35E-04	8.79E-06	0.00E+00
3340	457135.6	3767833	0.003054	1.57E-04	0.00E+00	3.05E-03	1.57E-04	0.00E+00	9.15E-04	2.82E-05	0.00E+00	3.46E-04	9.09E-06	0.00E+00
3341	457144.5	3767829	0.00314	1.61E-04	0.00E+00	3.14E-03	1.61E-04	0.00E+00	9.40E-04	2.89E-05	0.00E+00	3.56E-04	9.34E-06	0.00E+00
3342	457153.4	3767826	0.003224	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.66E-04	2.97E-05	0.00E+00	3.66E-04	9.59E-06	0.00E+00
3343	457162.2	3767822	0.003306	1.70E-04	0.00E+00	3.31E-03	1.70E-04	0.00E+00	9.90E-04	3.05E-05	0.00E+00	3.75E-04	9.84E-06	0.00E+00
3344	457171.1	3767818	0.003385	1.74E-04	0.00E+00	3.39E-03	1.74E-04	0.00E+00	1.01E-03	3.12E-05	0.00E+00	3.84E-04	1.01E-05	0.00E+00
3345	457179.9	3767814	0.003461	1.77E-04	0.00E+00	3.46E-03	1.77E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.93E-04	1.03E-05	0.00E+00
3346	457188.8	3767811	0.003533	1.81E-04	0.00E+00	3.53E-03	1.81E-04	0.00E+00	1.06E-03	3.26E-05	0.00E+00	4.01E-04	1.05E-05	0.00E+00
3347	457197.7	3767807	0.0036	1.85E-04	0.00E+00	3.60E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.08E-04	1.07E-05	0.00E+00
3348	457206.5	3767803	0.003662	1.88E-04	0.00E+00	3.66E-03	1.88E-04	0.00E+00	1.10E-03	3.38E-05	0.00E+00	4.16E-04	1.09E-05	0.00E+00
3349	457215.4	3767800	0.003719	1.91E-04	0.00E+00	3.72E-03	1.91E-04	0.00E+00	1.11E-03	3.43E-05	0.00E+00	4.22E-04	1.11E-05	0.00E+00
3350	457224.2	3767796	0.003771	1.93E-04	0.00E+00	3.77E-03	1.93E-04	0.00E+00	1.13E-03	3.48E-05	0.00E+00	4.28E-04	1.12E-05	0.00E+00
3351	457233.1	3767792	0.003816	1.96E-04	0.00E+00	3.82E-03	1.96E-04	0.00E+00	1.14E-03	3.52E-05	0.00E+00	4.33E-04	1.14E-05	0.00E+00
3352	457242	3767789	0.003855	1.98E-04	0.00E+00	3.85E-03	1.98E-04	0.00E+00	1.15E-03	3.55E-05	0.00E+00	4.37E-04	1.15E-05	0.00E+00
3353	457250.8	3767785	0.003887	1.99E-04	0.00E+00	3.89E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.41E-04	1.16E-05	0.00E+00
3354	457259.7	3767781	0.003913	2.01E-04	0.00E+00	3.91E-03	2.01E-04	0.00E+00	1.17E-03	3.61E-05	0.00E+00	4.44E-04	1.16E-05	0.00E+00
3355	457268.5	3767777	0.003931	2.02E-04	0.00E+00	3.93E-03	2.02E-04	0.00E+00	1.18E-03	3.62E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
3356	457277.4	3767774	0.003946	2.02E-04	0.00E+00	3.95E-03	2.02E-04	0.00E+00	1.18E-03	3.64E-05	0.00E+00	4.48E-04	1.17E-05	0.00E+00
3357	457286.3	3767770	0.003952	2.03E-04	0.00E+00	3.95E-03	2.03E-04	0.00E+00	1.18E-03	3.64E-05	0.00E+00	4.48E-04	1.18E-05	0.00E+00

3358	457047.1	3768032	0.001872	9.60E-05	0.00E+00	1.87E-03	9.60E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
3359	457047.2	3768042	0.001833	9.40E-05	0.00E+00	1.83E-03	9.40E-05	0.00E+00	5.49E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
3360	457047.3	3768052	0.001794	9.20E-05	0.00E+00	1.79E-03	9.20E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.04E-04	5.34E-06	0.00E+00
3361	457047.4	3768061	0.001753	8.99E-05	0.00E+00	1.75E-03	8.99E-05	0.00E+00	5.25E-04	1.62E-05	0.00E+00	1.99E-04	5.22E-06	0.00E+00
3362	457047.4	3768071	0.001711	8.77E-05	0.00E+00	1.71E-03	8.77E-05	0.00E+00	5.13E-04	1.58E-05	0.00E+00	1.94E-04	5.09E-06	0.00E+00
3363	457047.5	3768080	0.001668	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	5.00E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
3364	457047.6	3768090	0.001624	8.33E-05	0.00E+00	1.62E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
3365	457047.7	3768100	0.00158	8.10E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
3366	457047.7	3768109	0.001535	7.87E-05	0.00E+00	1.54E-03	7.87E-05	0.00E+00	4.60E-04	1.42E-05	0.00E+00	1.74E-04	4.57E-06	0.00E+00
3367	457047.8	3768119	0.00149	7.64E-05	0.00E+00	1.49E-03	7.64E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
3368	457047.9	3768128	0.001445	7.41E-05	0.00E+00	1.44E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
3369	457048	3768138	0.0014	7.18E-05	0.00E+00	1.40E-03	7.18E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
3370	457048	3768148	0.001356	6.95E-05	0.00E+00	1.36E-03	6.95E-05	0.00E+00	4.06E-04	1.25E-05	0.00E+00	1.54E-04	4.03E-06	0.00E+00
3371	457048.1	3768157	0.001313	6.73E-05	0.00E+00	1.31E-03	6.73E-05	0.00E+00	3.93E-04	1.21E-05	0.00E+00	1.49E-04	3.91E-06	0.00E+00
3372	457048.2	3768167	0.00127	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
3373	457048.3	3768177	0.001228	6.30E-05	0.00E+00	1.23E-03	6.30E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
3374	457048.3	3768186	0.001187	6.09E-05	0.00E+00	1.19E-03	6.09E-05	0.00E+00	3.56E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00
3375	457048.4	3768196	0.001147	5.88E-05	0.00E+00	1.15E-03	5.88E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
3376	457048.5	3768205	0.001109	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
3377	457048.5	3768215	0.001071	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.87E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
3378	457048.6	3768225	0.001035	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.54E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
3379	457048.7	3768234	0.001	5.13E-05	0.00E+00	1.00E-03	5.13E-05	0.00E+00	3.00E-04	9.22E-06	0.00E+00	1.13E-04	2.98E-06	0.00E+00
3380	457025.8	3768024	0.001719	8.81E-05	0.00E+00	1.72E-03	8.81E-05	0.00E+00	5.15E-04	1.58E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
3381	457029.4	3768015	0.001779	9.12E-05	0.00E+00	1.78E-03	9.12E-05	0.00E+00	5.33E-04	1.64E-05	0.00E+00	2.02E-04	5.29E-06	0.00E+00
3382	457033	3768006	0.001838	9.42E-05	0.00E+00	1.84E-03	9.42E-05	0.00E+00	5.51E-04	1.69E-05	0.00E+00	2.09E-04	5.47E-06	0.00E+00
3383	457036.6	3767997	0.001898	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
3384	457040.2	3767988	0.001958	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.86E-04	1.80E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
3385	457043.9	3767979	0.002018	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.00E-06	0.00E+00
3386	457047.5	3767970	0.002077	1.06E-04	0.00E+00	2.08E-03	1.06E-04	0.00E+00	6.22E-04	1.91E-05	0.00E+00	2.36E-04	6.18E-06	0.00E+00
3387	457051.1	3767961	0.002134	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.39E-04	1.97E-05	0.00E+00	2.42E-04	6.35E-06	0.00E+00
3388	457054.7	3767952	0.00219	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.56E-04	2.02E-05	0.00E+00	2.48E-04	6.52E-06	0.00E+00
3389	457058.3	3767944	0.002245	1.15E-04	0.00E+00	2.25E-03	1.15E-04	0.00E+00	6.73E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
3390	457062	3767935	0.002299	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.88E-04	2.12E-05	0.00E+00	2.61E-04	6.84E-06	0.00E+00
3391	457065.6	3767926	0.00235	1.20E-04	0.00E+00	2.35E-03	1.20E-04	0.00E+00	7.04E-04	2.17E-05	0.00E+00	2.67E-04	6.99E-06	0.00E+00
3392	457069.2	3767917	0.002398	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.18E-04	2.21E-05	0.00E+00	2.72E-04	7.14E-06	0.00E+00
3393	457072.8	3767908	0.002445	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.27E-06	0.00E+00
3394	457076.4	3767899	0.002488	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.45E-04	2.29E-05	0.00E+00	2.82E-04	7.40E-06	0.00E+00
3395	457080.1	3767890	0.002528	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.57E-04	2.33E-05	0.00E+00	2.87E-04	7.52E-06	0.00E+00
3396	457083.7	3767881	0.002564	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.68E-04	2.36E-05	0.00E+00	2.91E-04	7.63E-06	0.00E+00
3397	457087.3	3767872	0.002598	1.33E-04	0.00E+00	2.60E-03	1.33E-04	0.00E+00	7.78E-04	2.39E-05	0.00E+00	2.95E-04	7.73E-06	0.00E+00
3398	457090.9	3767864	0.002627	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.87E-04	2.42E-05	0.00E+00	2.98E-04	7.82E-06	0.00E+00
3399	457094.5	3767855	0.002652	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.94E-04	2.44E-05	0.00E+00	3.01E-04	7.89E-06	0.00E+00
3400	457098.2	3767846	0.002673	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	8.01E-04	2.46E-05	0.00E+00	3.03E-04	7.96E-06	0.00E+00
3401	457101.8	3767837	0.002692	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.06E-04	2.48E-05	0.00E+00	3.05E-04	8.01E-06	0.00E+00
3402	457105.4	3767828	0.002707	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.11E-04	2.50E-05	0.00E+00	3.07E-04	8.05E-06	0.00E+00
3403	457117.9	3767815	0.002795	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.37E-04	2.58E-05	0.00E+00	3.17E-04	8.32E-06	0.00E+00
3404	457126.7	3767812	0.002871	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.54E-06	0.00E+00
3405	457135.6	3767808	0.002947	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.83E-04	2.72E-05	0.00E+00	3.34E-04	8.77E-06	0.00E+00
3406	457144.5	3767804	0.003021	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.05E-04	2.78E-05	0.00E+00	3.43E-04	8.99E-06	0.00E+00
3407	457153.3	3767801	0.003092	1.58E-04	0.00E+00	3.09E-03	1.58E-04	0.00E+00	9.26E-04	2.85E-05	0.00E+00	3.51E-04	9.20E-06	0.00E+00
3408	457162.2	3767797	0.003159	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.46E-04	2.91E-05	0.00E+00	3.58E-04	9.40E-06	0.00E+00
3409	457171	3767793	0.003225	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.66E-04	2.97E-05	0.00E+00	3.66E-04	9.60E-06	0.00E+00
3410	457179.9	3767789	0.003287	1.69E-04	0.00E+00	3.29E-03	1.69E-04	0.00E+00	9.84E-04	3.03E-05	0.00E+00	3.73E-04	9.78E-06	0.00E+00
3411	457188.8	3767786	0.003345	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	1.00E-03	3.08E-05	0.00E+00	3.79E-04	9.95E-06	0.00E+00
3412	457197.6	3767782	0.003398	1.74E-04	0.00E+00	3.40E-03	1.74E-04	0.00E+00	1.02E-03	3.13E-05	0.00E+00	3.86E-04	1.01E-05	0.00E+00
3413	457206.5	3767778	0.003447	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.91E-04	1.03E-05	0.00E+00
3414	457215.3	3767775	0.003491	1.79E-04	0.00E+00	3.49E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.96E-04	1.04E-05	0.00E+00
3415	457224.2	3767771	0.003529	1.81E-04	0.00E+00	3.53E-03	1.81E-04	0.00E+00	1.06E-03	3.25E-05	0.00E+00	4.00E-04	1.05E-05	0.00E+00
3416	457233.1	3767767	0.003562	1.83E-04	0.00E+00	3.56E-03	1.83E-04	0.00E+00	1.07E-03	3.28E-05	0.00E+00	4.04E-04	1.06E-05	0.00E+00
3417	457241.9	3767764	0.00359	1.84E-04	0.00E+00	3.59E-03	1.84E-04	0.00E+00	1.08E-03	3.31E-05	0.00E+00	4.07E-04	1.07E-05	0.00E+00
3418	457250.8	3767760	0.003612	1.85E-04	0.00E+00	3.61E-03	1.85E-04	0.00E+00	1.08E-03	3.33E-05	0.00E+00	4.10E-04	1.07E-05	0.00E+00
3419	457259.6	3767756	0.003628	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
3420	457268.5	3767752	0.003638	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
3421	457277.4	3767749	0.003643	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.36E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
3422	457286.2	3767745	0.003641	1.87E-04	0.00E+00	3.64E-03	1.87E-04	0.00E+00	1.09E-03	3.36E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
3423	457022.1	3768032	0.00166	8.51E-05	0.00E+00	1.66E-03	8.51E-05	0.00E+00	4.97E-04	1.53E-05	0.00E+00	1.88E-04	4.94E-06	0.00E+00
3424	457022.2	3768042	0.001626	8.33E-05	0.00E+00	1.63E-03	8.33E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.84E-04	4.84E-06	0.00E+00
3425	457022.3	3768052	0.001591	8.16E-05	0.00E+00	1.59E-03	8.16E-05	0.00E+00	4.76E-04	1.47E-05	0.00E+00	1.80E-04	4.73E-06	0.00E+00
3426	457022.4	3768061	0.001555	7.97E-05	0.00E+00	1.56E-03	7.97E-05	0.00E+00	4.66E-04	1.43E-05	0.00E+00	1.76E-04	4.63E-06	0.00E+00
3427	457022.4	3768071	0.001518	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
3428	457022.5	3768081	0.001481	7.59E-05	0.00E+00	1.48E-03	7.59E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
3429	457022.6	3768090	0.001444	7.41E-05	0.00E+00	1.44E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
3430	457022.7	3768100	0.001407	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.21E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
3431	457022.7	3768109	0.001369	7.02E-05	0.00E+00	1.37E-03	7.02E-05	0.00E+00	4.10E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
3432	457022.8	3768119	0.001331	6.82E-05	0.00E+00	1.33E-03	6.82E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.96E-06	0.00E+00
3433	457022.9	3768129	0.001293	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.87E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
3434	457023	3768138	0.001255	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.76E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
3435	457023	3768148	0.001217	6.24E-05	0.00E+00	1.22E-03	6.24E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
3436	457023.1	3768158	0.00118	6.05E-05	0.00E+00	1.18E-03	6.05E-05	0.00E+00	3.53E-04	1.09E-05	0.00E+00	1.34E-04	3.51E-06	0.00E+00
3437	457023.2	3768167	0.001144	5.86E-05	0.00E+00	1.14E-03	5.86E-05	0.00E+00	3.43E-04	1.05E-05	0.00E+00	1.30E-04	3.40E-06	0.00E+00
3438	457023.3	3768177	0.001109	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
3439	457023.3	3768186	0.001074	5.51E-05	0.00E+00	1.07E-03	5.51E-05	0.00E+00	3.22E-04	9.90E-06	0.00E+00	1.22E-04	3.20E-06	0.00E+00
3440	457023.4	3768196	0.001041	5.34E-05	0.00E+00	1.04E-03	5.34E-05	0.00E+00	3.12E-04	9.59E-06	0.00E+00	1.18E-04	3.10E-06	0.00E+00
3441	457023.5	3768206	0.001008	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
3442	457023.5	3768215	0.000976	5.00E-05	0.00E+00	9.76E-04	5.00E-05	0.00E+00	2.92E-04	9.00E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
3443	457023.6	3768225	0.000945	4.85E-05	0.00E+00	9.45E-04	4.85E-05	0.00E+00	2.83E-04	8.71E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
3444	457023.7	3768234	0.000915	4.69E-05	0.00E+00	9.15E-04	4.69E-05	0.00E+00	2.74E-04	8.44E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
3445	457000.8	3768024	0.001534	7.87E-05	0.00E+00	1.53E-03	7.87E-05	0.00E+00	4.60E-04	1.41E-05	0.00E+00	1.74E-04	4.57E-06	0.00E+00
3446	457004.4	3768015	0.001586	8.13E-05	0.00E+00	1.59E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
3447	457008	3768006	0.001638	8.40E-05	0.00E+00	1.64E-03	8.40E-05	0.00E+00	4.91E-04	1.51E-05	0.00E+00	1.86E-04	4.87E-06	0.00E+00
3448	457011.6	3767997	0.00169	8.66E-05	0.00E+00	1.69E-03	8.66E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
3449	457015.2	3767988	0.001741	8.93E-05	0.00E+00	1.74E-03	8.93E-05	0.00E+00	5.22E-04	1.61E-05	0.00E+00	1.98E-04	5.18E-06	0.00E+00
3450	457018.9	3767979	0.001794	9.20E-05	0.00E+00	1.79E-03	9.20E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.04E-04	5.34E-06	0.00E+00
3451	457022.5	3767970	0.001846	9.46E-05	0.00E+00	1.85E-03	9.46E-05	0.00E+00	5.53E-04	1.70E-05	0.00E+00	2.09E-04	5.49E-06	0.00E+00
3452	457026.1	3767962	0.001898	9.73E-05	0.00E+00	1.90E-03	9.73E-05	0.00E+00	5.68E-04	1.75E-05	0.00E+00	2.15E-04	5.65E-06	0.00E+00
3453	457029.7	3767953	0.001949	9.99E-05	0.00E+00	1.95E-03	9.99E-05	0.00E+00	5.84E-04	1.80E-05	0.00E+00	2.21E-04	5.80E-06	0.00E+00

3454	457033.3	3767944	0.001999	1.02E-04	0.00E+00	2.00E-03	1.02E-04	0.00E+00	5.99E-04	1.84E-05	0.00E+00	2.27E-04	5.95E-06	0.00E+00
3455	457037	3767935	0.002048	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.13E-04	1.89E-05	0.00E+00	2.32E-04	6.09E-06	0.00E+00
3456	457040.6	3767926	0.002096	1.07E-04	0.00E+00	2.10E-03	1.07E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
3457	457044.2	3767917	0.002141	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.41E-04	1.97E-05	0.00E+00	2.43E-04	6.37E-06	0.00E+00
3458	457047.8	3767908	0.002185	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.54E-04	2.01E-05	0.00E+00	2.48E-04	6.50E-06	0.00E+00
3459	457051.4	3767899	0.002227	1.14E-04	0.00E+00	2.23E-03	1.14E-04	0.00E+00	6.67E-04	2.05E-05	0.00E+00	2.53E-04	6.63E-06	0.00E+00
3460	457055.1	3767890	0.002266	1.16E-04	0.00E+00	2.27E-03	1.16E-04	0.00E+00	6.79E-04	2.09E-05	0.00E+00	2.57E-04	6.74E-06	0.00E+00
3461	457058.7	3767881	0.002303	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
3462	457062.3	3767873	0.002338	1.20E-04	0.00E+00	2.34E-03	1.20E-04	0.00E+00	7.00E-04	2.16E-05	0.00E+00	2.65E-04	6.96E-06	0.00E+00
3463	457065.9	3767864	0.002369	1.21E-04	0.00E+00	2.37E-03	1.21E-04	0.00E+00	7.10E-04	2.18E-05	0.00E+00	2.69E-04	7.05E-06	0.00E+00
3464	457069.5	3767855	0.002397	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.18E-04	2.21E-05	0.00E+00	2.72E-04	7.13E-06	0.00E+00
3465	457073.2	3767846	0.002421	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.25E-04	2.23E-05	0.00E+00	2.75E-04	7.20E-06	0.00E+00
3466	457076.8	3767837	0.002443	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.27E-06	0.00E+00
3467	457080.4	3767828	0.002462	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.38E-04	2.27E-05	0.00E+00	2.79E-04	7.33E-06	0.00E+00
3468	457084	3767819	0.002479	1.27E-04	0.00E+00	2.48E-03	1.27E-04	0.00E+00	7.43E-04	2.29E-05	0.00E+00	2.81E-04	7.38E-06	0.00E+00
3469	457087.6	3767810	0.002493	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.47E-04	2.30E-05	0.00E+00	2.83E-04	7.42E-06	0.00E+00
3470	457100.1	3767798	0.002572	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.70E-04	2.37E-05	0.00E+00	2.92E-04	7.65E-06	0.00E+00
3471	457109	3767794	0.002639	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.90E-04	2.43E-05	0.00E+00	2.99E-04	7.85E-06	0.00E+00
3472	457117.8	3767790	0.002705	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.10E-04	2.49E-05	0.00E+00	3.07E-04	8.05E-06	0.00E+00
3473	457126.7	3767787	0.00277	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.30E-04	2.55E-05	0.00E+00	3.14E-04	8.24E-06	0.00E+00
3474	457135.6	3767783	0.002834	1.45E-04	0.00E+00	2.83E-03	1.45E-04	0.00E+00	8.49E-04	2.61E-05	0.00E+00	3.21E-04	8.43E-06	0.00E+00
3475	457144.4	3767779	0.002894	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
3476	457153.3	3767776	0.002953	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.84E-04	2.72E-05	0.00E+00	3.35E-04	8.79E-06	0.00E+00
3477	457162.1	3767772	0.003011	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.02E-04	2.78E-05	0.00E+00	3.42E-04	8.96E-06	0.00E+00
3478	457171	3767768	0.003066	1.57E-04	0.00E+00	3.07E-03	1.57E-04	0.00E+00	9.18E-04	2.83E-05	0.00E+00	3.48E-04	9.12E-06	0.00E+00
3479	457179.9	3767764	0.003117	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.34E-04	2.87E-05	0.00E+00	3.54E-04	9.28E-06	0.00E+00
3480	457188.7	3767761	0.003163	1.62E-04	0.00E+00	3.16E-03	1.62E-04	0.00E+00	9.47E-04	2.92E-05	0.00E+00	3.59E-04	9.41E-06	0.00E+00
3481	457197.6	3767757	0.003205	1.64E-04	0.00E+00	3.21E-03	1.64E-04	0.00E+00	9.60E-04	2.95E-05	0.00E+00	3.64E-04	9.54E-06	0.00E+00
3482	457206.4	3767753	0.003243	1.66E-04	0.00E+00	3.24E-03	1.66E-04	0.00E+00	9.71E-04	2.99E-05	0.00E+00	3.68E-04	9.65E-06	0.00E+00
3483	457215.3	3767750	0.003276	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.81E-04	3.02E-05	0.00E+00	3.72E-04	9.75E-06	0.00E+00
3484	457224.2	3767746	0.003304	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.90E-04	3.05E-05	0.00E+00	3.75E-04	9.83E-06	0.00E+00
3485	457233	3767742	0.003328	1.71E-04	0.00E+00	3.33E-03	1.71E-04	0.00E+00	9.97E-04	3.07E-05	0.00E+00	3.78E-04	9.90E-06	0.00E+00
3486	457241.9	3767739	0.003347	1.72E-04	0.00E+00	3.35E-03	1.72E-04	0.00E+00	1.00E-03	3.09E-05	0.00E+00	3.80E-04	9.96E-06	0.00E+00
3487	457250.7	3767735	0.003361	1.72E-04	0.00E+00	3.36E-03	1.72E-04	0.00E+00	1.01E-03	3.10E-05	0.00E+00	3.81E-04	1.00E-05	0.00E+00
3488	457259.6	3767731	0.00337	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.82E-04	1.00E-05	0.00E+00
3489	457268.5	3767727	0.003373	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.00E-05	0.00E+00
3490	457277.3	3767724	0.003372	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.11E-05	0.00E+00	3.83E-04	1.00E-05	0.00E+00
3491	457286.2	3767720	0.003366	1.73E-04	0.00E+00	3.37E-03	1.73E-04	0.00E+00	1.01E-03	3.10E-05	0.00E+00	3.82E-04	1.00E-05	0.00E+00
3492	456997.1	3768033	0.001483	7.60E-05	0.00E+00	1.48E-03	7.60E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
3493	456997.2	3768042	0.001453	7.45E-05	0.00E+00	1.45E-03	7.45E-05	0.00E+00	4.35E-04	1.34E-05	0.00E+00	1.65E-04	4.32E-06	0.00E+00
3494	456997.3	3768052	0.001423	7.29E-05	0.00E+00	1.42E-03	7.29E-05	0.00E+00	4.26E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
3495	456997.4	3768062	0.001391	7.13E-05	0.00E+00	1.39E-03	7.13E-05	0.00E+00	4.17E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
3496	456997.4	3768071	0.001359	6.97E-05	0.00E+00	1.36E-03	6.97E-05	0.00E+00	4.07E-04	1.25E-05	0.00E+00	1.54E-04	4.05E-06	0.00E+00
3497	456997.5	3768081	0.001327	6.81E-05	0.00E+00	1.33E-03	6.81E-05	0.00E+00	3.98E-04	1.22E-05	0.00E+00	1.51E-04	3.95E-06	0.00E+00
3498	456997.6	3768090	0.001296	6.64E-05	0.00E+00	1.30E-03	6.64E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
3499	456997.7	3768100	0.001263	6.48E-05	0.00E+00	1.26E-03	6.48E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.76E-06	0.00E+00
3500	456997.7	3768110	0.001231	6.31E-05	0.00E+00	1.23E-03	6.31E-05	0.00E+00	3.69E-04	1.13E-05	0.00E+00	1.40E-04	3.66E-06	0.00E+00
3501	456997.8	3768119	0.001198	6.14E-05	0.00E+00	1.20E-03	6.14E-05	0.00E+00	3.59E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
3502	456997.9	3768129	0.001165	5.97E-05	0.00E+00	1.17E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
3503	456998	3768138	0.001133	5.81E-05	0.00E+00	1.13E-03	5.81E-05	0.00E+00	3.39E-04	1.04E-05	0.00E+00	1.29E-04	3.37E-06	0.00E+00
3504	456998	3768148	0.001101	5.64E-05	0.00E+00	1.10E-03	5.64E-05	0.00E+00	3.30E-04	1.01E-05	0.00E+00	1.25E-04	3.28E-06	0.00E+00
3505	456998.1	3768158	0.001069	5.48E-05	0.00E+00	1.07E-03	5.48E-05	0.00E+00	3.20E-04	9.86E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
3506	456998.2	3768167	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
3507	456998.3	3768177	0.001008	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.29E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
3508	456998.3	3768187	0.000978	5.01E-05	0.00E+00	9.78E-04	5.01E-05	0.00E+00	2.93E-04	9.02E-06	0.00E+00	1.11E-04	2.91E-06	0.00E+00
3509	456998.4	3768196	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
3510	456998.5	3768206	0.000921	4.72E-05	0.00E+00	9.21E-04	4.72E-05	0.00E+00	2.76E-04	8.49E-06	0.00E+00	1.05E-04	2.74E-06	0.00E+00
3511	456998.5	3768215	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
3512	456998.6	3768225	0.000867	4.45E-05	0.00E+00	8.67E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.84E-05	2.58E-06	0.00E+00
3513	456998.7	3768235	0.000842	4.31E-05	0.00E+00	8.42E-04	4.31E-05	0.00E+00	2.52E-04	7.76E-06	0.00E+00	9.55E-05	2.50E-06	0.00E+00
3514	456975.8	3768024	0.001377	7.06E-05	0.00E+00	1.38E-03	7.06E-05	0.00E+00	4.13E-04	1.27E-05	0.00E+00	1.56E-04	4.10E-06	0.00E+00
3515	456979.4	3768015	0.001422	7.29E-05	0.00E+00	1.42E-03	7.29E-05	0.00E+00	4.26E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
3516	456983	3768006	0.001468	7.53E-05	0.00E+00	1.47E-03	7.53E-05	0.00E+00	4.40E-04	1.35E-05	0.00E+00	1.67E-04	4.37E-06	0.00E+00
3517	456986.6	3767997	0.001514	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
3518	456990.2	3767988	0.00156	8.00E-05	0.00E+00	1.56E-03	8.00E-05	0.00E+00	4.67E-04	1.44E-05	0.00E+00	1.77E-04	4.64E-06	0.00E+00
3519	456993.9	3767980	0.001606	8.23E-05	0.00E+00	1.61E-03	8.23E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
3520	456997.5	3767971	0.001653	8.47E-05	0.00E+00	1.65E-03	8.47E-05	0.00E+00	4.95E-04	1.52E-05	0.00E+00	1.87E-04	4.92E-06	0.00E+00
3521	457001.1	3767962	0.001699	8.71E-05	0.00E+00	1.70E-03	8.71E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.05E-06	0.00E+00
3522	457004.7	3767953	0.001745	8.94E-05	0.00E+00	1.74E-03	8.94E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.19E-06	0.00E+00
3523	457008.3	3767944	0.00179	9.18E-05	0.00E+00	1.79E-03	9.18E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
3524	457012	3767935	0.001834	9.40E-05	0.00E+00	1.83E-03	9.40E-05	0.00E+00	5.49E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
3525	457015.6	3767926	0.001878	9.63E-05	0.00E+00	1.88E-03	9.63E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
3526	457019.2	3767917	0.00192	9.84E-05	0.00E+00	1.92E-03	9.84E-05	0.00E+00	5.75E-04	1.77E-05	0.00E+00	2.18E-04	5.71E-06	0.00E+00
3527	457022.8	3767908	0.001961	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
3528	457026.4	3767899	0.002	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	5.99E-04	1.84E-05	0.00E+00	2.27E-04	5.95E-06	0.00E+00
3529	457030.1	3767891	0.002038	1.04E-04	0.00E+00	2.04E-03	1.04E-04	0.00E+00	6.10E-04	1.88E-05	0.00E+00	2.31E-04	6.06E-06	0.00E+00
3530	457033.7	3767882	0.002073	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.21E-04	1.91E-05	0.00E+00	2.35E-04	6.17E-06	0.00E+00
3531	457037.3	3767873	0.002106	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.31E-04	1.94E-05	0.00E+00	2.39E-04	6.27E-06	0.00E+00
3532	457040.9	3767864	0.002138	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.40E-04	1.97E-05	0.00E+00	2.43E-04	6.36E-06	0.00E+00
3533	457044.5	3767855	0.002168	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.49E-04	2.00E-05	0.00E+00	2.46E-04	6.45E-06	0.00E+00
3534	457048.2	3767846	0.002195	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.57E-04	2.02E-05	0.00E+00	2.49E-04	6.53E-06	0.00E+00
3535	457051.8	3767837	0.002219	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.65E-04	2.05E-05	0.00E+00	2.52E-04	6.60E-06	0.00E+00
3536	457055.4	3767828	0.002242	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.54E-04	6.67E-06	0.00E+00
3537	457059	3767819	0.002262	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.78E-04	2.09E-05	0.00E+00	2.57E-04	6.73E-06	0.00E+00
3538	457062.6	3767811	0.00228	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.83E-04	2.10E-05	0.00E+00	2.59E-04	6.79E-06	0.00E+00
3539	457066.3	3767802	0.002296	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.88E-04	2.12E-05	0.00E+00	2.60E-04	6.83E-06	0.00E+00
3540	457069.9	3767793	0.002308	1.18E-04	0.00E+00	2.31E-03	1.18E-04	0.00E+00	6.91E-04	2.13E-05	0.00E+00	2.62E-04	6.87E-06	0.00E+00
3541	457082.4	3767780	0.002379	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.12E-04	2.19E-05	0.00E+00	2.70E-04	7.08E-06	0.00E+00
3542	457091.2	3767776	0.002438	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.30E-04	2.25E-05	0.00E+00	2.77E-04	7.26E-06	0.00E+00
3543	457100.1	3767773	0.002497	1.28E-04	0.00E+00	2.50E-03	1.28E-04	0.00E+00	7.48E-04	2.30E-05	0.00E+00	2.83E-04	7.43E-06	0.00E+00
3544	457108.9	3767769	0.002555	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.65E-04	2.36E-05	0.00E+00	2.90E-04	7.60E-06	0.00E+00
3545	457117.8	3767765	0.002612	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.82E-04	2.41E-05	0.00E+00	2.96E-04	7.77E-06	0.00E+00
3546	457126.7	3767762	0.002667	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	7.99E-04	2.46E-05	0.00E+00	3.03E-04	7.94E-06	0.00E+00
3547	457135.5	3767758	0.00272	1.39E-04	0.00E+00	2.72E-03	1.39E-04	0.00E+00	8.15E-04	2.51E-05	0.00E+00	3.09E-04	8.09E-06	0.00E+00
3548	457144.4	3767754	0.002771	1.42E-04	0.00E+00	2.77E-03	1.42E-04	0.00E+00	8.30E-04	2.55E-05	0.00E+00	3.14E-04	8.25E-06	0.00E+00
3549	457153.2	3767751	0.00282	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.45E-04	2.60E-05	0.00E+00	3.20E-04	8.39E-06	0.00E+00

3550	457162.1	3767747	0.002868	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.59E-04	2.64E-05	0.00E+00	3.25E-04	8.53E-06	0.00E+00
3551	457171	3767743	0.002912	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.72E-04	2.68E-05	0.00E+00	3.30E-04	8.67E-06	0.00E+00
3552	457179.8	3767739	0.002954	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.85E-04	2.72E-05	0.00E+00	3.35E-04	8.79E-06	0.00E+00
3553	457188.7	3767736	0.00299	1.53E-04	0.00E+00	2.99E-03	1.53E-04	0.00E+00	8.95E-04	2.76E-05	0.00E+00	3.39E-04	8.90E-06	0.00E+00
3554	457197.5	3767732	0.003022	1.55E-04	0.00E+00	3.02E-03	1.55E-04	0.00E+00	9.05E-04	2.79E-05	0.00E+00	3.43E-04	8.99E-06	0.00E+00
3555	457206.4	3767728	0.003051	1.56E-04	0.00E+00	3.05E-03	1.56E-04	0.00E+00	9.14E-04	2.81E-05	0.00E+00	3.46E-04	9.08E-06	0.00E+00
3556	457215.3	3767725	0.003076	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.21E-04	2.84E-05	0.00E+00	3.49E-04	9.15E-06	0.00E+00
3557	457224.1	3767721	0.003096	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.27E-04	2.85E-05	0.00E+00	3.51E-04	9.21E-06	0.00E+00
3558	457233	3767717	0.003112	1.60E-04	0.00E+00	3.11E-03	1.60E-04	0.00E+00	9.32E-04	2.87E-05	0.00E+00	3.53E-04	9.26E-06	0.00E+00
3559	457241.8	3767714	0.003124	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.36E-04	2.88E-05	0.00E+00	3.54E-04	9.30E-06	0.00E+00
3560	457250.7	3767710	0.003132	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.38E-04	2.89E-05	0.00E+00	3.55E-04	9.32E-06	0.00E+00
3561	457259.6	3767706	0.003135	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.39E-04	2.89E-05	0.00E+00	3.56E-04	9.33E-06	0.00E+00
3562	457268.4	3767702	0.003134	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.39E-04	2.89E-05	0.00E+00	3.56E-04	9.32E-06	0.00E+00
3563	457277.3	3767699	0.003128	1.60E-04	0.00E+00	3.13E-03	1.60E-04	0.00E+00	9.37E-04	2.88E-05	0.00E+00	3.55E-04	9.31E-06	0.00E+00
3564	457286.1	3767695	0.003118	1.60E-04	0.00E+00	3.12E-03	1.60E-04	0.00E+00	9.34E-04	2.87E-05	0.00E+00	3.54E-04	9.28E-06	0.00E+00
3565	456972.1	3768033	0.001333	6.84E-05	0.00E+00	1.33E-03	6.84E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
3566	456972.2	3768042	0.001308	6.70E-05	0.00E+00	1.31E-03	6.70E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.48E-04	3.89E-06	0.00E+00
3567	456972.3	3768052	0.001281	6.57E-05	0.00E+00	1.28E-03	6.57E-05	0.00E+00	3.84E-04	1.18E-05	0.00E+00	1.45E-04	3.81E-06	0.00E+00
3568	456972.4	3768062	0.001254	6.43E-05	0.00E+00	1.25E-03	6.43E-05	0.00E+00	3.75E-04	1.16E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
3569	456972.4	3768071	0.001226	6.28E-05	0.00E+00	1.23E-03	6.28E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
3570	456972.5	3768081	0.001198	6.14E-05	0.00E+00	1.20E-03	6.14E-05	0.00E+00	3.59E-04	1.10E-05	0.00E+00	1.36E-04	3.56E-06	0.00E+00
3571	456972.6	3768091	0.001169	6.00E-05	0.00E+00	1.17E-03	6.00E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
3572	456972.7	3768100	0.001141	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.29E-04	3.40E-06	0.00E+00
3573	456972.7	3768110	0.001113	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.33E-04	1.03E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
3574	456972.8	3768119	0.001085	5.56E-05	0.00E+00	1.09E-03	5.56E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
3575	456972.9	3768129	0.001057	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.75E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
3576	456973	3768139	0.00103	5.28E-05	0.00E+00	1.03E-03	5.28E-05	0.00E+00	3.08E-04	9.49E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
3577	456973	3768148	0.001002	5.14E-05	0.00E+00	1.00E-03	5.14E-05	0.00E+00	3.00E-04	9.24E-06	0.00E+00	1.14E-04	2.98E-06	0.00E+00
3578	456973.1	3768158	0.000975	5.00E-05	0.00E+00	9.75E-04	5.00E-05	0.00E+00	2.92E-04	8.99E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
3579	456973.2	3768168	0.000948	4.86E-05	0.00E+00	9.48E-04	4.86E-05	0.00E+00	2.84E-04	8.74E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
3580	456973.3	3768177	0.000922	4.73E-05	0.00E+00	9.22E-04	4.73E-05	0.00E+00	2.76E-04	8.50E-06	0.00E+00	1.05E-04	2.74E-06	0.00E+00
3581	456973.3	3768187	0.000896	4.59E-05	0.00E+00	8.96E-04	4.59E-05	0.00E+00	2.68E-04	8.26E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
3582	456973.4	3768196	0.000871	4.46E-05	0.00E+00	8.71E-04	4.46E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
3583	456973.5	3768206	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.80E-06	0.00E+00	9.60E-05	2.52E-06	0.00E+00
3584	456973.5	3768216	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.46E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
3585	456973.6	3768225	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.37E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
3586	456973.7	3768235	0.000777	3.99E-05	0.00E+00	7.77E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.82E-05	2.31E-06	0.00E+00
3587	456950.8	3768024	0.001245	6.38E-05	0.00E+00	1.24E-03	6.38E-05	0.00E+00	3.73E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
3588	456954.4	3768015	0.001284	6.58E-05	0.00E+00	1.28E-03	6.58E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
3589	456958	3768006	0.001324	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
3590	456961.6	3767997	0.001365	7.00E-05	0.00E+00	1.36E-03	7.00E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
3591	456965.2	3767989	0.001406	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.21E-04	1.30E-05	0.00E+00	1.59E-04	4.18E-06	0.00E+00
3592	456968.9	3767980	0.001447	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
3593	456972.5	3767971	0.001488	7.63E-05	0.00E+00	1.49E-03	7.63E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
3594	456976.1	3767962	0.001529	7.84E-05	0.00E+00	1.53E-03	7.84E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.73E-04	4.55E-06	0.00E+00
3595	456979.7	3767953	0.00157	8.05E-05	0.00E+00	1.57E-03	8.05E-05	0.00E+00	4.70E-04	1.45E-05	0.00E+00	1.78E-04	4.67E-06	0.00E+00
3596	456983.3	3767944	0.00161	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00
3597	456987	3767935	0.00165	8.46E-05	0.00E+00	1.65E-03	8.46E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.91E-06	0.00E+00
3598	456990.6	3767926	0.001689	8.66E-05	0.00E+00	1.69E-03	8.66E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
3599	456994.2	3767917	0.001728	8.86E-05	0.00E+00	1.73E-03	8.86E-05	0.00E+00	5.18E-04	1.59E-05	0.00E+00	1.96E-04	5.14E-06	0.00E+00
3600	456997.8	3767909	0.001765	9.05E-05	0.00E+00	1.77E-03	9.05E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
3601	457001.4	3767900	0.001801	9.23E-05	0.00E+00	1.80E-03	9.23E-05	0.00E+00	5.39E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
3602	457005.1	3767891	0.001837	9.42E-05	0.00E+00	1.84E-03	9.42E-05	0.00E+00	5.50E-04	1.69E-05	0.00E+00	2.08E-04	5.47E-06	0.00E+00
3603	457008.7	3767882	0.001871	9.59E-05	0.00E+00	1.87E-03	9.59E-05	0.00E+00	5.61E-04	1.73E-05	0.00E+00	2.12E-04	5.57E-06	0.00E+00
3604	457012.3	3767873	0.001904	9.76E-05	0.00E+00	1.90E-03	9.76E-05	0.00E+00	5.70E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
3605	457015.9	3767864	0.001935	9.92E-05	0.00E+00	1.94E-03	9.92E-05	0.00E+00	5.80E-04	1.78E-05	0.00E+00	2.20E-04	5.76E-06	0.00E+00
3606	457019.5	3767855	0.001965	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.89E-04	1.81E-05	0.00E+00	2.23E-04	5.85E-06	0.00E+00
3607	457023.2	3767846	0.001993	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
3608	457026.8	3767837	0.002019	1.04E-04	0.00E+00	2.02E-03	1.04E-04	0.00E+00	6.05E-04	1.86E-05	0.00E+00	2.29E-04	6.01E-06	0.00E+00
3609	457030.4	3767829	0.002043	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
3610	457034	3767820	0.002065	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.19E-04	1.90E-05	0.00E+00	2.34E-04	6.15E-06	0.00E+00
3611	457037.6	3767811	0.002086	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.25E-04	1.92E-05	0.00E+00	2.37E-04	6.21E-06	0.00E+00
3612	457041.3	3767802	0.002103	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.30E-04	1.94E-05	0.00E+00	2.39E-04	6.26E-06	0.00E+00
3613	457044.9	3767793	0.002118	1.09E-04	0.00E+00	2.12E-03	1.09E-04	0.00E+00	6.34E-04	1.95E-05	0.00E+00	2.40E-04	6.30E-06	0.00E+00
3614	457048.5	3767784	0.002132	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.39E-04	1.97E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
3615	457052.1	3767775	0.002144	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.42E-04	1.98E-05	0.00E+00	2.43E-04	6.38E-06	0.00E+00
3616	457064.6	3767763	0.002208	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.61E-04	2.04E-05	0.00E+00	2.51E-04	6.57E-06	0.00E+00
3617	457073.5	3767759	0.002262	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.77E-04	2.08E-05	0.00E+00	2.57E-04	6.73E-06	0.00E+00
3618	457082.3	3767755	0.002314	1.19E-04	0.00E+00	2.31E-03	1.19E-04	0.00E+00	6.93E-04	2.13E-05	0.00E+00	2.63E-04	6.89E-06	0.00E+00
3619	457091.2	3767751	0.002366	1.21E-04	0.00E+00	2.37E-03	1.21E-04	0.00E+00	7.09E-04	2.18E-05	0.00E+00	2.68E-04	7.04E-06	0.00E+00
3620	457100	3767748	0.002418	1.24E-04	0.00E+00	2.42E-03	1.24E-04	0.00E+00	7.24E-04	2.23E-05	0.00E+00	2.74E-04	7.19E-06	0.00E+00
3621	457108.9	3767744	0.002467	1.26E-04	0.00E+00	2.47E-03	1.26E-04	0.00E+00	7.39E-04	2.27E-05	0.00E+00	2.80E-04	7.34E-06	0.00E+00
3622	457117.8	3767740	0.002514	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.48E-06	0.00E+00
3623	457126.6	3767737	0.002561	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.67E-04	2.36E-05	0.00E+00	2.91E-04	7.62E-06	0.00E+00
3624	457135.5	3767733	0.002605	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.96E-04	7.75E-06	0.00E+00
3625	457144.3	3767729	0.002648	1.36E-04	0.00E+00	2.65E-03	1.36E-04	0.00E+00	7.93E-04	2.44E-05	0.00E+00	3.00E-04	7.88E-06	0.00E+00
3626	457153.2	3767726	0.002689	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.05E-04	2.48E-05	0.00E+00	3.05E-04	8.00E-06	0.00E+00
3627	457162.1	3767722	0.002728	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.17E-04	2.51E-05	0.00E+00	3.10E-04	8.12E-06	0.00E+00
3628	457170.9	3767718	0.002764	1.42E-04	0.00E+00	2.76E-03	1.42E-04	0.00E+00	8.28E-04	2.55E-05	0.00E+00	3.14E-04	8.23E-06	0.00E+00
3629	457179.8	3767714	0.002797	1.43E-04	0.00E+00	2.80E-03	1.43E-04	0.00E+00	8.38E-04	2.58E-05	0.00E+00	3.17E-04	8.32E-06	0.00E+00
3630	457188.6	3767711	0.002825	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.46E-04	2.60E-05	0.00E+00	3.20E-04	8.40E-06	0.00E+00
3631	457197.5	3767707	0.002849	1.46E-04	0.00E+00	2.85E-03	1.46E-04	0.00E+00	8.53E-04	2.63E-05	0.00E+00	3.23E-04	8.48E-06	0.00E+00
3632	457206.4	3767703	0.002871	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.54E-06	0.00E+00
3633	457215.2	3767700	0.002889	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.65E-04	2.66E-05	0.00E+00	3.28E-04	8.60E-06	0.00E+00
3634	457224.1	3767696	0.002903	1.49E-04	0.00E+00	2.90E-03	1.49E-04	0.00E+00	8.69E-04	2.68E-05	0.00E+00	3.29E-04	8.64E-06	0.00E+00
3635	457232.9	3767692	0.002913	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.73E-04	2.69E-05	0.00E+00	3.31E-04	8.67E-06	0.00E+00
3636	457241.8	3767689	0.00292	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.74E-04	2.69E-05	0.00E+00	3.31E-04	8.69E-06	0.00E+00
3637	457250.7	3767685	0.002922	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.75E-04	2.69E-05	0.00E+00	3.32E-04	8.70E-06	0.00E+00
3638	457259.5	3767681	0.002921	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.75E-04	2.69E-05	0.00E+00	3.31E-04	8.69E-06	0.00E+00
3639	457268.4	3767677	0.002916	1.50E-04	0.00E+00	2.92E-03	1.50E-04	0.00E+00	8.73E-04	2.69E-05	0.00E+00	3.31E-04	8.68E-06	0.00E+00
3640	457277.2	3767674	0.002908	1.49E-04	0.00E+00	2.91E-03	1.49E-04	0.00E+00	8.71E-04	2.68E-05	0.00E+00	3.30E-04	8.65E-06	0.00E+00
3641	457286.1	3767670	0.002895	1.48E-04	0.00E+00	2.90E-03	1.48E-04	0.00E+00	8.67E-04	2.67E-05	0.00E+00	3.28E-04	8.61E-06	0.00E+00
3642	456947.1	3768033	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
3643	456947.2	3768043	0.001183	6.06E-05	0.00E+00	1.18E-03	6.06E-05	0.00E+00	3.54E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
3644	456947.3	3768052	0.00116	5.94E-05	0.00E+00	1.16E-03	5.94E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.32E-04	3.45E-06	0.00E+00
3645	456947.4	3768062	0.001136	5.82E-05	0.00E+00	1.14E-03	5.82E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00

3646	456947.4	3768072	0.001112	5.70E-05	0.00E+00	1.11E-03	5.70E-05	0.00E+00	3.33E-04	1.02E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
3647	456947.5	3768081	0.001087	5.57E-05	0.00E+00	1.09E-03	5.57E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.24E-06	0.00E+00
3648	456947.6	3768091	0.001063	5.45E-05	0.00E+00	1.06E-03	5.45E-05	0.00E+00	3.18E-04	9.80E-06	0.00E+00	1.21E-04	3.16E-06	0.00E+00
3649	456947.7	3768100	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
3650	456947.7	3768110	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.34E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
3651	456947.8	3768120	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.11E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
3652	456947.9	3768129	0.000964	4.94E-05	0.00E+00	9.64E-04	4.94E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
3653	456948	3768139	0.00094	4.82E-05	0.00E+00	9.40E-04	4.82E-05	0.00E+00	2.82E-04	8.67E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
3654	456948	3768148	0.000917	4.70E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.45E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
3655	456948.1	3768158	0.000893	4.58E-05	0.00E+00	8.93E-04	4.58E-05	0.00E+00	2.67E-04	8.23E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
3656	456948.2	3768168	0.00087	4.46E-05	0.00E+00	8.70E-04	4.46E-05	0.00E+00	2.61E-04	8.02E-06	0.00E+00	9.87E-05	2.59E-06	0.00E+00
3657	456948.3	3768177	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
3658	456948.3	3768187	0.000825	4.23E-05	0.00E+00	8.25E-04	4.23E-05	0.00E+00	2.47E-04	7.60E-06	0.00E+00	9.36E-05	2.45E-06	0.00E+00
3659	456948.4	3768197	0.000803	4.12E-05	0.00E+00	8.03E-04	4.12E-05	0.00E+00	2.40E-04	7.40E-06	0.00E+00	9.11E-05	2.39E-06	0.00E+00
3660	456948.5	3768206	0.000781	4.01E-05	0.00E+00	7.81E-04	4.01E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.86E-05	2.32E-06	0.00E+00
3661	456948.5	3768216	0.00076	3.90E-05	0.00E+00	7.60E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
3662	456948.6	3768225	0.00074	3.79E-05	0.00E+00	7.40E-04	3.79E-05	0.00E+00	2.22E-04	6.82E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00
3663	456948.7	3768235	0.00072	3.69E-05	0.00E+00	7.20E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.17E-05	2.14E-06	0.00E+00
3664	456925.8	3768024	0.001132	5.80E-05	0.00E+00	1.13E-03	5.80E-05	0.00E+00	3.39E-04	1.04E-05	0.00E+00	1.28E-04	3.37E-06	0.00E+00
3665	456929.4	3768015	0.001167	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.49E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
3666	456933	3768007	0.001202	6.16E-05	0.00E+00	1.20E-03	6.16E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.58E-06	0.00E+00
3667	456936.6	3767998	0.001238	6.34E-05	0.00E+00	1.24E-03	6.34E-05	0.00E+00	3.71E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
3668	456940.2	3767989	0.001274	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.45E-04	3.79E-06	0.00E+00
3669	456943.9	3767980	0.00131	6.72E-05	0.00E+00	1.31E-03	6.72E-05	0.00E+00	3.92E-04	1.21E-05	0.00E+00	1.49E-04	3.90E-06	0.00E+00
3670	456947.5	3767971	0.001347	6.90E-05	0.00E+00	1.35E-03	6.90E-05	0.00E+00	4.03E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
3671	456951.1	3767962	0.001383	7.09E-05	0.00E+00	1.38E-03	7.09E-05	0.00E+00	4.14E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
3672	456954.7	3767953	0.00142	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.22E-06	0.00E+00
3673	456958.3	3767944	0.001455	7.46E-05	0.00E+00	1.46E-03	7.46E-05	0.00E+00	4.36E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
3674	456962	3767935	0.001491	7.64E-05	0.00E+00	1.49E-03	7.64E-05	0.00E+00	4.47E-04	1.37E-05	0.00E+00	1.69E-04	4.44E-06	0.00E+00
3675	456965.6	3767927	0.001526	7.82E-05	0.00E+00	1.53E-03	7.82E-05	0.00E+00	4.57E-04	1.41E-05	0.00E+00	1.73E-04	4.54E-06	0.00E+00
3676	456969.2	3767918	0.001561	8.00E-05	0.00E+00	1.56E-03	8.00E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
3677	456972.8	3767909	0.001596	8.18E-05	0.00E+00	1.60E-03	8.18E-05	0.00E+00	4.78E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
3678	456976.4	3767900	0.00163	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.88E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
3679	456980.1	3767891	0.001664	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
3680	456983.7	3767882	0.001696	8.69E-05	0.00E+00	1.70E-03	8.69E-05	0.00E+00	5.08E-04	1.56E-05	0.00E+00	1.92E-04	5.05E-06	0.00E+00
3681	456987.3	3767873	0.001727	8.86E-05	0.00E+00	1.73E-03	8.86E-05	0.00E+00	5.17E-04	1.59E-05	0.00E+00	1.96E-04	5.14E-06	0.00E+00
3682	456990.9	3767864	0.001757	9.01E-05	0.00E+00	1.76E-03	9.01E-05	0.00E+00	5.26E-04	1.62E-05	0.00E+00	1.99E-04	5.23E-06	0.00E+00
3683	456994.5	3767855	0.001786	9.16E-05	0.00E+00	1.79E-03	9.16E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
3684	456998.2	3767846	0.001814	9.30E-05	0.00E+00	1.81E-03	9.30E-05	0.00E+00	5.43E-04	1.67E-05	0.00E+00	2.06E-04	5.40E-06	0.00E+00
3685	457001.8	3767838	0.00184	9.43E-05	0.00E+00	1.84E-03	9.43E-05	0.00E+00	5.51E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
3686	457005.4	3767829	0.001864	9.56E-05	0.00E+00	1.86E-03	9.56E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.55E-06	0.00E+00
3687	457009	3767820	0.001886	9.67E-05	0.00E+00	1.89E-03	9.67E-05	0.00E+00	5.65E-04	1.74E-05	0.00E+00	2.14E-04	5.61E-06	0.00E+00
3688	457012.6	3767811	0.001907	9.78E-05	0.00E+00	1.91E-03	9.78E-05	0.00E+00	5.71E-04	1.76E-05	0.00E+00	2.16E-04	5.67E-06	0.00E+00
3689	457016.3	3767802	0.001927	9.88E-05	0.00E+00	1.93E-03	9.88E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.19E-04	5.73E-06	0.00E+00
3690	457019.9	3767793	0.001944	9.97E-05	0.00E+00	1.94E-03	9.97E-05	0.00E+00	5.82E-04	1.79E-05	0.00E+00	2.21E-04	5.78E-06	0.00E+00
3691	457023.5	3767784	0.001959	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.87E-04	1.81E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
3692	457027.1	3767775	0.001973	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.87E-06	0.00E+00
3693	457030.7	3767766	0.001985	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.25E-04	5.91E-06	0.00E+00
3694	457034.4	3767758	0.001996	1.02E-04	0.00E+00	2.00E-03	1.02E-04	0.00E+00	5.98E-04	1.84E-05	0.00E+00	2.26E-04	5.94E-06	0.00E+00
3695	457046.8	3767745	0.002055	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.15E-04	1.89E-05	0.00E+00	2.33E-04	6.12E-06	0.00E+00
3696	457055.7	3767741	0.002104	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.30E-04	1.94E-05	0.00E+00	2.39E-04	6.26E-06	0.00E+00
3697	457064.6	3767738	0.002151	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.44E-04	1.98E-05	0.00E+00	2.44E-04	6.40E-06	0.00E+00
3698	457073.4	3767734	0.002198	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.58E-04	2.03E-05	0.00E+00	2.49E-04	6.54E-06	0.00E+00
3699	457082.3	3767730	0.002245	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
3700	457091.1	3767726	0.00229	1.17E-04	0.00E+00	2.29E-03	1.17E-04	0.00E+00	6.86E-04	2.11E-05	0.00E+00	2.60E-04	6.82E-06	0.00E+00
3701	457100	3767723	0.002333	1.20E-04	0.00E+00	2.33E-03	1.20E-04	0.00E+00	6.99E-04	2.15E-05	0.00E+00	2.65E-04	6.94E-06	0.00E+00
3702	457108.9	3767719	0.002374	1.22E-04	0.00E+00	2.37E-03	1.22E-04	0.00E+00	7.11E-04	2.19E-05	0.00E+00	2.69E-04	7.06E-06	0.00E+00
3703	457117.7	3767715	0.002413	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.22E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
3704	457126.6	3767712	0.002453	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.35E-04	2.26E-05	0.00E+00	2.78E-04	7.30E-06	0.00E+00
3705	457135.4	3767708	0.002492	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.46E-04	2.30E-05	0.00E+00	2.83E-04	7.41E-06	0.00E+00
3706	457144.3	3767704	0.002528	1.30E-04	0.00E+00	2.53E-03	1.30E-04	0.00E+00	7.57E-04	2.33E-05	0.00E+00	2.87E-04	7.52E-06	0.00E+00
3707	457153.2	3767701	0.002562	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.67E-04	2.36E-05	0.00E+00	2.91E-04	7.62E-06	0.00E+00
3708	457162	3767697	0.002592	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.76E-04	2.39E-05	0.00E+00	2.94E-04	7.71E-06	0.00E+00
3709	457170.9	3767693	0.00262	1.34E-04	0.00E+00	2.62E-03	1.34E-04	0.00E+00	7.85E-04	2.41E-05	0.00E+00	2.97E-04	7.79E-06	0.00E+00
3710	457179.8	3767689	0.002644	1.36E-04	0.00E+00	2.64E-03	1.36E-04	0.00E+00	7.92E-04	2.44E-05	0.00E+00	3.00E-04	7.87E-06	0.00E+00
3711	457188.6	3767686	0.002666	1.37E-04	0.00E+00	2.67E-03	1.37E-04	0.00E+00	7.99E-04	2.46E-05	0.00E+00	3.02E-04	7.93E-06	0.00E+00
3712	457197.5	3767682	0.002686	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.05E-04	2.48E-05	0.00E+00	3.05E-04	7.99E-06	0.00E+00
3713	457206.3	3767678	0.002703	1.39E-04	0.00E+00	2.70E-03	1.39E-04	0.00E+00	8.10E-04	2.49E-05	0.00E+00	3.07E-04	8.04E-06	0.00E+00
3714	457215.2	3767675	0.002716	1.39E-04	0.00E+00	2.72E-03	1.39E-04	0.00E+00	8.13E-04	2.50E-05	0.00E+00	3.08E-04	8.08E-06	0.00E+00
3715	457224.1	3767671	0.002725	1.40E-04	0.00E+00	2.72E-03	1.40E-04	0.00E+00	8.16E-04	2.51E-05	0.00E+00	3.09E-04	8.11E-06	0.00E+00
3716	457232.9	3767667	0.00273	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.12E-06	0.00E+00
3717	457241.8	3767664	0.002732	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.13E-06	0.00E+00
3718	457250.6	3767660	0.002731	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.18E-04	2.52E-05	0.00E+00	3.10E-04	8.13E-06	0.00E+00
3719	457259.5	3767656	0.002726	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.17E-04	2.51E-05	0.00E+00	3.09E-04	8.11E-06	0.00E+00
3720	457268.4	3767652	0.002719	1.39E-04	0.00E+00	2.72E-03	1.39E-04	0.00E+00	8.14E-04	2.51E-05	0.00E+00	3.08E-04	8.09E-06	0.00E+00
3721	457277.2	3767649	0.002708	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.11E-04	2.50E-05	0.00E+00	3.07E-04	8.06E-06	0.00E+00
3722	457286.1	3767645	0.002694	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.07E-04	2.48E-05	0.00E+00	3.06E-04	8.02E-06	0.00E+00
3723	456922.1	3768033	0.001098	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
3724	456922.2	3768043	0.001077	5.52E-05	0.00E+00	1.08E-03	5.52E-05	0.00E+00	3.23E-04	9.93E-06	0.00E+00	1.22E-04	3.20E-06	0.00E+00
3725	456922.3	3768053	0.001056	5.41E-05	0.00E+00	1.06E-03	5.41E-05	0.00E+00	3.16E-04	9.74E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
3726	456922.4	3768062	0.001035	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.54E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
3727	456922.4	3768072	0.001014	5.20E-05	0.00E+00	1.01E-03	5.20E-05	0.00E+00	3.04E-04	9.35E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
3728	456922.5	3768081	0.000993	5.09E-05	0.00E+00	9.93E-04	5.09E-05	0.00E+00	2.97E-04	9.15E-06	0.00E+00	1.13E-04	2.95E-06	0.00E+00
3729	456922.6	3768091	0.000971	4.98E-05	0.00E+00	9.71E-04	4.98E-05	0.00E+00	2.91E-04	8.95E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
3730	456922.7	3768101	0.000949	4.87E-05	0.00E+00	9.49E-04	4.87E-05	0.00E+00	2.84E-04	8.75E-06	0.00E+00	1.08E-04	2.82E-06	0.00E+00
3731	456922.7	3768110	0.000928	4.76E-05	0.00E+00	9.28E-04	4.76E-05	0.00E+00	2.78E-04	8.55E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
3732	456922.8	3768120	0.000906	4.64E-05	0.00E+00	9.06E-04	4.64E-05	0.00E+00	2.71E-04	8.35E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
3733	456922.9	3768129	0.000885	4.53E-05	0.00E+00	8.85E-04	4.53E-05	0.00E+00	2.65E-04	8.15E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
3734	456923	3768139	0.000863	4.43E-05	0.00E+00	8.63E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.79E-05	2.57E-06	0.00E+00
3735	456923	3768149	0.000842	4.32E-05	0.00E+00	8.42E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
3736	456923.1	3768158	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.32E-05	2.45E-06	0.00E+00
3737	456923.2	3768168	0.000802	4.11E-05	0.00E+00	8.02E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.09E-05	2.39E-06	0.00E+00
3738	456923.3	3768178	0.000782	4.01E-05	0.00E+00	7.82E-04	4.01E-05	0.00E+00	2.34E-04	7.21E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
3739	456923.3	3768187	0.000762	3.91E-05	0.00E+00	7.62E-04	3.91E-05	0.00E+00	2.28E-04	7.03E-06	0.00E+00	8.65E-05	2.27E-06	0.00E+00
3740	456923.4	3768197	0.000743	3.81E-05	0.00E+00	7.43E-04	3.81E-05	0.00E+00	2.23E-04	6.85E-06	0.00E+00	8.43E-05	2.21E-06	0.00E+00
3741	456923.5	3768206	0.000724	3.71E-05	0.00E+00	7.24E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.21E-05	2.15E-06	0.00E+00

3742	456923.5	3768216	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.01E-05	2.10E-06	0.00E+00
3743	456923.6	3768226	0.000688	3.53E-05	0.00E+00	6.88E-04	3.53E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.80E-05	2.05E-06	0.00E+00
3744	456923.7	3768235	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.60E-05	1.99E-06	0.00E+00
3745	456885.7	3768025	0.000981	5.03E-05	0.00E+00	9.81E-04	5.03E-05	0.00E+00	2.94E-04	9.05E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
3746	456889.2	3768016	0.001009	5.17E-05	0.00E+00	1.01E-03	5.17E-05	0.00E+00	3.02E-04	9.30E-06	0.00E+00	1.15E-04	3.00E-06	0.00E+00
3747	456892.8	3768007	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.56E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
3748	456924.6	3767929	0.001303	6.68E-05	0.00E+00	1.30E-03	6.68E-05	0.00E+00	3.90E-04	1.20E-05	0.00E+00	1.48E-04	3.88E-06	0.00E+00
3749	456928.2	3767921	0.001333	6.83E-05	0.00E+00	1.33E-03	6.83E-05	0.00E+00	3.99E-04	1.23E-05	0.00E+00	1.51E-04	3.97E-06	0.00E+00
3750	456931.7	3767912	0.001363	6.98E-05	0.00E+00	1.36E-03	6.98E-05	0.00E+00	4.08E-04	1.26E-05	0.00E+00	1.55E-04	4.05E-06	0.00E+00
3751	456935.2	3767903	0.001392	7.14E-05	0.00E+00	1.39E-03	7.14E-05	0.00E+00	4.17E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
3752	456938.8	3767894	0.001421	7.28E-05	0.00E+00	1.42E-03	7.28E-05	0.00E+00	4.25E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
3753	456942.3	3767886	0.001449	7.43E-05	0.00E+00	1.45E-03	7.43E-05	0.00E+00	4.34E-04	1.34E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
3754	456945.9	3767877	0.001477	7.57E-05	0.00E+00	1.48E-03	7.57E-05	0.00E+00	4.42E-04	1.36E-05	0.00E+00	1.68E-04	4.39E-06	0.00E+00
3755	456949.4	3767868	0.001504	7.71E-05	0.00E+00	1.50E-03	7.71E-05	0.00E+00	4.50E-04	1.39E-05	0.00E+00	1.71E-04	4.48E-06	0.00E+00
3756	456952.9	3767860	0.00153	7.84E-05	0.00E+00	1.53E-03	7.84E-05	0.00E+00	4.58E-04	1.41E-05	0.00E+00	1.74E-04	4.55E-06	0.00E+00
3757	456956.5	3767851	0.001556	7.97E-05	0.00E+00	1.56E-03	7.97E-05	0.00E+00	4.66E-04	1.43E-05	0.00E+00	1.76E-04	4.63E-06	0.00E+00
3758	456960	3767842	0.00158	8.10E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
3759	456963.6	3767834	0.001604	8.22E-05	0.00E+00	1.60E-03	8.22E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00
3760	456967.1	3767825	0.001626	8.34E-05	0.00E+00	1.63E-03	8.34E-05	0.00E+00	4.87E-04	1.50E-05	0.00E+00	1.85E-04	4.84E-06	0.00E+00
3761	456970.6	3767816	0.001647	8.45E-05	0.00E+00	1.65E-03	8.45E-05	0.00E+00	4.93E-04	1.52E-05	0.00E+00	1.87E-04	4.90E-06	0.00E+00
3762	456974.2	3767807	0.001667	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
3763	456977.7	3767799	0.001686	8.65E-05	0.00E+00	1.69E-03	8.65E-05	0.00E+00	5.05E-04	1.55E-05	0.00E+00	1.91E-04	5.02E-06	0.00E+00
3764	456981.3	3767790	0.001705	8.74E-05	0.00E+00	1.70E-03	8.74E-05	0.00E+00	5.11E-04	1.57E-05	0.00E+00	1.93E-04	5.07E-06	0.00E+00
3765	456984.8	3767781	0.001722	8.83E-05	0.00E+00	1.72E-03	8.83E-05	0.00E+00	5.16E-04	1.59E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
3766	456988.3	3767773	0.001737	8.91E-05	0.00E+00	1.74E-03	8.91E-05	0.00E+00	5.20E-04	1.60E-05	0.00E+00	1.97E-04	5.17E-06	0.00E+00
3767	456991.9	3767764	0.001752	8.98E-05	0.00E+00	1.75E-03	8.98E-05	0.00E+00	5.25E-04	1.61E-05	0.00E+00	1.99E-04	5.21E-06	0.00E+00
3768	456995.4	3767755	0.001765	9.05E-05	0.00E+00	1.76E-03	9.05E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.25E-06	0.00E+00
3769	456999	3767747	0.001776	9.11E-05	0.00E+00	1.78E-03	9.11E-05	0.00E+00	5.32E-04	1.64E-05	0.00E+00	2.02E-04	5.29E-06	0.00E+00
3770	457002.5	3767738	0.001787	9.16E-05	0.00E+00	1.79E-03	9.16E-05	0.00E+00	5.35E-04	1.65E-05	0.00E+00	2.03E-04	5.32E-06	0.00E+00
3771	457006	3767729	0.001796	9.21E-05	0.00E+00	1.80E-03	9.21E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.34E-06	0.00E+00
3772	457018.2	3767717	0.001843	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
3773	457026.9	3767713	0.001883	9.65E-05	0.00E+00	1.88E-03	9.65E-05	0.00E+00	5.64E-04	1.74E-05	0.00E+00	2.14E-04	5.60E-06	0.00E+00
3774	457035.6	3767710	0.001923	9.86E-05	0.00E+00	1.92E-03	9.86E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.72E-06	0.00E+00
3775	457044.2	3767706	0.001962	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.88E-04	1.81E-05	0.00E+00	2.23E-04	5.84E-06	0.00E+00
3776	457052.9	3767702	0.002	1.03E-04	0.00E+00	2.00E-03	1.03E-04	0.00E+00	5.99E-04	1.84E-05	0.00E+00	2.27E-04	5.95E-06	0.00E+00
3777	457061.6	3767699	0.002038	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.11E-04	1.88E-05	0.00E+00	2.31E-04	6.07E-06	0.00E+00
3778	457070.2	3767695	0.002076	1.06E-04	0.00E+00	2.08E-03	1.06E-04	0.00E+00	6.22E-04	1.91E-05	0.00E+00	2.36E-04	6.18E-06	0.00E+00
3779	457078.9	3767692	0.002112	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.33E-04	1.95E-05	0.00E+00	2.40E-04	6.29E-06	0.00E+00
3780	457087.5	3767688	0.002147	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.43E-04	1.98E-05	0.00E+00	2.44E-04	6.39E-06	0.00E+00
3781	457096.2	3767684	0.002181	1.12E-04	0.00E+00	2.18E-03	1.12E-04	0.00E+00	6.53E-04	2.01E-05	0.00E+00	2.47E-04	6.49E-06	0.00E+00
3782	457104.9	3767681	0.002213	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.63E-04	2.04E-05	0.00E+00	2.51E-04	6.59E-06	0.00E+00
3783	457113.5	3767677	0.002244	1.15E-04	0.00E+00	2.24E-03	1.15E-04	0.00E+00	6.72E-04	2.07E-05	0.00E+00	2.55E-04	6.68E-06	0.00E+00
3784	457122.2	3767673	0.002274	1.17E-04	0.00E+00	2.27E-03	1.17E-04	0.00E+00	6.81E-04	2.10E-05	0.00E+00	2.58E-04	6.77E-06	0.00E+00
3785	457130.9	3767670	0.002302	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.61E-04	6.85E-06	0.00E+00
3786	457139.5	3767666	0.002329	1.19E-04	0.00E+00	2.33E-03	1.19E-04	0.00E+00	6.98E-04	2.15E-05	0.00E+00	2.64E-04	6.93E-06	0.00E+00
3787	457148.2	3767663	0.002354	1.21E-04	0.00E+00	2.35E-03	1.21E-04	0.00E+00	7.05E-04	2.17E-05	0.00E+00	2.67E-04	7.01E-06	0.00E+00
3788	457156.8	3767659	0.002376	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.12E-04	2.19E-05	0.00E+00	2.70E-04	7.07E-06	0.00E+00
3789	457165.5	3767655	0.002395	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.17E-04	2.21E-05	0.00E+00	2.72E-04	7.13E-06	0.00E+00
3790	457174.2	3767652	0.002412	1.24E-04	0.00E+00	2.41E-03	1.24E-04	0.00E+00	7.23E-04	2.22E-05	0.00E+00	2.74E-04	7.18E-06	0.00E+00
3791	457182.8	3767648	0.002427	1.24E-04	0.00E+00	2.43E-03	1.24E-04	0.00E+00	7.27E-04	2.24E-05	0.00E+00	2.75E-04	7.22E-06	0.00E+00
3792	457191.5	3767644	0.00244	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.31E-04	2.25E-05	0.00E+00	2.77E-04	7.26E-06	0.00E+00
3793	457200.2	3767641	0.00245	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.34E-04	2.26E-05	0.00E+00	2.78E-04	7.29E-06	0.00E+00
3794	457208.8	3767637	0.002457	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.36E-04	2.27E-05	0.00E+00	2.79E-04	7.31E-06	0.00E+00
3795	457217.5	3767634	0.002462	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.33E-06	0.00E+00
3796	457226.2	3767630	0.002465	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.38E-04	2.27E-05	0.00E+00	2.80E-04	7.34E-06	0.00E+00
3797	457234.8	3767626	0.002465	1.26E-04	0.00E+00	2.47E-03	1.26E-04	0.00E+00	7.38E-04	2.27E-05	0.00E+00	2.80E-04	7.34E-06	0.00E+00
3798	457243.5	3767623	0.002462	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.38E-04	2.27E-05	0.00E+00	2.79E-04	7.33E-06	0.00E+00
3799	457252.1	3767619	0.002457	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.36E-04	2.26E-05	0.00E+00	2.79E-04	7.31E-06	0.00E+00
3800	457260.8	3767616	0.002448	1.26E-04	0.00E+00	2.45E-03	1.26E-04	0.00E+00	7.33E-04	2.26E-05	0.00E+00	2.78E-04	7.29E-06	0.00E+00
3801	456882.1	3768034	0.000954	4.89E-05	0.00E+00	9.54E-04	4.89E-05	0.00E+00	2.86E-04	8.79E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
3802	456882.2	3768043	0.000937	4.80E-05	0.00E+00	9.37E-04	4.80E-05	0.00E+00	2.81E-04	8.63E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
3803	456882.3	3768053	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
3804	456882.4	3768062	0.000901	4.62E-05	0.00E+00	9.01E-04	4.62E-05	0.00E+00	2.70E-04	8.31E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
3805	456882.4	3768072	0.000884	4.53E-05	0.00E+00	8.84E-04	4.53E-05	0.00E+00	2.65E-04	8.15E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
3806	456882.5	3768082	0.000866	4.44E-05	0.00E+00	8.66E-04	4.44E-05	0.00E+00	2.59E-04	7.98E-06	0.00E+00	9.82E-05	2.58E-06	0.00E+00
3807	456882.6	3768091	0.000848	4.35E-05	0.00E+00	8.48E-04	4.35E-05	0.00E+00	2.54E-04	7.82E-06	0.00E+00	9.63E-05	2.52E-06	0.00E+00
3808	456882.7	3768101	0.000831	4.26E-05	0.00E+00	8.31E-04	4.26E-05	0.00E+00	2.49E-04	7.66E-06	0.00E+00	9.43E-05	2.47E-06	0.00E+00
3809	456882.7	3768111	0.000813	4.17E-05	0.00E+00	8.13E-04	4.17E-05	0.00E+00	2.44E-04	7.50E-06	0.00E+00	9.23E-05	2.42E-06	0.00E+00
3810	456882.8	3768120	0.000796	4.08E-05	0.00E+00	7.96E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.03E-05	2.37E-06	0.00E+00
3811	456882.9	3768130	0.000778	3.99E-05	0.00E+00	7.78E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.83E-05	2.31E-06	0.00E+00
3812	456883	3768139	0.00076	3.90E-05	0.00E+00	7.60E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
3813	456883	3768149	0.000743	3.81E-05	0.00E+00	7.43E-04	3.81E-05	0.00E+00	2.23E-04	6.85E-06	0.00E+00	8.43E-05	2.21E-06	0.00E+00
3814	456883.1	3768159	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.18E-04	6.69E-06	0.00E+00	8.24E-05	2.16E-06	0.00E+00
3815	456883.2	3768168	0.000709	3.64E-05	0.00E+00	7.09E-04	3.64E-05	0.00E+00	2.12E-04	6.54E-06	0.00E+00	8.05E-05	2.11E-06	0.00E+00
3816	456883.3	3768178	0.000693	3.55E-05	0.00E+00	6.93E-04	3.55E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
3817	456883.3	3768187	0.000677	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.68E-05	2.01E-06	0.00E+00
3818	456883.4	3768197	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
3819	456883.5	3768207	0.000646	3.31E-05	0.00E+00	6.46E-04	3.31E-05	0.00E+00	1.93E-04	5.95E-06	0.00E+00	7.32E-05	1.92E-06	0.00E+00
3820	456883.6	3768216	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.81E-06	0.00E+00	7.15E-05	1.88E-06	0.00E+00
3821	456883.6	3768226	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
3822	456883.7	3768236	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.82E-05	1.79E-06	0.00E+00
3823	456845.7	3768025	0.000861	4.41E-05	0.00E+00	8.61E-04	4.41E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
3824	456849.3	3768016	0.000885	4.53E-05	0.00E+00	8.85E-04	4.53E-05	0.00E+00	2.65E-04	8.15E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
3825	456852.8	3768008	0.000908	4.66E-05	0.00E+00	9.08E-04	4.66E-05	0.00E+00	2.72E-04	8.37E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
3826	456856.4	3767999	0.000932	4.78E-05	0.00E+00	9.32E-04	4.78E-05	0.00E+00	2.79E-04	8.59E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
3827	456860	3767990	0.000956	4.90E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
3828	456863.5	3767981	0.000981	5.03E-05	0.00E+00	9.81E-04	5.03E-05	0.00E+00	2.94E-04	9.04E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
3829	456867.1	3767973	0.001006	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.01E-04	9.27E-06	0.00E+00	1.14E-04	2.99E-06	0.00E+00
3830	456870.7	3767964	0.001031	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.50E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
3831	456874.2	3767955	0.001056	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.16E-04	9.74E-06	0.00E+00	1.20E-04	3.14E-06	0.00E+00
3832	456877.8	3767946	0.001082	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.97E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
3833	456881.4	3767938	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
3834	456884.9	3767929	0.001134	5.81E-05	0.00E+00	1.13E-03	5.81E-05	0.00E+00	3.40E-04	1.04E-05	0.00E+00	1.29E-04	3.37E-06	0.00E+00
3835	456888.5	3767920	0.001159	5.94E-05	0.00E+00	1.16E-03	5.94E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.32E-04	3.45E-06	0.00E+00
3836	456892.1	3767911	0.001185	6.07E-05	0.00E+00	1.18E-03	6.07E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.34E-04	3.53E-06	0.00E+00
3837	456924.1	3767832	0.0014	7.18E-05	0.00E+00	1.40E-03	7.18E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00

3838	456927.7	3767824	0.001421	7.29E-05	0.00E+00	1.42E-03	7.29E-05	0.00E+00	4.26E-04	1.31E-05	0.00E+00	1.61E-04	4.23E-06	0.00E+00
3839	456931.3	3767815	0.001442	7.39E-05	0.00E+00	1.44E-03	7.39E-05	0.00E+00	4.32E-04	1.33E-05	0.00E+00	1.64E-04	4.29E-06	0.00E+00
3840	456934.8	3767806	0.001462	7.50E-05	0.00E+00	1.46E-03	7.50E-05	0.00E+00	4.38E-04	1.35E-05	0.00E+00	1.66E-04	4.35E-06	0.00E+00
3841	456938.4	3767797	0.001481	7.59E-05	0.00E+00	1.48E-03	7.59E-05	0.00E+00	4.44E-04	1.37E-05	0.00E+00	1.68E-04	4.41E-06	0.00E+00
3842	456942	3767789	0.001499	7.69E-05	0.00E+00	1.50E-03	7.69E-05	0.00E+00	4.49E-04	1.38E-05	0.00E+00	1.70E-04	4.46E-06	0.00E+00
3843	456945.5	3767780	0.001517	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
3844	456949.1	3767771	0.001533	7.86E-05	0.00E+00	1.53E-03	7.86E-05	0.00E+00	4.59E-04	1.41E-05	0.00E+00	1.74E-04	4.56E-06	0.00E+00
3845	456952.6	3767762	0.001549	7.94E-05	0.00E+00	1.55E-03	7.94E-05	0.00E+00	4.64E-04	1.43E-05	0.00E+00	1.76E-04	4.61E-06	0.00E+00
3846	456956.2	3767754	0.001563	8.01E-05	0.00E+00	1.56E-03	8.01E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
3847	456959.8	3767745	0.001576	8.08E-05	0.00E+00	1.58E-03	8.08E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
3848	456963.3	3767736	0.001587	8.14E-05	0.00E+00	1.59E-03	8.14E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
3849	456966.9	3767727	0.001598	8.19E-05	0.00E+00	1.60E-03	8.19E-05	0.00E+00	4.79E-04	1.47E-05	0.00E+00	1.81E-04	4.75E-06	0.00E+00
3850	456970.5	3767719	0.001607	8.24E-05	0.00E+00	1.61E-03	8.24E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
3851	456974	3767710	0.001616	8.28E-05	0.00E+00	1.62E-03	8.28E-05	0.00E+00	4.84E-04	1.49E-05	0.00E+00	1.83E-04	4.81E-06	0.00E+00
3852	456977.6	3767701	0.001624	8.32E-05	0.00E+00	1.62E-03	8.32E-05	0.00E+00	4.86E-04	1.50E-05	0.00E+00	1.84E-04	4.83E-06	0.00E+00
3853	456989.9	3767689	0.001665	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.99E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
3854	456998.6	3767685	0.001699	8.71E-05	0.00E+00	1.70E-03	8.71E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
3855	457007.3	3767681	0.001734	8.89E-05	0.00E+00	1.73E-03	8.89E-05	0.00E+00	5.19E-04	1.60E-05	0.00E+00	1.97E-04	5.16E-06	0.00E+00
3856	457016.1	3767678	0.001768	9.06E-05	0.00E+00	1.77E-03	9.06E-05	0.00E+00	5.30E-04	1.63E-05	0.00E+00	2.01E-04	5.26E-06	0.00E+00
3857	457024.8	3767674	0.001802	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
3858	457033.5	3767670	0.001835	9.41E-05	0.00E+00	1.84E-03	9.41E-05	0.00E+00	5.50E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
3859	457042.2	3767667	0.001868	9.58E-05	0.00E+00	1.87E-03	9.58E-05	0.00E+00	5.59E-04	1.72E-05	0.00E+00	2.12E-04	5.56E-06	0.00E+00
3860	457051	3767663	0.0019	9.74E-05	0.00E+00	1.90E-03	9.74E-05	0.00E+00	5.69E-04	1.75E-05	0.00E+00	2.16E-04	5.65E-06	0.00E+00
3861	457059.7	3767660	0.001932	9.90E-05	0.00E+00	1.93E-03	9.90E-05	0.00E+00	5.79E-04	1.78E-05	0.00E+00	2.19E-04	5.75E-06	0.00E+00
3862	457068.4	3767656	0.001962	1.01E-04	0.00E+00	1.96E-03	1.01E-04	0.00E+00	5.88E-04	1.81E-05	0.00E+00	2.23E-04	5.84E-06	0.00E+00
3863	457077.1	3767652	0.00199	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.96E-04	1.83E-05	0.00E+00	2.26E-04	5.92E-06	0.00E+00
3864	457085.8	3767649	0.002018	1.03E-04	0.00E+00	2.02E-03	1.03E-04	0.00E+00	6.04E-04	1.86E-05	0.00E+00	2.29E-04	6.01E-06	0.00E+00
3865	457094.6	3767645	0.002045	1.05E-04	0.00E+00	2.04E-03	1.05E-04	0.00E+00	6.12E-04	1.88E-05	0.00E+00	2.32E-04	6.08E-06	0.00E+00
3866	457103.3	3767641	0.00207	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
3867	457112	3767638	0.002093	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.27E-04	1.93E-05	0.00E+00	2.38E-04	6.23E-06	0.00E+00
3868	457120.7	3767634	0.002116	1.08E-04	0.00E+00	2.12E-03	1.08E-04	0.00E+00	6.34E-04	1.95E-05	0.00E+00	2.40E-04	6.30E-06	0.00E+00
3869	457129.5	3767630	0.002137	1.10E-04	0.00E+00	2.14E-03	1.10E-04	0.00E+00	6.40E-04	1.97E-05	0.00E+00	2.42E-04	6.36E-06	0.00E+00
3870	457138.2	3767627	0.002157	1.11E-04	0.00E+00	2.16E-03	1.11E-04	0.00E+00	6.46E-04	1.99E-05	0.00E+00	2.45E-04	6.42E-06	0.00E+00
3871	457146.9	3767623	0.002175	1.12E-04	0.00E+00	2.17E-03	1.12E-04	0.00E+00	6.51E-04	2.00E-05	0.00E+00	2.47E-04	6.47E-06	0.00E+00
3872	457155.6	3767619	0.00219	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.56E-04	2.02E-05	0.00E+00	2.48E-04	6.52E-06	0.00E+00
3873	457164.4	3767616	0.002204	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.56E-06	0.00E+00
3874	456842.1	3768034	0.000838	4.30E-05	0.00E+00	8.38E-04	4.30E-05	0.00E+00	2.51E-04	7.73E-06	0.00E+00	9.51E-05	2.49E-06	0.00E+00
3875	456842.2	3768043	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
3876	456842.3	3768053	0.000809	4.15E-05	0.00E+00	8.09E-04	4.15E-05	0.00E+00	2.42E-04	7.45E-06	0.00E+00	9.17E-05	2.41E-06	0.00E+00
3877	456842.4	3768063	0.000794	4.07E-05	0.00E+00	7.94E-04	4.07E-05	0.00E+00	2.38E-04	7.32E-06	0.00E+00	9.01E-05	2.36E-06	0.00E+00
3878	456842.4	3768072	0.000779	3.99E-05	0.00E+00	7.79E-04	3.99E-05	0.00E+00	2.33E-04	7.18E-06	0.00E+00	8.84E-05	2.32E-06	0.00E+00
3879	456842.5	3768082	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
3880	456842.6	3768092	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.91E-06	0.00E+00	8.50E-05	2.23E-06	0.00E+00
3881	456842.7	3768101	0.000734	3.76E-05	0.00E+00	7.34E-04	3.76E-05	0.00E+00	2.20E-04	6.77E-06	0.00E+00	8.33E-05	2.18E-06	0.00E+00
3882	456842.7	3768111	0.000719	3.69E-05	0.00E+00	7.19E-04	3.69E-05	0.00E+00	2.15E-04	6.63E-06	0.00E+00	8.16E-05	2.14E-06	0.00E+00
3883	456842.8	3768120	0.000705	3.61E-05	0.00E+00	7.05E-04	3.61E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
3884	456842.9	3768130	0.000691	3.54E-05	0.00E+00	6.91E-04	3.54E-05	0.00E+00	2.07E-04	6.37E-06	0.00E+00	7.83E-05	2.05E-06	0.00E+00
3885	456843	3768140	0.000676	3.47E-05	0.00E+00	6.76E-04	3.47E-05	0.00E+00	2.03E-04	6.23E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
3886	456843	3768149	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
3887	456843.1	3768159	0.000648	3.32E-05	0.00E+00	6.48E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
3888	456843.2	3768169	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.84E-06	0.00E+00	7.19E-05	1.89E-06	0.00E+00
3889	456843.3	3768178	0.00062	3.18E-05	0.00E+00	6.20E-04	3.18E-05	0.00E+00	1.86E-04	5.72E-06	0.00E+00	7.04E-05	1.85E-06	0.00E+00
3890	456843.3	3768188	0.000607	3.11E-05	0.00E+00	6.07E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.81E-06	0.00E+00
3891	456843.4	3768197	0.000593	3.04E-05	0.00E+00	5.93E-04	3.04E-05	0.00E+00	1.78E-04	5.47E-06	0.00E+00	6.73E-05	1.77E-06	0.00E+00
3892	456843.5	3768207	0.00058	2.98E-05	0.00E+00	5.80E-04	2.98E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.58E-05	1.73E-06	0.00E+00
3893	456843.6	3768217	0.000568	2.91E-05	0.00E+00	5.68E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.44E-05	1.69E-06	0.00E+00
3894	456843.6	3768226	0.000555	2.85E-05	0.00E+00	5.55E-04	2.85E-05	0.00E+00	1.66E-04	5.12E-06	0.00E+00	6.30E-05	1.65E-06	0.00E+00
3895	456843.7	3768236	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
3896	456805.7	3768025	0.000762	3.91E-05	0.00E+00	7.62E-04	3.91E-05	0.00E+00	2.28E-04	7.02E-06	0.00E+00	8.64E-05	2.27E-06	0.00E+00
3897	456809.3	3768017	0.000781	4.01E-05	0.00E+00	7.81E-04	4.01E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
3898	456812.9	3768008	0.000802	4.11E-05	0.00E+00	8.02E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.09E-05	2.39E-06	0.00E+00
3899	456816.5	3767999	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
3900	456820.1	3767990	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
3901	456823.7	3767981	0.000864	4.43E-05	0.00E+00	8.64E-04	4.43E-05	0.00E+00	2.59E-04	7.96E-06	0.00E+00	9.80E-05	2.57E-06	0.00E+00
3902	456827.2	3767973	0.000885	4.54E-05	0.00E+00	8.85E-04	4.54E-05	0.00E+00	2.65E-04	8.16E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
3903	456830.8	3767964	0.000907	4.65E-05	0.00E+00	9.07E-04	4.65E-05	0.00E+00	2.72E-04	8.36E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
3904	456834.4	3767955	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
3905	456838	3767946	0.00095	4.87E-05	0.00E+00	9.50E-04	4.87E-05	0.00E+00	2.85E-04	8.76E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
3906	456841.6	3767937	0.000972	4.99E-05	0.00E+00	9.72E-04	4.99E-05	0.00E+00	2.91E-04	8.96E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
3907	456845.2	3767928	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
3908	456848.8	3767920	0.001017	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.05E-04	9.37E-06	0.00E+00	1.15E-04	3.03E-06	0.00E+00
3909	456852.3	3767911	0.001039	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
3910	456855.9	3767902	0.00106	5.44E-05	0.00E+00	1.06E-03	5.44E-05	0.00E+00	3.18E-04	9.78E-06	0.00E+00	1.20E-04	3.16E-06	0.00E+00
3911	456859.5	3767893	0.001082	5.55E-05	0.00E+00	1.08E-03	5.55E-05	0.00E+00	3.24E-04	9.98E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
3912	456863.1	3767884	0.001104	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.29E-06	0.00E+00
3913	456866.7	3767876	0.001126	5.77E-05	0.00E+00	1.13E-03	5.77E-05	0.00E+00	3.37E-04	1.04E-05	0.00E+00	1.28E-04	3.35E-06	0.00E+00
3914	456870.3	3767867	0.001147	5.88E-05	0.00E+00	1.15E-03	5.88E-05	0.00E+00	3.44E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
3915	456873.9	3767858	0.001169	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
3916	456877.4	3767849	0.00119	6.10E-05	0.00E+00	1.19E-03	6.10E-05	0.00E+00	3.56E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
3917	456881	3767840	0.00121	6.21E-05	0.00E+00	1.21E-03	6.21E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
3918	456884.6	3767832	0.001231	6.31E-05	0.00E+00	1.23E-03	6.31E-05	0.00E+00	3.69E-04	1.13E-05	0.00E+00	1.40E-04	3.66E-06	0.00E+00
3919	456888.2	3767823	0.001251	6.41E-05	0.00E+00	1.25E-03	6.41E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.72E-06	0.00E+00
3920	456891.8	3767814	0.00127	6.51E-05	0.00E+00	1.27E-03	6.51E-05	0.00E+00	3.80E-04	1.17E-05	0.00E+00	1.44E-04	3.78E-06	0.00E+00
3921	456920.5	3767743	0.0014	7.18E-05	0.00E+00	1.40E-03	7.18E-05	0.00E+00	4.19E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
3922	456924.1	3767735	0.001413	7.24E-05	0.00E+00	1.41E-03	7.24E-05	0.00E+00	4.23E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
3923	456927.6	3767726	0.001425	7.30E-05	0.00E+00	1.42E-03	7.30E-05	0.00E+00	4.27E-04	1.31E-05	0.00E+00	1.62E-04	4.24E-06	0.00E+00
3924	456931.2	3767717	0.001436	7.36E-05	0.00E+00	1.44E-03	7.36E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
3925	456934.8	3767708	0.001446	7.41E-05	0.00E+00	1.45E-03	7.41E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.30E-06	0.00E+00
3926	456938.4	3767699	0.001456	7.46E-05	0.00E+00	1.46E-03	7.46E-05	0.00E+00	4.36E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
3927	456942	3767691	0.001464	7.51E-05	0.00E+00	1.46E-03	7.51E-05	0.00E+00	4.39E-04	1.35E-05	0.00E+00	1.66E-04	4.36E-06	0.00E+00
3928	456945.6	3767682	0.001472	7.55E-05	0.00E+00	1.47E-03	7.55E-05	0.00E+00	4.41E-04	1.36E-05	0.00E+00	1.67E-04	4.38E-06	0.00E+00
3929	456949.2	3767673	0.001478	7.58E-05	0.00E+00	1.48E-03	7.58E-05	0.00E+00	4.43E-04	1.36E-05	0.00E+00	1.68E-04	4.40E-06	0.00E+00
3930	456961.5	3767661	0.001514	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
3931	456970.3	3767657	0.001545	7.92E-05	0.00E+00	1.54E-03	7.92E-05	0.00E+00	4.63E-04	1.42E-05	0.00E+00	1.75E-04	4.60E-06	0.00E+00
3932	456979.1	3767653	0.001575	8.07E-05	0.00E+00	1.57E-03	8.07E-05	0.00E+00	4.72E-04	1.45E-05	0.00E+00	1.79E-04	4.69E-06	0.00E+00
3933	456987.8	3767650	0.001604	8.22E-05	0.00E+00	1.60E-03	8.22E-05	0.00E+00	4.80E-04	1.48E-05	0.00E+00	1.82E-04	4.77E-06	0.00E+00

3934	456996.6	3767646	0.001633	8.37E-05	0.00E+00	1.63E-03	8.37E-05	0.00E+00	4.89E-04	1.51E-05	0.00E+00	1.85E-04	4.86E-06	0.00E+00
3935	457005.4	3767642	0.001662	8.52E-05	0.00E+00	1.66E-03	8.52E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
3936	457014.2	3767639	0.001691	8.67E-05	0.00E+00	1.69E-03	8.67E-05	0.00E+00	5.06E-04	1.56E-05	0.00E+00	1.92E-04	5.03E-06	0.00E+00
3937	457023	3767635	0.001719	8.81E-05	0.00E+00	1.72E-03	8.81E-05	0.00E+00	5.15E-04	1.58E-05	0.00E+00	1.95E-04	5.11E-06	0.00E+00
3938	457031.7	3767631	0.001746	8.95E-05	0.00E+00	1.75E-03	8.95E-05	0.00E+00	5.23E-04	1.61E-05	0.00E+00	1.98E-04	5.20E-06	0.00E+00
3939	457040.5	3767628	0.001772	9.09E-05	0.00E+00	1.77E-03	9.09E-05	0.00E+00	5.31E-04	1.63E-05	0.00E+00	2.01E-04	5.27E-06	0.00E+00
3940	457049.3	3767624	0.001798	9.22E-05	0.00E+00	1.80E-03	9.22E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.35E-06	0.00E+00
3941	457058.1	3767620	0.001823	9.34E-05	0.00E+00	1.82E-03	9.34E-05	0.00E+00	5.46E-04	1.68E-05	0.00E+00	2.07E-04	5.42E-06	0.00E+00
3942	457066.8	3767617	0.001848	9.47E-05	0.00E+00	1.85E-03	9.47E-05	0.00E+00	5.53E-04	1.70E-05	0.00E+00	2.10E-04	5.50E-06	0.00E+00
3943	456802.2	3768034	0.000743	3.81E-05	0.00E+00	7.43E-04	3.81E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
3944	456802.2	3768044	0.00073	3.74E-05	0.00E+00	7.30E-04	3.74E-05	0.00E+00	2.19E-04	6.73E-06	0.00E+00	8.28E-05	2.17E-06	0.00E+00
3945	456802.3	3768053	0.000718	3.68E-05	0.00E+00	7.18E-04	3.68E-05	0.00E+00	2.15E-04	6.62E-06	0.00E+00	8.14E-05	2.14E-06	0.00E+00
3946	456802.4	3768063	0.000705	3.62E-05	0.00E+00	7.05E-04	3.62E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
3947	456802.4	3768073	0.000693	3.55E-05	0.00E+00	6.93E-04	3.55E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
3948	456802.5	3768082	0.00068	3.49E-05	0.00E+00	6.80E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.72E-05	2.02E-06	0.00E+00
3949	456802.6	3768092	0.000668	3.42E-05	0.00E+00	6.68E-04	3.42E-05	0.00E+00	2.00E-04	6.16E-06	0.00E+00	7.58E-05	1.99E-06	0.00E+00
3950	456802.7	3768102	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.43E-05	1.95E-06	0.00E+00
3951	456802.7	3768111	0.000643	3.30E-05	0.00E+00	6.43E-04	3.30E-05	0.00E+00	1.93E-04	5.93E-06	0.00E+00	7.29E-05	1.91E-06	0.00E+00
3952	456802.8	3768121	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.81E-06	0.00E+00	7.15E-05	1.88E-06	0.00E+00
3953	456802.9	3768130	0.000618	3.17E-05	0.00E+00	6.18E-04	3.17E-05	0.00E+00	1.85E-04	5.70E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
3954	456803	3768140	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.81E-04	5.59E-06	0.00E+00	6.87E-05	1.80E-06	0.00E+00
3955	456803	3768150	0.000594	3.05E-05	0.00E+00	5.94E-04	3.05E-05	0.00E+00	1.78E-04	5.48E-06	0.00E+00	6.74E-05	1.77E-06	0.00E+00
3956	456803.1	3768159	0.000582	2.99E-05	0.00E+00	5.82E-04	2.99E-05	0.00E+00	1.74E-04	5.37E-06	0.00E+00	6.61E-05	1.73E-06	0.00E+00
3957	456803.2	3768169	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.48E-05	1.70E-06	0.00E+00
3958	456803.3	3768178	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
3959	456803.3	3768188	0.000548	2.81E-05	0.00E+00	5.48E-04	2.81E-05	0.00E+00	1.64E-04	5.05E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
3960	456803.4	3768198	0.000536	2.75E-05	0.00E+00	5.36E-04	2.75E-05	0.00E+00	1.61E-04	4.94E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
3961	456803.5	3768207	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.96E-05	1.56E-06	0.00E+00
3962	456803.6	3768217	0.000514	2.64E-05	0.00E+00	5.14E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.84E-05	1.53E-06	0.00E+00
3963	456803.6	3768227	0.000504	2.58E-05	0.00E+00	5.04E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.72E-05	1.50E-06	0.00E+00
3964	456803.7	3768236	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
3965	456765.8	3768026	0.00068	3.49E-05	0.00E+00	6.80E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.72E-05	2.02E-06	0.00E+00
3966	456769.4	3768017	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.43E-06	0.00E+00	7.91E-05	2.07E-06	0.00E+00
3967	456773	3768008	0.000714	3.66E-05	0.00E+00	7.14E-04	3.66E-05	0.00E+00	2.14E-04	6.58E-06	0.00E+00	8.10E-05	2.13E-06	0.00E+00
3968	456776.6	3767999	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.74E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
3969	456780.2	3767990	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.91E-06	0.00E+00	8.50E-05	2.23E-06	0.00E+00
3970	456783.8	3767981	0.000767	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
3971	456787.4	3767973	0.000785	4.03E-05	0.00E+00	7.85E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.91E-05	2.34E-06	0.00E+00
3972	456791	3767964	0.000804	4.12E-05	0.00E+00	8.04E-04	4.12E-05	0.00E+00	2.41E-04	7.41E-06	0.00E+00	9.12E-05	2.39E-06	0.00E+00
3973	456794.6	3767955	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
3974	456798.2	3767946	0.000841	4.31E-05	0.00E+00	8.41E-04	4.31E-05	0.00E+00	2.52E-04	7.75E-06	0.00E+00	9.54E-05	2.50E-06	0.00E+00
3975	456801.8	3767937	0.00086	4.41E-05	0.00E+00	8.60E-04	4.41E-05	0.00E+00	2.58E-04	7.93E-06	0.00E+00	9.76E-05	2.56E-06	0.00E+00
3976	456805.4	3767928	0.000879	4.51E-05	0.00E+00	8.79E-04	4.51E-05	0.00E+00	2.63E-04	8.10E-06	0.00E+00	9.97E-05	2.62E-06	0.00E+00
3977	456809	3767919	0.000898	4.60E-05	0.00E+00	8.98E-04	4.60E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
3978	456812.6	3767911	0.000917	4.70E-05	0.00E+00	9.17E-04	4.70E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
3979	456816.2	3767902	0.000937	4.80E-05	0.00E+00	9.37E-04	4.80E-05	0.00E+00	2.81E-04	8.64E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
3980	456819.8	3767893	0.000956	4.90E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.85E-06	0.00E+00
3981	456823.4	3767884	0.000975	5.00E-05	0.00E+00	9.75E-04	5.00E-05	0.00E+00	2.92E-04	8.99E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
3982	456827	3767875	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
3983	456830.6	3767866	0.001014	5.20E-05	0.00E+00	1.01E-03	5.20E-05	0.00E+00	3.04E-04	9.35E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
3984	456834.2	3767857	0.001033	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.52E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
3985	456837.8	3767849	0.001051	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.69E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
3986	456841.4	3767840	0.00107	5.48E-05	0.00E+00	1.07E-03	5.48E-05	0.00E+00	3.20E-04	9.86E-06	0.00E+00	1.21E-04	3.18E-06	0.00E+00
3987	456845	3767831	0.001088	5.58E-05	0.00E+00	1.09E-03	5.58E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.23E-04	3.24E-06	0.00E+00
3988	456848.6	3767822	0.001106	5.67E-05	0.00E+00	1.11E-03	5.67E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.25E-04	3.29E-06	0.00E+00
3989	456852.3	3767813	0.001123	5.76E-05	0.00E+00	1.12E-03	5.76E-05	0.00E+00	3.36E-04	1.04E-05	0.00E+00	1.27E-04	3.34E-06	0.00E+00
3990	456855.9	3767804	0.00114	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.41E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
3991	456859.5	3767795	0.001157	5.93E-05	0.00E+00	1.16E-03	5.93E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.31E-04	3.44E-06	0.00E+00
3992	456863.1	3767787	0.001173	6.02E-05	0.00E+00	1.17E-03	6.02E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
3993	456866.7	3767778	0.001189	6.10E-05	0.00E+00	1.19E-03	6.10E-05	0.00E+00	3.56E-04	1.10E-05	0.00E+00	1.35E-04	3.54E-06	0.00E+00
3994	456870.3	3767769	0.001205	6.18E-05	0.00E+00	1.20E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.58E-06	0.00E+00
3995	456873.9	3767760	0.00122	6.25E-05	0.00E+00	1.22E-03	6.25E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.63E-06	0.00E+00
3996	456877.5	3767751	0.001234	6.33E-05	0.00E+00	1.23E-03	6.33E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
3997	456881.1	3767742	0.001248	6.40E-05	0.00E+00	1.25E-03	6.40E-05	0.00E+00	3.74E-04	1.15E-05	0.00E+00	1.42E-04	3.71E-06	0.00E+00
3998	456884.7	3767733	0.001261	6.46E-05	0.00E+00	1.26E-03	6.46E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.75E-06	0.00E+00
3999	456888.3	3767725	0.001274	6.53E-05	0.00E+00	1.27E-03	6.53E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
4000	456920.7	3767645	0.001352	6.93E-05	0.00E+00	1.35E-03	6.93E-05	0.00E+00	4.05E-04	1.25E-05	0.00E+00	1.53E-04	4.02E-06	0.00E+00
4001	456933.2	3767632	0.001384	7.09E-05	0.00E+00	1.38E-03	7.09E-05	0.00E+00	4.14E-04	1.28E-05	0.00E+00	1.57E-04	4.12E-06	0.00E+00
4002	456942	3767629	0.00141	7.23E-05	0.00E+00	1.41E-03	7.23E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.20E-06	0.00E+00
4003	456950.8	3767625	0.001436	7.36E-05	0.00E+00	1.44E-03	7.36E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
4004	456959.6	3767621	0.001462	7.49E-05	0.00E+00	1.46E-03	7.49E-05	0.00E+00	4.38E-04	1.35E-05	0.00E+00	1.66E-04	4.35E-06	0.00E+00
4005	456968.4	3767618	0.001488	7.63E-05	0.00E+00	1.49E-03	7.63E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
4006	456977.3	3767614	0.001513	7.76E-05	0.00E+00	1.51E-03	7.76E-05	0.00E+00	4.53E-04	1.39E-05	0.00E+00	1.72E-04	4.50E-06	0.00E+00
4007	456762.2	3768034	0.000664	3.40E-05	0.00E+00	6.64E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.97E-06	0.00E+00
4008	456762.2	3768044	0.000653	3.35E-05	0.00E+00	6.53E-04	3.35E-05	0.00E+00	1.96E-04	6.02E-06	0.00E+00	7.41E-05	1.94E-06	0.00E+00
4009	456762.3	3768054	0.000642	3.29E-05	0.00E+00	6.42E-04	3.29E-05	0.00E+00	1.92E-04	5.92E-06	0.00E+00	7.29E-05	1.91E-06	0.00E+00
4010	456762.4	3768063	0.000631	3.24E-05	0.00E+00	6.31E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.16E-05	1.88E-06	0.00E+00
4011	456762.4	3768073	0.000621	3.18E-05	0.00E+00	6.21E-04	3.18E-05	0.00E+00	1.86E-04	5.72E-06	0.00E+00	7.04E-05	1.85E-06	0.00E+00
4012	456762.5	3768083	0.00061	3.13E-05	0.00E+00	6.10E-04	3.13E-05	0.00E+00	1.83E-04	5.62E-06	0.00E+00	6.92E-05	1.82E-06	0.00E+00
4013	456762.6	3768092	0.0006	3.07E-05	0.00E+00	6.00E-04	3.07E-05	0.00E+00	1.80E-04	5.53E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
4014	456762.7	3768102	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
4015	456762.7	3768111	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
4016	456762.8	3768121	0.000568	2.91E-05	0.00E+00	5.68E-04	2.91E-05	0.00E+00	1.70E-04	5.24E-06	0.00E+00	6.45E-05	1.69E-06	0.00E+00
4017	456762.9	3768131	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
4018	456763	3768140	0.000547	2.81E-05	0.00E+00	5.47E-04	2.81E-05	0.00E+00	1.64E-04	5.04E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
4019	456763	3768150	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
4020	456763.1	3768160	0.000527	2.70E-05	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.86E-06	0.00E+00	5.98E-05	1.57E-06	0.00E+00
4021	456763.2	3768169	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
4022	456763.3	3768179	0.000507	2.60E-05	0.00E+00	5.07E-04	2.60E-05	0.00E+00	1.52E-04	4.67E-06	0.00E+00	5.75E-05	1.51E-06	0.00E+00
4023	456763.3	3768188	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
4024	456763.4	3768198	0.000488	2.50E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
4025	456763.5	3768208	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
4026	456763.6	3768217	0.000469	2.41E-05	0.00E+00	4.69E-04	2.41E-05	0.00E+00	1.41E-04	4.32E-06	0.00E+00	5.32E-05	1.40E-06	0.00E+00
4027	456763.6	3768227	0.00046	2.36E-05	0.00E+00	4.60E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.22E-05	1.37E-06	0.00E+00
4028	456763.7	3768236	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
4029	456725.8	3768026	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00

4030	456729.4	3768017	0.000626	3.21E-05	0.00E+00	6.26E-04	3.21E-05	0.00E+00	1.88E-04	5.77E-06	0.00E+00	7.11E-05	1.86E-06	0.00E+00
4031	456733	3768008	0.000641	3.29E-05	0.00E+00	6.41E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
4032	456736.6	3767999	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
4033	456740.3	3767990	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
4034	456743.9	3767981	0.000686	3.52E-05	0.00E+00	6.86E-04	3.52E-05	0.00E+00	2.06E-04	6.33E-06	0.00E+00	7.79E-05	2.04E-06	0.00E+00
4035	456747.5	3767973	0.000702	3.60E-05	0.00E+00	7.02E-04	3.60E-05	0.00E+00	2.10E-04	6.47E-06	0.00E+00	7.96E-05	2.09E-06	0.00E+00
4036	456751.1	3767964	0.000718	3.68E-05	0.00E+00	7.18E-04	3.68E-05	0.00E+00	2.15E-04	6.62E-06	0.00E+00	8.14E-05	2.14E-06	0.00E+00
4037	456754.7	3767955	0.000734	3.76E-05	0.00E+00	7.34E-04	3.76E-05	0.00E+00	2.20E-04	6.77E-06	0.00E+00	8.33E-05	2.18E-06	0.00E+00
4038	456758.4	3767946	0.00075	3.85E-05	0.00E+00	7.50E-04	3.85E-05	0.00E+00	2.25E-04	6.92E-06	0.00E+00	8.51E-05	2.23E-06	0.00E+00
4039	456762	3767937	0.000767	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
4040	456765.6	3767928	0.000783	4.02E-05	0.00E+00	7.83E-04	4.02E-05	0.00E+00	2.35E-04	7.22E-06	0.00E+00	8.89E-05	2.33E-06	0.00E+00
4041	456769.2	3767919	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.38E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
4042	456772.8	3767910	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.27E-05	2.43E-06	0.00E+00
4043	456776.5	3767901	0.000834	4.28E-05	0.00E+00	8.34E-04	4.28E-05	0.00E+00	2.50E-04	7.69E-06	0.00E+00	9.46E-05	2.48E-06	0.00E+00
4044	456780.1	3767892	0.000851	4.36E-05	0.00E+00	8.51E-04	4.36E-05	0.00E+00	2.55E-04	7.84E-06	0.00E+00	9.65E-05	2.53E-06	0.00E+00
4045	456783.7	3767884	0.000868	4.45E-05	0.00E+00	8.68E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.85E-05	2.58E-06	0.00E+00
4046	456787.3	3767875	0.000885	4.54E-05	0.00E+00	8.85E-04	4.54E-05	0.00E+00	2.65E-04	8.16E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
4047	456790.9	3767866	0.000902	4.62E-05	0.00E+00	9.02E-04	4.62E-05	0.00E+00	2.70E-04	8.31E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
4048	456794.6	3767857	0.000918	4.71E-05	0.00E+00	9.18E-04	4.71E-05	0.00E+00	2.75E-04	8.46E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
4049	456798.2	3767848	0.000935	4.79E-05	0.00E+00	9.35E-04	4.79E-05	0.00E+00	2.80E-04	8.61E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
4050	456801.8	3767839	0.000951	4.87E-05	0.00E+00	9.51E-04	4.87E-05	0.00E+00	2.85E-04	8.76E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
4051	456805.4	3767830	0.000967	4.96E-05	0.00E+00	9.67E-04	4.96E-05	0.00E+00	2.90E-04	8.91E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
4052	456809	3767821	0.000983	5.04E-05	0.00E+00	9.83E-04	5.04E-05	0.00E+00	2.95E-04	9.06E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
4053	456812.7	3767812	0.000999	5.12E-05	0.00E+00	9.99E-04	5.12E-05	0.00E+00	2.99E-04	9.21E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
4054	456816.3	3767804	0.001015	5.20E-05	0.00E+00	1.02E-03	5.20E-05	0.00E+00	3.04E-04	9.36E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
4055	456819.9	3767795	0.001031	5.28E-05	0.00E+00	1.03E-03	5.28E-05	0.00E+00	3.09E-04	9.50E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
4056	456823.5	3767786	0.001046	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.64E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
4057	456827.1	3767777	0.001061	5.44E-05	0.00E+00	1.06E-03	5.44E-05	0.00E+00	3.18E-04	9.78E-06	0.00E+00	1.20E-04	3.16E-06	0.00E+00
4058	456830.8	3767768	0.001076	5.51E-05	0.00E+00	1.08E-03	5.51E-05	0.00E+00	3.22E-04	9.91E-06	0.00E+00	1.22E-04	3.20E-06	0.00E+00
4059	456834.4	3767759	0.00109	5.59E-05	0.00E+00	1.09E-03	5.59E-05	0.00E+00	3.26E-04	1.00E-05	0.00E+00	1.24E-04	3.24E-06	0.00E+00
4060	456838	3767750	0.001103	5.66E-05	0.00E+00	1.10E-03	5.66E-05	0.00E+00	3.30E-04	1.02E-05	0.00E+00	1.25E-04	3.28E-06	0.00E+00
4061	456841.6	3767741	0.001117	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
4062	456845.2	3767732	0.00113	5.79E-05	0.00E+00	1.13E-03	5.79E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
4063	456848.9	3767724	0.001142	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.30E-04	3.40E-06	0.00E+00
4064	456852.5	3767715	0.001154	5.91E-05	0.00E+00	1.15E-03	5.91E-05	0.00E+00	3.46E-04	1.06E-05	0.00E+00	1.31E-04	3.43E-06	0.00E+00
4065	456856.1	3767706	0.001165	5.97E-05	0.00E+00	1.16E-03	5.97E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
4066	456859.7	3767697	0.001175	6.02E-05	0.00E+00	1.17E-03	6.02E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
4067	456863.3	3767688	0.001184	6.07E-05	0.00E+00	1.18E-03	6.07E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.34E-04	3.52E-06	0.00E+00
4068	456867	3767679	0.001194	6.12E-05	0.00E+00	1.19E-03	6.12E-05	0.00E+00	3.58E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
4069	456870.6	3767670	0.001203	6.17E-05	0.00E+00	1.20E-03	6.17E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.58E-06	0.00E+00
4070	456874.2	3767661	0.001211	6.21E-05	0.00E+00	1.21E-03	6.21E-05	0.00E+00	3.63E-04	1.12E-05	0.00E+00	1.37E-04	3.60E-06	0.00E+00
4071	456877.8	3767652	0.001219	6.25E-05	0.00E+00	1.22E-03	6.25E-05	0.00E+00	3.65E-04	1.12E-05	0.00E+00	1.38E-04	3.63E-06	0.00E+00
4072	456881.4	3767643	0.001227	6.29E-05	0.00E+00	1.23E-03	6.29E-05	0.00E+00	3.67E-04	1.13E-05	0.00E+00	1.39E-04	3.65E-06	0.00E+00
4073	456885.1	3767635	0.001233	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
4074	456888.7	3767626	0.001239	6.35E-05	0.00E+00	1.24E-03	6.35E-05	0.00E+00	3.71E-04	1.14E-05	0.00E+00	1.41E-04	3.69E-06	0.00E+00
4075	456722.2	3768035	0.000598	3.06E-05	0.00E+00	5.98E-04	3.06E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.78E-05	1.78E-06	0.00E+00
4076	456722.2	3768044	0.000588	3.02E-05	0.00E+00	5.88E-04	3.02E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
4077	456722.3	3768054	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
4078	456722.4	3768064	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.70E-06	0.00E+00
4079	456722.4	3768073	0.00056	2.87E-05	0.00E+00	5.60E-04	2.87E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.36E-05	1.67E-06	0.00E+00
4080	456722.5	3768083	0.000551	2.83E-05	0.00E+00	5.51E-04	2.83E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
4081	456722.6	3768093	0.000542	2.78E-05	0.00E+00	5.42E-04	2.78E-05	0.00E+00	1.62E-04	5.00E-06	0.00E+00	6.15E-05	1.61E-06	0.00E+00
4082	456722.7	3768102	0.000533	2.73E-05	0.00E+00	5.33E-04	2.73E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.05E-05	1.59E-06	0.00E+00
4083	456722.7	3768112	0.000524	2.69E-05	0.00E+00	5.24E-04	2.69E-05	0.00E+00	1.57E-04	4.83E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
4084	456722.8	3768121	0.000515	2.64E-05	0.00E+00	5.15E-04	2.64E-05	0.00E+00	1.54E-04	4.75E-06	0.00E+00	5.85E-05	1.53E-06	0.00E+00
4085	456722.9	3768131	0.000506	2.60E-05	0.00E+00	5.06E-04	2.60E-05	0.00E+00	1.52E-04	4.67E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
4086	456723	3768141	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
4087	456723	3768150	0.000489	2.50E-05	0.00E+00	4.89E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
4088	456723.1	3768160	0.00048	2.46E-05	0.00E+00	4.80E-04	2.46E-05	0.00E+00	1.44E-04	4.42E-06	0.00E+00	5.44E-05	1.43E-06	0.00E+00
4089	456723.2	3768169	0.000471	2.42E-05	0.00E+00	4.71E-04	2.42E-05	0.00E+00	1.41E-04	4.34E-06	0.00E+00	5.35E-05	1.40E-06	0.00E+00
4090	456723.3	3768179	0.000463	2.37E-05	0.00E+00	4.63E-04	2.37E-05	0.00E+00	1.39E-04	4.27E-06	0.00E+00	5.25E-05	1.38E-06	0.00E+00
4091	456723.3	3768189	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
4092	456723.4	3768198	0.000446	2.29E-05	0.00E+00	4.46E-04	2.29E-05	0.00E+00	1.34E-04	4.11E-06	0.00E+00	5.06E-05	1.33E-06	0.00E+00
4093	456723.5	3768208	0.000438	2.25E-05	0.00E+00	4.38E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.97E-05	1.30E-06	0.00E+00
4094	456723.6	3768218	0.00043	2.20E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
4095	456723.6	3768227	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.79E-05	1.26E-06	0.00E+00
4096	456723.7	3768237	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.70E-05	1.23E-06	0.00E+00
4097	456685.7	3768026	0.000553	2.84E-05	0.00E+00	5.53E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.28E-05	1.65E-06	0.00E+00
4098	456689.3	3768018	0.000566	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.69E-04	5.21E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
4099	456692.8	3768009	0.000578	2.96E-05	0.00E+00	5.78E-04	2.96E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
4100	456696.4	3768000	0.000591	3.03E-05	0.00E+00	5.91E-04	3.03E-05	0.00E+00	1.77E-04	5.45E-06	0.00E+00	6.70E-05	1.76E-06	0.00E+00
4101	456700	3767991	0.000604	3.09E-05	0.00E+00	6.04E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.85E-05	1.80E-06	0.00E+00
4102	456703.5	3767983	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.00E-05	1.84E-06	0.00E+00
4103	456707.1	3767974	0.00063	3.23E-05	0.00E+00	6.30E-04	3.23E-05	0.00E+00	1.89E-04	5.81E-06	0.00E+00	7.15E-05	1.88E-06	0.00E+00
4104	456710.7	3767965	0.000644	3.30E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.93E-06	0.00E+00	7.30E-05	1.92E-06	0.00E+00
4105	456714.2	3767956	0.000657	3.37E-05	0.00E+00	6.57E-04	3.37E-05	0.00E+00	1.97E-04	6.06E-06	0.00E+00	7.46E-05	1.96E-06	0.00E+00
4106	456717.8	3767948	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.62E-05	2.00E-06	0.00E+00
4107	456721.4	3767939	0.000685	3.51E-05	0.00E+00	6.85E-04	3.51E-05	0.00E+00	2.05E-04	6.32E-06	0.00E+00	7.78E-05	2.04E-06	0.00E+00
4108	456724.9	3767930	0.000699	3.59E-05	0.00E+00	6.99E-04	3.59E-05	0.00E+00	2.10E-04	6.45E-06	0.00E+00	7.94E-05	2.08E-06	0.00E+00
4109	456728.5	3767921	0.000714	3.66E-05	0.00E+00	7.14E-04	3.66E-05	0.00E+00	2.14E-04	6.58E-06	0.00E+00	8.10E-05	2.12E-06	0.00E+00
4110	456732.1	3767913	0.000728	3.73E-05	0.00E+00	7.28E-04	3.73E-05	0.00E+00	2.18E-04	6.71E-06	0.00E+00	8.26E-05	2.17E-06	0.00E+00
4111	456735.6	3767904	0.000742	3.81E-05	0.00E+00	7.42E-04	3.81E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
4112	456739.2	3767895	0.000757	3.88E-05	0.00E+00	7.57E-04	3.88E-05	0.00E+00	2.27E-04	6.98E-06	0.00E+00	8.59E-05	2.25E-06	0.00E+00
4113	456742.7	3767886	0.000771	3.95E-05	0.00E+00	7.71E-04	3.95E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
4114	456746.3	3767877	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.92E-05	2.34E-06	0.00E+00
4115	456749.9	3767869	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.38E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
4116	456753.4	3767860	0.000815	4.18E-05	0.00E+00	8.15E-04	4.18E-05	0.00E+00	2.44E-04	7.51E-06	0.00E+00	9.25E-05	2.43E-06	0.00E+00
4117	456757	3767851	0.00083	4.25E-05	0.00E+00	8.30E-04	4.25E-05	0.00E+00	2.48E-04	7.65E-06	0.00E+00	9.41E-05	2.47E-06	0.00E+00
4118	456760.6	3767842	0.000844	4.33E-05	0.00E+00	8.44E-04	4.33E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.58E-05	2.51E-06	0.00E+00
4119	456764.1	3767834	0.000859	4.40E-05	0.00E+00	8.59E-04	4.40E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.74E-05	2.56E-06	0.00E+00
4120	456767.7	3767825	0.000873	4.48E-05	0.00E+00	8.73E-04	4.48E-05	0.00E+00	2.62E-04	8.05E-06	0.00E+00	9.91E-05	2.60E-06	0.00E+00
4121	456771.3	3767816	0.000887	4.55E-05	0.00E+00	8.87E-04	4.55E-05	0.00E+00	2.66E-04	8.18E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
4122	456774.8	3767807	0.000902	4.62E-05	0.00E+00	9.02E-04	4.62E-05	0.00E+00	2.70E-04	8.31E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
4123	456778.4	3767799	0.000916	4.69E-05	0.00E+00	9.16E-04	4.69E-05	0.00E+00	2.74E-04	8.44E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
4124	456782	3767790	0.000929	4.77E-05	0.00E+00	9.29E-04	4.77E-05	0.00E+00	2.78E-04	8.57E-06	0.00E+00	1.05E-04	2.77E-06	0.00E+00
4125	456785.5	3767781	0.000943	4.84E-05	0.00E+00	9.43E-04	4.84E-05	0.00E+00	2.82E-04	8.69E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00

4126	456789.1	3767772	0.000956	4.90E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.82E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
4127	456792.6	3767764	0.00097	4.97E-05	0.00E+00	9.70E-04	4.97E-05	0.00E+00	2.90E-04	8.94E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
4128	456796.2	3767755	0.000983	5.04E-05	0.00E+00	9.83E-04	5.04E-05	0.00E+00	2.94E-04	9.06E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
4129	456799.8	3767746	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
4130	456803.3	3767737	0.001007	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.02E-04	9.28E-06	0.00E+00	1.14E-04	3.00E-06	0.00E+00
4131	456806.9	3767729	0.001018	5.22E-05	0.00E+00	1.02E-03	5.22E-05	0.00E+00	3.05E-04	9.39E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
4132	456810.5	3767720	0.001029	5.28E-05	0.00E+00	1.03E-03	5.28E-05	0.00E+00	3.08E-04	9.49E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
4133	456814	3767711	0.00104	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.12E-04	9.59E-06	0.00E+00	1.18E-04	3.10E-06	0.00E+00
4134	456817.6	3767702	0.001051	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.69E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
4135	456821.2	3767694	0.001062	5.44E-05	0.00E+00	1.06E-03	5.44E-05	0.00E+00	3.18E-04	9.79E-06	0.00E+00	1.20E-04	3.16E-06	0.00E+00
4136	456824.7	3767685	0.001072	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.88E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
4137	456828.3	3767676	0.001081	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.24E-04	9.97E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
4138	456831.9	3767667	0.00109	5.59E-05	0.00E+00	1.09E-03	5.59E-05	0.00E+00	3.27E-04	1.00E-05	0.00E+00	1.24E-04	3.24E-06	0.00E+00
4139	456835.4	3767659	0.001099	5.63E-05	0.00E+00	1.10E-03	5.63E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
4140	456839	3767650	0.001107	5.67E-05	0.00E+00	1.11E-03	5.67E-05	0.00E+00	3.31E-04	1.02E-05	0.00E+00	1.26E-04	3.29E-06	0.00E+00
4141	456842.6	3767641	0.001114	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.26E-04	3.32E-06	0.00E+00
4142	456846.1	3767632	0.001122	5.75E-05	0.00E+00	1.12E-03	5.75E-05	0.00E+00	3.36E-04	1.03E-05	0.00E+00	1.27E-04	3.34E-06	0.00E+00
4143	456849.7	3767624	0.001128	5.78E-05	0.00E+00	1.13E-03	5.78E-05	0.00E+00	3.38E-04	1.04E-05	0.00E+00	1.28E-04	3.36E-06	0.00E+00
4144	456853.2	3767615	0.001134	5.81E-05	0.00E+00	1.13E-03	5.81E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.37E-06	0.00E+00
4145	456682.2	3768035	0.000541	2.78E-05	0.00E+00	5.41E-04	2.78E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
4146	456682.2	3768045	0.000533	2.73E-05	0.00E+00	5.33E-04	2.73E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.05E-05	1.59E-06	0.00E+00
4147	456682.3	3768054	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.96E-05	1.56E-06	0.00E+00
4148	456682.4	3768064	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
4149	456682.4	3768074	0.000509	2.61E-05	0.00E+00	5.09E-04	2.61E-05	0.00E+00	1.53E-04	4.69E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
4150	456682.5	3768083	0.000501	2.57E-05	0.00E+00	5.01E-04	2.57E-05	0.00E+00	1.50E-04	4.62E-06	0.00E+00	5.69E-05	1.49E-06	0.00E+00
4151	456682.6	3768093	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
4152	456682.7	3768102	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.51E-05	1.44E-06	0.00E+00
4153	456682.7	3768112	0.000477	2.45E-05	0.00E+00	4.77E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.42E-05	1.42E-06	0.00E+00
4154	456682.8	3768122	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
4155	456682.9	3768131	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.38E-06	0.00E+00
4156	456683	3768141	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
4157	456683	3768151	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.07E-05	1.33E-06	0.00E+00
4158	456683.1	3768160	0.000439	2.25E-05	0.00E+00	4.39E-04	2.25E-05	0.00E+00	1.32E-04	4.05E-06	0.00E+00	4.98E-05	1.31E-06	0.00E+00
4159	456683.2	3768170	0.000432	2.21E-05	0.00E+00	4.32E-04	2.21E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.28E-06	0.00E+00
4160	456683.3	3768179	0.000424	2.18E-05	0.00E+00	4.24E-04	2.18E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
4161	456683.3	3768189	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
4162	456683.4	3768199	0.00041	2.10E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
4163	456683.5	3768208	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.71E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
4164	456683.6	3768218	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
4165	456683.6	3768227	0.000389	1.99E-05	0.00E+00	3.89E-04	1.99E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.41E-05	1.16E-06	0.00E+00
4166	456683.7	3768237	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.34E-05	1.14E-06	0.00E+00
4167	456645.7	3768027	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
4168	456649.3	3768018	0.000514	2.64E-05	0.00E+00	5.14E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
4169	456652.9	3768009	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.96E-05	1.56E-06	0.00E+00
4170	456656.5	3768000	0.000536	2.75E-05	0.00E+00	5.36E-04	2.75E-05	0.00E+00	1.61E-04	4.94E-06	0.00E+00	6.08E-05	1.60E-06	0.00E+00
4171	456660.1	3767991	0.000548	2.81E-05	0.00E+00	5.48E-04	2.81E-05	0.00E+00	1.64E-04	5.05E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
4172	456663.6	3767983	0.000559	2.87E-05	0.00E+00	5.59E-04	2.87E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
4173	456667.2	3767974	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
4174	456670.8	3767965	0.000582	2.99E-05	0.00E+00	5.82E-04	2.99E-05	0.00E+00	1.74E-04	5.37E-06	0.00E+00	6.61E-05	1.73E-06	0.00E+00
4175	456674.4	3767956	0.000594	3.05E-05	0.00E+00	5.94E-04	3.05E-05	0.00E+00	1.78E-04	5.48E-06	0.00E+00	6.74E-05	1.77E-06	0.00E+00
4176	456678	3767947	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.80E-06	0.00E+00
4177	456681.5	3767939	0.000619	3.17E-05	0.00E+00	6.19E-04	3.17E-05	0.00E+00	1.85E-04	5.70E-06	0.00E+00	7.02E-05	1.84E-06	0.00E+00
4178	456685.1	3767930	0.000631	3.23E-05	0.00E+00	6.31E-04	3.23E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.16E-05	1.88E-06	0.00E+00
4179	456688.7	3767921	0.000644	3.30E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.93E-06	0.00E+00	7.30E-05	1.91E-06	0.00E+00
4180	456692.3	3767912	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
4181	456695.9	3767903	0.000669	3.43E-05	0.00E+00	6.69E-04	3.43E-05	0.00E+00	2.00E-04	6.17E-06	0.00E+00	7.59E-05	1.99E-06	0.00E+00
4182	456699.4	3767895	0.000682	3.50E-05	0.00E+00	6.82E-04	3.50E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.74E-05	2.03E-06	0.00E+00
4183	456703	3767886	0.000695	3.56E-05	0.00E+00	6.95E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
4184	456706.6	3767877	0.000708	3.63E-05	0.00E+00	7.08E-04	3.63E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.03E-05	2.11E-06	0.00E+00
4185	456710.2	3767868	0.000721	3.69E-05	0.00E+00	7.21E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.18E-05	2.14E-06	0.00E+00
4186	456713.8	3767859	0.000734	3.76E-05	0.00E+00	7.34E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.32E-05	2.18E-06	0.00E+00
4187	456717.3	3767851	0.000747	3.83E-05	0.00E+00	7.47E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
4188	456720.9	3767842	0.00076	3.90E-05	0.00E+00	7.60E-04	3.90E-05	0.00E+00	2.28E-04	7.00E-06	0.00E+00	8.62E-05	2.26E-06	0.00E+00
4189	456724.5	3767833	0.000773	3.96E-05	0.00E+00	7.73E-04	3.96E-05	0.00E+00	2.31E-04	7.12E-06	0.00E+00	8.77E-05	2.30E-06	0.00E+00
4190	456728.1	3767824	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.91E-05	2.34E-06	0.00E+00
4191	456731.7	3767815	0.000799	4.09E-05	0.00E+00	7.99E-04	4.09E-05	0.00E+00	2.39E-04	7.36E-06	0.00E+00	9.06E-05	2.38E-06	0.00E+00
4192	456735.3	3767807	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.21E-05	2.41E-06	0.00E+00
4193	456738.8	3767798	0.000824	4.22E-05	0.00E+00	8.24E-04	4.22E-05	0.00E+00	2.47E-04	7.60E-06	0.00E+00	9.35E-05	2.45E-06	0.00E+00
4194	456742.4	3767789	0.000836	4.29E-05	0.00E+00	8.36E-04	4.29E-05	0.00E+00	2.51E-04	7.71E-06	0.00E+00	9.49E-05	2.49E-06	0.00E+00
4195	456746	3767780	0.000849	4.35E-05	0.00E+00	8.49E-04	4.35E-05	0.00E+00	2.54E-04	7.82E-06	0.00E+00	9.63E-05	2.53E-06	0.00E+00
4196	456749.6	3767772	0.000861	4.41E-05	0.00E+00	8.61E-04	4.41E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
4197	456753.2	3767763	0.000873	4.48E-05	0.00E+00	8.73E-04	4.48E-05	0.00E+00	2.61E-04	8.05E-06	0.00E+00	9.90E-05	2.60E-06	0.00E+00
4198	456756.7	3767754	0.000885	4.53E-05	0.00E+00	8.85E-04	4.53E-05	0.00E+00	2.65E-04	8.15E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
4199	456760.3	3767745	0.000896	4.59E-05	0.00E+00	8.96E-04	4.59E-05	0.00E+00	2.68E-04	8.26E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
4200	456763.9	3767736	0.000908	4.65E-05	0.00E+00	9.08E-04	4.65E-05	0.00E+00	2.72E-04	8.37E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
4201	456767.5	3767728	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
4202	456771.1	3767719	0.00093	4.77E-05	0.00E+00	9.30E-04	4.77E-05	0.00E+00	2.78E-04	8.57E-06	0.00E+00	1.05E-04	2.77E-06	0.00E+00
4203	456774.6	3767710	0.00094	4.82E-05	0.00E+00	9.40E-04	4.82E-05	0.00E+00	2.82E-04	8.67E-06	0.00E+00	1.07E-04	2.80E-06	0.00E+00
4204	456778.2	3767701	0.000951	4.87E-05	0.00E+00	9.51E-04	4.87E-05	0.00E+00	2.85E-04	8.76E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
4205	456781.8	3767692	0.000961	4.93E-05	0.00E+00	9.61E-04	4.93E-05	0.00E+00	2.88E-04	8.86E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
4206	456785.4	3767684	0.000971	4.98E-05	0.00E+00	9.71E-04	4.98E-05	0.00E+00	2.91E-04	8.95E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
4207	456789	3767675	0.00098	5.02E-05	0.00E+00	9.80E-04	5.02E-05	0.00E+00	2.93E-04	9.03E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
4208	456792.5	3767666	0.000989	5.07E-05	0.00E+00	9.89E-04	5.07E-05	0.00E+00	2.96E-04	9.12E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
4209	456796.1	3767657	0.000998	5.11E-05	0.00E+00	9.98E-04	5.11E-05	0.00E+00	2.99E-04	9.20E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
4210	456799.7	3767648	0.001006	5.16E-05	0.00E+00	1.01E-03	5.16E-05	0.00E+00	3.01E-04	9.27E-06	0.00E+00	1.14E-04	2.99E-06	0.00E+00
4211	456803.3	3767640	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.34E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
4212	456806.9	3767631	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.06E-04	9.40E-06	0.00E+00	1.16E-04	3.04E-06	0.00E+00
4213	456810.4	3767622	0.001027	5.27E-05	0.00E+00	1.03E-03	5.27E-05	0.00E+00	3.08E-04	9.47E-06	0.00E+00	1.17E-04	3.06E-06	0.00E+00
4214	456814	3767613	0.001034	5.30E-05	0.00E+00	1.03E-03	5.30E-05	0.00E+00	3.10E-04	9.53E-06	0.00E+00	1.17E-04	3.08E-06	0.00E+00
4215	456642.2	3768035	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
4216	456642.2	3768045	0.000486	2.49E-05	0.00E+00	4.86E-04	2.49E-05	0.00E+00	1.45E-04	4.48E-06	0.00E+00	5.51E-05	1.45E-06	0.00E+00
4217	456642.3	3768055	0.000479	2.46E-05	0.00E+00	4.79E-04	2.46E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.43E-06	0.00E+00
4218	456642.4	3768064	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.40E-06	0.00E+00
4219	456642.5	3768074	0.000465	2.38E-05	0.00E+00	4.65E-04	2.38E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.38E-06	0.00E+00
4220	456642.5	3768084	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
4221	456642.6	3768093	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00

4222	456642.7	3768103	0.000444	2.28E-05	0.00E+00	4.44E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.04E-05	1.32E-06	0.00E+00
4223	456642.7	3768112	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
4224	456642.8	3768122	0.000431	2.21E-05	0.00E+00	4.31E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
4225	456642.9	3768132	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
4226	456643	3768141	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
4227	456643	3768151	0.000411	2.10E-05	0.00E+00	4.11E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.66E-05	1.22E-06	0.00E+00
4228	456643.1	3768160	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.58E-05	1.20E-06	0.00E+00
4229	456643.2	3768170	0.000397	2.04E-05	0.00E+00	3.97E-04	2.04E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
4230	456643.3	3768180	0.000391	2.00E-05	0.00E+00	3.91E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
4231	456643.3	3768189	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
4232	456643.4	3768199	0.000378	1.94E-05	0.00E+00	3.78E-04	1.94E-05	0.00E+00	1.13E-04	3.49E-06	0.00E+00	4.29E-05	1.13E-06	0.00E+00
4233	456643.5	3768209	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
4234	456643.6	3768218	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.37E-06	0.00E+00	4.15E-05	1.09E-06	0.00E+00
4235	456643.6	3768228	0.00036	1.85E-05	0.00E+00	3.60E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.08E-05	1.07E-06	0.00E+00
4236	456643.7	3768237	0.000354	1.82E-05	0.00E+00	3.54E-04	1.82E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.02E-05	1.05E-06	0.00E+00
4237	456605.8	3768027	0.000461	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
4238	456609.3	3768018	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
4239	456612.9	3768009	0.00048	2.46E-05	0.00E+00	4.80E-04	2.46E-05	0.00E+00	1.44E-04	4.42E-06	0.00E+00	5.44E-05	1.43E-06	0.00E+00
4240	456616.5	3768000	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.47E-04	4.51E-06	0.00E+00	5.55E-05	1.46E-06	0.00E+00
4241	456620.1	3767992	0.000499	2.56E-05	0.00E+00	4.99E-04	2.56E-05	0.00E+00	1.50E-04	4.60E-06	0.00E+00	5.66E-05	1.49E-06	0.00E+00
4242	456623.7	3767983	0.000509	2.61E-05	0.00E+00	5.09E-04	2.61E-05	0.00E+00	1.53E-04	4.69E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
4243	456627.3	3767974	0.00052	2.66E-05	0.00E+00	5.20E-04	2.66E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.89E-05	1.55E-06	0.00E+00
4244	456630.9	3767965	0.00053	2.72E-05	0.00E+00	5.30E-04	2.72E-05	0.00E+00	1.59E-04	4.88E-06	0.00E+00	6.01E-05	1.58E-06	0.00E+00
4245	456634.5	3767956	0.00054	2.77E-05	0.00E+00	5.40E-04	2.77E-05	0.00E+00	1.62E-04	4.98E-06	0.00E+00	6.13E-05	1.61E-06	0.00E+00
4246	456638.1	3767947	0.000551	2.82E-05	0.00E+00	5.51E-04	2.82E-05	0.00E+00	1.65E-04	5.08E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
4247	456641.7	3767939	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
4248	456645.3	3767930	0.000573	2.94E-05	0.00E+00	5.73E-04	2.94E-05	0.00E+00	1.72E-04	5.28E-06	0.00E+00	6.50E-05	1.70E-06	0.00E+00
4249	456648.9	3767921	0.000584	2.99E-05	0.00E+00	5.84E-04	2.99E-05	0.00E+00	1.75E-04	5.38E-06	0.00E+00	6.62E-05	1.74E-06	0.00E+00
4250	456652.5	3767912	0.000595	3.05E-05	0.00E+00	5.95E-04	3.05E-05	0.00E+00	1.78E-04	5.49E-06	0.00E+00	6.75E-05	1.77E-06	0.00E+00
4251	456656.1	3767903	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.80E-06	0.00E+00
4252	456659.7	3767894	0.000618	3.17E-05	0.00E+00	6.18E-04	3.17E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
4253	456663.3	3767886	0.000629	3.23E-05	0.00E+00	6.29E-04	3.23E-05	0.00E+00	1.88E-04	5.80E-06	0.00E+00	7.14E-05	1.87E-06	0.00E+00
4254	456666.9	3767877	0.000641	3.28E-05	0.00E+00	6.41E-04	3.28E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
4255	456670.5	3767868	0.000652	3.34E-05	0.00E+00	6.52E-04	3.34E-05	0.00E+00	1.95E-04	6.01E-06	0.00E+00	7.40E-05	1.94E-06	0.00E+00
4256	456674.1	3767859	0.000664	3.40E-05	0.00E+00	6.64E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.98E-06	0.00E+00
4257	456677.7	3767850	0.000675	3.46E-05	0.00E+00	6.75E-04	3.46E-05	0.00E+00	2.02E-04	6.22E-06	0.00E+00	7.66E-05	2.01E-06	0.00E+00
4258	456681.2	3767841	0.000687	3.52E-05	0.00E+00	6.87E-04	3.52E-05	0.00E+00	2.06E-04	6.33E-06	0.00E+00	7.79E-05	2.04E-06	0.00E+00
4259	456684.8	3767833	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
4260	456688.4	3767824	0.00071	3.64E-05	0.00E+00	7.10E-04	3.64E-05	0.00E+00	2.13E-04	6.54E-06	0.00E+00	8.05E-05	2.11E-06	0.00E+00
4261	456692	3767815	0.000721	3.70E-05	0.00E+00	7.21E-04	3.70E-05	0.00E+00	2.16E-04	6.65E-06	0.00E+00	8.18E-05	2.15E-06	0.00E+00
4262	456695.6	3767806	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00
4263	456699.2	3767797	0.000744	3.82E-05	0.00E+00	7.44E-04	3.82E-05	0.00E+00	2.23E-04	6.86E-06	0.00E+00	8.44E-05	2.21E-06	0.00E+00
4264	456702.8	3767788	0.000756	3.87E-05	0.00E+00	7.56E-04	3.87E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.57E-05	2.25E-06	0.00E+00
4265	456706.4	3767780	0.000767	3.93E-05	0.00E+00	7.67E-04	3.93E-05	0.00E+00	2.30E-04	7.07E-06	0.00E+00	8.70E-05	2.28E-06	0.00E+00
4266	456710	3767771	0.000778	3.99E-05	0.00E+00	7.78E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.83E-05	2.32E-06	0.00E+00
4267	456713.6	3767762	0.000789	4.05E-05	0.00E+00	7.89E-04	4.05E-05	0.00E+00	2.36E-04	7.28E-06	0.00E+00	8.95E-05	2.35E-06	0.00E+00
4268	456717.2	3767753	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.38E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
4269	456720.8	3767744	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.20E-05	2.41E-06	0.00E+00
4270	456724.4	3767735	0.000822	4.21E-05	0.00E+00	8.22E-04	4.21E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.32E-05	2.45E-06	0.00E+00
4271	456728	3767727	0.000832	4.27E-05	0.00E+00	8.32E-04	4.27E-05	0.00E+00	2.49E-04	7.67E-06	0.00E+00	9.44E-05	2.48E-06	0.00E+00
4272	456731.6	3767718	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
4273	456735.2	3767709	0.000853	4.37E-05	0.00E+00	8.53E-04	4.37E-05	0.00E+00	2.55E-04	7.86E-06	0.00E+00	9.67E-05	2.54E-06	0.00E+00
4274	456738.8	3767700	0.000862	4.42E-05	0.00E+00	8.62E-04	4.42E-05	0.00E+00	2.58E-04	7.95E-06	0.00E+00	9.79E-05	2.57E-06	0.00E+00
4275	456742.4	3767691	0.000872	4.47E-05	0.00E+00	8.72E-04	4.47E-05	0.00E+00	2.61E-04	8.04E-06	0.00E+00	9.89E-05	2.60E-06	0.00E+00
4276	456746	3767682	0.000881	4.52E-05	0.00E+00	8.81E-04	4.52E-05	0.00E+00	2.64E-04	8.12E-06	0.00E+00	1.00E-04	2.62E-06	0.00E+00
4277	456749.6	3767674	0.00089	4.56E-05	0.00E+00	8.90E-04	4.56E-05	0.00E+00	2.67E-04	8.20E-06	0.00E+00	1.01E-04	2.65E-06	0.00E+00
4278	456753.2	3767665	0.000898	4.61E-05	0.00E+00	8.98E-04	4.61E-05	0.00E+00	2.69E-04	8.28E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
4279	456756.7	3767656	0.000907	4.65E-05	0.00E+00	9.07E-04	4.65E-05	0.00E+00	2.72E-04	8.36E-06	0.00E+00	1.03E-04	2.70E-06	0.00E+00
4280	456760.3	3767647	0.000915	4.69E-05	0.00E+00	9.15E-04	4.69E-05	0.00E+00	2.74E-04	8.43E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
4281	456763.9	3767638	0.000923	4.73E-05	0.00E+00	9.23E-04	4.73E-05	0.00E+00	2.76E-04	8.51E-06	0.00E+00	1.05E-04	2.75E-06	0.00E+00
4282	456767.5	3767629	0.00093	4.77E-05	0.00E+00	9.30E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
4283	456771.1	3767621	0.000938	4.81E-05	0.00E+00	9.38E-04	4.81E-05	0.00E+00	2.81E-04	8.64E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
4284	456602.2	3768036	0.000451	2.31E-05	0.00E+00	4.51E-04	2.31E-05	0.00E+00	1.35E-04	4.16E-06	0.00E+00	5.12E-05	1.34E-06	0.00E+00
4285	456602.2	3768045	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.05E-05	1.32E-06	0.00E+00
4286	456602.3	3768055	0.000439	2.25E-05	0.00E+00	4.39E-04	2.25E-05	0.00E+00	1.31E-04	4.05E-06	0.00E+00	4.98E-05	1.31E-06	0.00E+00
4287	456602.4	3768065	0.000433	2.22E-05	0.00E+00	4.33E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.91E-05	1.29E-06	0.00E+00
4288	456602.5	3768074	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.93E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
4289	456602.5	3768084	0.00042	2.16E-05	0.00E+00	4.20E-04	2.16E-05	0.00E+00	1.26E-04	3.88E-06	0.00E+00	4.77E-05	1.25E-06	0.00E+00
4290	456602.6	3768093	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.70E-05	1.23E-06	0.00E+00
4291	456602.7	3768103	0.000408	2.09E-05	0.00E+00	4.08E-04	2.09E-05	0.00E+00	1.22E-04	3.77E-06	0.00E+00	4.63E-05	1.22E-06	0.00E+00
4292	456602.7	3768113	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.21E-04	3.71E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
4293	456602.8	3768122	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
4294	456602.9	3768132	0.000391	2.00E-05	0.00E+00	3.91E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
4295	456603	3768142	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
4296	456603	3768151	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.13E-04	3.49E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
4297	456603.1	3768161	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.23E-05	1.11E-06	0.00E+00
4298	456603.2	3768170	0.000367	1.88E-05	0.00E+00	3.67E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00
4299	456603.3	3768180	0.000362	1.85E-05	0.00E+00	3.62E-04	1.85E-05	0.00E+00	1.08E-04	3.33E-06	0.00E+00	4.10E-05	1.08E-06	0.00E+00
4300	456603.3	3768190	0.000356	1.83E-05	0.00E+00	3.56E-04	1.83E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
4301	456603.4	3768199	0.000351	1.80E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
4302	456603.5	3768209	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
4303	456603.6	3768218	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
4304	456603.6	3768228	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.95E-07	0.00E+00
4305	456603.7	3768238	0.000329	1.69E-05	0.00E+00	3.29E-04	1.69E-05	0.00E+00	9.86E-05	3.03E-06	0.00E+00	3.73E-05	9.79E-07	0.00E+00
4306	456565.8	3768027	0.000423	2.17E-05	0.00E+00	4.23E-04	2.17E-05	0.00E+00	1.27E-04	3.90E-06	0.00E+00	4.80E-05	1.26E-06	0.00E+00
4307	456569.4	3768018	0.000432	2.21E-05	0.00E+00	4.32E-04	2.21E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.28E-06	0.00E+00
4308	456573	3768009	0.00044	2.26E-05	0.00E+00	4.40E-04	2.26E-05	0.00E+00	1.32E-04	4.06E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
4309	456576.6	3768001	0.000449	2.30E-05	0.00E+00	4.49E-04	2.30E-05	0.00E+00	1.34E-04	4.14E-06	0.00E+00	5.09E-05	1.34E-06	0.00E+00
4310	456580.2	3767992	0.000457	2.34E-05	0.00E+00	4.57E-04	2.34E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.19E-05	1.36E-06	0.00E+00
4311	456583.8	3767983	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.40E-04	4.30E-06	0.00E+00	5.29E-05	1.39E-06	0.00E+00
4312	456587.4	3767974	0.000475	2.44E-05	0.00E+00	4.75E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.39E-05	1.41E-06	0.00E+00
4313	456591	3767965	0.000485	2.48E-05	0.00E+00	4.85E-04	2.48E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
4314	456594.6	3767956	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
4315	456598.2	3767947	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
4316	456601.8	3767939	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
4317	456605.5	3767930	0.000523	2.68E-05	0.00E+00	5.23E-04	2.68E-05	0.00E+00	1.57E-04	4.82E-06	0.00E+00	5.93E-05	1.56E-06	0.00E+00

4318	456609.1	3767921	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.91E-06	0.00E+00	6.04E-05	1.58E-06	0.00E+00
4319	456612.7	3767912	0.000542	2.78E-05	0.00E+00	5.42E-04	2.78E-05	0.00E+00	1.62E-04	5.00E-06	0.00E+00	6.15E-05	1.61E-06	0.00E+00
4320	456616.3	3767903	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
4321	456619.9	3767894	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.38E-05	1.67E-06	0.00E+00
4322	456623.5	3767885	0.000572	2.93E-05	0.00E+00	5.72E-04	2.93E-05	0.00E+00	1.71E-04	5.27E-06	0.00E+00	6.49E-05	1.70E-06	0.00E+00
4323	456627.1	3767876	0.000582	2.99E-05	0.00E+00	5.82E-04	2.99E-05	0.00E+00	1.74E-04	5.37E-06	0.00E+00	6.61E-05	1.73E-06	0.00E+00
4324	456630.7	3767868	0.000593	3.04E-05	0.00E+00	5.93E-04	3.04E-05	0.00E+00	1.77E-04	5.46E-06	0.00E+00	6.72E-05	1.76E-06	0.00E+00
4325	456634.3	3767859	0.000603	3.09E-05	0.00E+00	6.03E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.84E-05	1.79E-06	0.00E+00
4326	456637.9	3767850	0.000613	3.14E-05	0.00E+00	6.13E-04	3.14E-05	0.00E+00	1.84E-04	5.65E-06	0.00E+00	6.96E-05	1.82E-06	0.00E+00
4327	456641.5	3767841	0.000624	3.20E-05	0.00E+00	6.24E-04	3.20E-05	0.00E+00	1.87E-04	5.75E-06	0.00E+00	7.08E-05	1.86E-06	0.00E+00
4328	456645.1	3767832	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.19E-05	1.89E-06	0.00E+00
4329	456648.8	3767823	0.000645	3.30E-05	0.00E+00	6.45E-04	3.30E-05	0.00E+00	1.93E-04	5.94E-06	0.00E+00	7.31E-05	1.92E-06	0.00E+00
4330	456652.4	3767814	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.43E-05	1.95E-06	0.00E+00
4331	456656	3767806	0.000665	3.41E-05	0.00E+00	6.65E-04	3.41E-05	0.00E+00	1.99E-04	6.13E-06	0.00E+00	7.55E-05	1.98E-06	0.00E+00
4332	456659.6	3767797	0.000676	3.46E-05	0.00E+00	6.76E-04	3.46E-05	0.00E+00	2.02E-04	6.23E-06	0.00E+00	7.67E-05	2.01E-06	0.00E+00
4333	456663.2	3767788	0.000686	3.52E-05	0.00E+00	6.86E-04	3.52E-05	0.00E+00	2.05E-04	6.32E-06	0.00E+00	7.78E-05	2.04E-06	0.00E+00
4334	456666.8	3767779	0.000696	3.57E-05	0.00E+00	6.96E-04	3.57E-05	0.00E+00	2.09E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
4335	456670.4	3767770	0.000707	3.62E-05	0.00E+00	7.07E-04	3.62E-05	0.00E+00	2.12E-04	6.51E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
4336	456674	3767761	0.000717	3.67E-05	0.00E+00	7.17E-04	3.67E-05	0.00E+00	2.15E-04	6.60E-06	0.00E+00	8.13E-05	2.13E-06	0.00E+00
4337	456677.6	3767752	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.18E-04	6.70E-06	0.00E+00	8.24E-05	2.16E-06	0.00E+00
4338	456681.2	3767743	0.000736	3.78E-05	0.00E+00	7.36E-04	3.78E-05	0.00E+00	2.21E-04	6.79E-06	0.00E+00	8.35E-05	2.19E-06	0.00E+00
4339	456684.8	3767735	0.000746	3.83E-05	0.00E+00	7.46E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
4340	456688.4	3767726	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
4341	456692.1	3767717	0.000766	3.93E-05	0.00E+00	7.66E-04	3.93E-05	0.00E+00	2.29E-04	7.06E-06	0.00E+00	8.69E-05	2.28E-06	0.00E+00
4342	456695.7	3767708	0.000775	3.97E-05	0.00E+00	7.75E-04	3.97E-05	0.00E+00	2.32E-04	7.15E-06	0.00E+00	8.80E-05	2.31E-06	0.00E+00
4343	456699.3	3767699	0.000784	4.02E-05	0.00E+00	7.84E-04	4.02E-05	0.00E+00	2.35E-04	7.23E-06	0.00E+00	8.90E-05	2.33E-06	0.00E+00
4344	456702.9	3767690	0.000793	4.07E-05	0.00E+00	7.93E-04	4.07E-05	0.00E+00	2.38E-04	7.31E-06	0.00E+00	9.00E-05	2.36E-06	0.00E+00
4345	456706.5	3767681	0.000802	4.11E-05	0.00E+00	8.02E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.10E-05	2.39E-06	0.00E+00
4346	456710.1	3767673	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.47E-06	0.00E+00	9.20E-05	2.41E-06	0.00E+00
4347	456713.7	3767664	0.000819	4.20E-05	0.00E+00	8.19E-04	4.20E-05	0.00E+00	2.45E-04	7.55E-06	0.00E+00	9.29E-05	2.44E-06	0.00E+00
4348	456717.3	3767655	0.000827	4.24E-05	0.00E+00	8.27E-04	4.24E-05	0.00E+00	2.48E-04	7.62E-06	0.00E+00	9.38E-05	2.46E-06	0.00E+00
4349	456720.9	3767646	0.000835	4.28E-05	0.00E+00	8.35E-04	4.28E-05	0.00E+00	2.50E-04	7.70E-06	0.00E+00	9.48E-05	2.49E-06	0.00E+00
4350	456724.5	3767637	0.000843	4.32E-05	0.00E+00	8.43E-04	4.32E-05	0.00E+00	2.52E-04	7.77E-06	0.00E+00	9.56E-05	2.51E-06	0.00E+00
4351	456728.1	3767628	0.00085	4.36E-05	0.00E+00	8.50E-04	4.36E-05	0.00E+00	2.55E-04	7.84E-06	0.00E+00	9.65E-05	2.53E-06	0.00E+00
4352	456731.7	3767619	0.000857	4.40E-05	0.00E+00	8.57E-04	4.40E-05	0.00E+00	2.57E-04	7.90E-06	0.00E+00	9.73E-05	2.55E-06	0.00E+00
4353	456562.2	3768036	0.000415	2.13E-05	0.00E+00	4.15E-04	2.13E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.71E-05	1.23E-06	0.00E+00
4354	456562.2	3768046	0.000409	2.10E-05	0.00E+00	4.09E-04	2.10E-05	0.00E+00	1.23E-04	3.77E-06	0.00E+00	4.64E-05	1.22E-06	0.00E+00
4355	456562.3	3768055	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.58E-05	1.20E-06	0.00E+00
4356	456562.4	3768065	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.52E-05	1.19E-06	0.00E+00
4357	456562.5	3768074	0.000393	2.01E-05	0.00E+00	3.93E-04	2.01E-05	0.00E+00	1.18E-04	3.62E-06	0.00E+00	4.46E-05	1.17E-06	0.00E+00
4358	456562.5	3768084	0.000388	1.99E-05	0.00E+00	3.88E-04	1.99E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.40E-05	1.15E-06	0.00E+00
4359	456562.6	3768094	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.15E-04	3.52E-06	0.00E+00	4.34E-05	1.14E-06	0.00E+00
4360	456562.7	3768103	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
4361	456562.7	3768113	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
4362	456562.8	3768123	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.16E-05	1.09E-06	0.00E+00
4363	456562.9	3768132	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.33E-06	0.00E+00	4.10E-05	1.07E-06	0.00E+00
4364	456563	3768142	0.000356	1.83E-05	0.00E+00	3.56E-04	1.83E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
4365	456563	3768151	0.000351	1.80E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
4366	456563.1	3768161	0.000346	1.77E-05	0.00E+00	3.46E-04	1.77E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
4367	456563.2	3768171	0.000341	1.75E-05	0.00E+00	3.41E-04	1.75E-05	0.00E+00	1.02E-04	3.14E-06	0.00E+00	3.87E-05	1.01E-06	0.00E+00
4368	456563.3	3768180	0.000336	1.72E-05	0.00E+00	3.36E-04	1.72E-05	0.00E+00	1.01E-04	3.10E-06	0.00E+00	3.81E-05	9.99E-07	0.00E+00
4369	456563.3	3768190	0.000331	1.70E-05	0.00E+00	3.31E-04	1.70E-05	0.00E+00	9.91E-05	3.05E-06	0.00E+00	3.75E-05	9.84E-07	0.00E+00
4370	456563.4	3768200	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.76E-05	3.00E-06	0.00E+00	3.70E-05	9.70E-07	0.00E+00
4371	456563.5	3768209	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.62E-05	2.96E-06	0.00E+00	3.64E-05	9.56E-07	0.00E+00
4372	456563.6	3768219	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.48E-05	2.92E-06	0.00E+00	3.59E-05	9.41E-07	0.00E+00
4373	456563.6	3768228	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.33E-05	2.87E-06	0.00E+00	3.54E-05	9.27E-07	0.00E+00
4374	456563.7	3768238	0.000307	1.57E-05	0.00E+00	3.07E-04	1.57E-05	0.00E+00	9.19E-05	2.83E-06	0.00E+00	3.48E-05	9.14E-07	0.00E+00
4375	456525.8	3768027	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
4376	456529.4	3768019	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
4377	456533	3768010	0.000405	2.08E-05	0.00E+00	4.05E-04	2.08E-05	0.00E+00	1.21E-04	3.74E-06	0.00E+00	4.60E-05	1.21E-06	0.00E+00
4378	456536.6	3768001	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
4379	456540.3	3767992	0.000421	2.16E-05	0.00E+00	4.21E-04	2.16E-05	0.00E+00	1.26E-04	3.88E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
4380	456543.9	3767983	0.000429	2.20E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.28E-04	3.95E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
4381	456547.5	3767974	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
4382	456551.1	3767965	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.05E-05	1.32E-06	0.00E+00
4383	456554.7	3767956	0.000453	2.32E-05	0.00E+00	4.53E-04	2.32E-05	0.00E+00	1.36E-04	4.18E-06	0.00E+00	5.14E-05	1.35E-06	0.00E+00
4384	456558.4	3767947	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00
4385	456562	3767939	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
4386	456565.6	3767930	0.000479	2.45E-05	0.00E+00	4.79E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
4387	456569.2	3767921	0.000487	2.50E-05	0.00E+00	4.87E-04	2.50E-05	0.00E+00	1.46E-04	4.49E-06	0.00E+00	5.53E-05	1.45E-06	0.00E+00
4388	456572.8	3767912	0.000496	2.54E-05	0.00E+00	4.96E-04	2.54E-05	0.00E+00	1.49E-04	4.57E-06	0.00E+00	5.63E-05	1.48E-06	0.00E+00
4389	456576.5	3767903	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
4390	456580.1	3767894	0.000514	2.63E-05	0.00E+00	5.14E-04	2.63E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
4391	456583.7	3767885	0.000523	2.68E-05	0.00E+00	5.23E-04	2.68E-05	0.00E+00	1.57E-04	4.82E-06	0.00E+00	5.93E-05	1.56E-06	0.00E+00
4392	456587.3	3767876	0.000532	2.73E-05	0.00E+00	5.32E-04	2.73E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.04E-05	1.58E-06	0.00E+00
4393	456590.9	3767867	0.000541	2.78E-05	0.00E+00	5.41E-04	2.78E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
4394	456594.6	3767858	0.00055	2.82E-05	0.00E+00	5.50E-04	2.82E-05	0.00E+00	1.65E-04	5.07E-06	0.00E+00	6.25E-05	1.64E-06	0.00E+00
4395	456598.2	3767850	0.00056	2.87E-05	0.00E+00	5.60E-04	2.87E-05	0.00E+00	1.68E-04	5.16E-06	0.00E+00	6.35E-05	1.67E-06	0.00E+00
4396	456601.8	3767841	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.70E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
4397	456605.4	3767832	0.000578	2.97E-05	0.00E+00	5.78E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
4398	456609	3767823	0.000588	3.01E-05	0.00E+00	5.88E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
4399	456612.7	3767814	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
4400	456616.3	3767805	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.80E-06	0.00E+00
4401	456619.9	3767796	0.000616	3.16E-05	0.00E+00	6.16E-04	3.16E-05	0.00E+00	1.84E-04	5.68E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
4402	456623.5	3767787	0.000625	3.20E-05	0.00E+00	6.25E-04	3.20E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.09E-05	1.86E-06	0.00E+00
4403	456627.1	3767778	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.20E-05	1.89E-06	0.00E+00
4404	456630.8	3767770	0.000644	3.30E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.93E-06	0.00E+00	7.30E-05	1.92E-06	0.00E+00
4405	456634.4	3767761	0.000653	3.35E-05	0.00E+00	6.53E-04	3.35E-05	0.00E+00	1.96E-04	6.02E-06	0.00E+00	7.41E-05	1.94E-06	0.00E+00
4406	456638	3767752	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
4407	456641.6	3767743	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.62E-05	2.00E-06	0.00E+00
4408	456645.2	3767734	0.00068	3.49E-05	0.00E+00	6.80E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.72E-05	2.02E-06	0.00E+00
4409	456648.9	3767725	0.000689	3.53E-05	0.00E+00	6.89E-04	3.53E-05	0.00E+00	2.06E-04	6.35E-06	0.00E+00	7.82E-05	2.05E-06	0.00E+00
4410	456652.5	3767716	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
4411	456656.1	3767707	0.000707	3.62E-05	0.00E+00	7.07E-04	3.62E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
4412	456659.7	3767698	0.000716	3.67E-05	0.00E+00	7.16E-04	3.67E-05	0.00E+00	2.14E-04	6.60E-06	0.00E+00	8.12E-05	2.13E-06	0.00E+00
4413	456663.3	3767689	0.000724	3.71E-05	0.00E+00	7.24E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.22E-05	2.15E-06	0.00E+00

4414	456667	3767681	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00
4415	456670.6	3767672	0.000741	3.80E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00
4416	456674.2	3767663	0.000749	3.84E-05	0.00E+00	7.49E-04	3.84E-05	0.00E+00	2.24E-04	6.90E-06	0.00E+00	8.49E-05	2.23E-06	0.00E+00
4417	456677.8	3767654	0.000757	3.88E-05	0.00E+00	7.57E-04	3.88E-05	0.00E+00	2.27E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
4418	456681.4	3767645	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
4419	456685.1	3767636	0.000771	3.96E-05	0.00E+00	7.71E-04	3.96E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.75E-05	2.30E-06	0.00E+00
4420	456688.7	3767627	0.000779	3.99E-05	0.00E+00	7.79E-04	3.99E-05	0.00E+00	2.33E-04	7.18E-06	0.00E+00	8.84E-05	2.32E-06	0.00E+00
4421	456692.3	3767618	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.35E-04	7.24E-06	0.00E+00	8.91E-05	2.34E-06	0.00E+00
4422	456522.2	3768036	0.000383	1.96E-05	0.00E+00	3.83E-04	1.96E-05	0.00E+00	1.15E-04	3.53E-06	0.00E+00	4.35E-05	1.14E-06	0.00E+00
4423	456522.2	3768046	0.000378	1.94E-05	0.00E+00	3.78E-04	1.94E-05	0.00E+00	1.13E-04	3.49E-06	0.00E+00	4.29E-05	1.13E-06	0.00E+00
4424	456522.3	3768056	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
4425	456522.4	3768065	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.40E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
4426	456522.5	3768075	0.000364	1.86E-05	0.00E+00	3.64E-04	1.86E-05	0.00E+00	1.09E-04	3.35E-06	0.00E+00	4.12E-05	1.08E-06	0.00E+00
4427	456522.5	3768084	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.07E-04	3.31E-06	0.00E+00	4.07E-05	1.07E-06	0.00E+00
4428	456522.6	3768094	0.000354	1.81E-05	0.00E+00	3.54E-04	1.81E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.02E-05	1.05E-06	0.00E+00
4429	456522.7	3768104	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.05E-04	3.22E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
4430	456522.7	3768113	0.000344	1.77E-05	0.00E+00	3.44E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.91E-05	1.03E-06	0.00E+00
4431	456522.8	3768123	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
4432	456522.9	3768133	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.97E-07	0.00E+00
4433	456523	3768142	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.90E-05	3.05E-06	0.00E+00	3.75E-05	9.83E-07	0.00E+00
4434	456523	3768152	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.76E-05	3.00E-06	0.00E+00	3.70E-05	9.70E-07	0.00E+00
4435	456523.1	3768161	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.63E-05	2.96E-06	0.00E+00	3.65E-05	9.57E-07	0.00E+00
4436	456523.2	3768171	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.50E-05	2.92E-06	0.00E+00	3.60E-05	9.43E-07	0.00E+00
4437	456523.3	3768181	0.000313	1.60E-05	0.00E+00	3.13E-04	1.60E-05	0.00E+00	9.36E-05	2.88E-06	0.00E+00	3.55E-05	9.30E-07	0.00E+00
4438	456523.3	3768190	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
4439	456523.4	3768200	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.10E-05	2.80E-06	0.00E+00	3.45E-05	9.04E-07	0.00E+00
4440	456523.5	3768209	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.98E-05	2.76E-06	0.00E+00	3.40E-05	8.92E-07	0.00E+00
4441	456523.6	3768219	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.85E-05	2.72E-06	0.00E+00	3.35E-05	8.79E-07	0.00E+00
4442	456523.6	3768229	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.67E-07	0.00E+00
4443	456523.7	3768238	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.60E-05	2.65E-06	0.00E+00	3.26E-05	8.55E-07	0.00E+00
4444	457333.7	3768242	0.00595	3.05E-04	0.00E+00	5.95E-03	3.05E-04	0.00E+00	1.78E-03	5.48E-05	0.00E+00	6.75E-04	1.77E-05	0.00E+00
4445	457343.6	3768242	0.007102	3.64E-04	0.00E+00	7.10E-03	3.64E-04	0.00E+00	2.13E-03	6.55E-05	0.00E+00	8.06E-04	2.11E-05	0.00E+00
4446	457353.6	3768242	0.008489	4.35E-04	0.00E+00	8.49E-03	4.35E-04	0.00E+00	2.54E-03	7.82E-05	0.00E+00	9.63E-04	2.53E-05	0.00E+00
4447	457363.6	3768242	0.009934	5.09E-04	0.00E+00	9.93E-03	5.09E-04	0.00E+00	2.98E-03	9.16E-05	0.00E+00	1.13E-03	2.96E-05	0.00E+00
4448	457373.5	3768242	0.011324	5.81E-04	0.00E+00	1.13E-02	5.81E-04	0.00E+00	3.39E-03	1.04E-04	0.00E+00	1.28E-03	3.37E-05	0.00E+00
4449	457383.5	3768242	0.012632	6.48E-04	0.00E+00	1.26E-02	6.48E-04	0.00E+00	3.78E-03	1.16E-04	0.00E+00	1.43E-03	3.76E-05	0.00E+00
4450	457393.5	3768242	0.013848	7.10E-04	0.00E+00	1.38E-02	7.10E-04	0.00E+00	4.15E-03	1.28E-04	0.00E+00	1.57E-03	4.12E-05	0.00E+00
4451	457403.5	3768242	0.01499	7.68E-04	0.00E+00	1.50E-02	7.68E-04	0.00E+00	4.49E-03	1.38E-04	0.00E+00	1.70E-03	4.46E-05	0.00E+00
4452	457413.4	3768242	0.016032	8.22E-04	0.00E+00	1.60E-02	8.22E-04	0.00E+00	4.80E-03	1.48E-04	0.00E+00	1.82E-03	4.77E-05	0.00E+00
4453	457423.4	3768242	0.016987	8.71E-04	0.00E+00	1.70E-02	8.71E-04	0.00E+00	5.09E-03	1.57E-04	0.00E+00	1.93E-03	5.06E-05	0.00E+00
4454	457433.4	3768242	0.017866	9.16E-04	0.00E+00	1.79E-02	9.16E-04	0.00E+00	5.35E-03	1.65E-04	0.00E+00	2.03E-03	5.32E-05	0.00E+00
4455	457443.3	3768242	0.018667	9.57E-04	0.00E+00	1.87E-02	9.57E-04	0.00E+00	5.59E-03	1.72E-04	0.00E+00	2.12E-03	5.55E-05	0.00E+00
4456	457453.3	3768242	0.019389	9.94E-04	0.00E+00	1.94E-02	9.94E-04	0.00E+00	5.81E-03	1.79E-04	0.00E+00	2.20E-03	5.77E-05	0.00E+00
4457	457463.3	3768242	0.020023	1.03E-03	0.00E+00	2.00E-02	1.03E-03	0.00E+00	6.00E-03	1.85E-04	0.00E+00	2.27E-03	5.96E-05	0.00E+00
4458	457473.2	3768242	0.020604	1.06E-03	0.00E+00	2.06E-02	1.06E-03	0.00E+00	6.17E-03	1.90E-04	0.00E+00	2.34E-03	6.13E-05	0.00E+00
4459	457483.2	3768242	0.021128	1.08E-03	0.00E+00	2.11E-02	1.08E-03	0.00E+00	6.33E-03	1.95E-04	0.00E+00	2.40E-03	6.29E-05	0.00E+00
4460	457493.2	3768242	0.021611	1.11E-03	0.00E+00	2.16E-02	1.11E-03	0.00E+00	6.47E-03	1.99E-04	0.00E+00	2.45E-03	6.43E-05	0.00E+00
4461	457503.2	3768242	0.022043	1.13E-03	0.00E+00	2.20E-02	1.13E-03	0.00E+00	6.60E-03	2.03E-04	0.00E+00	2.50E-03	6.56E-05	0.00E+00
4462	457513.1	3768242	0.022453	1.15E-03	0.00E+00	2.25E-02	1.15E-03	0.00E+00	6.73E-03	2.07E-04	0.00E+00	2.55E-03	6.68E-05	0.00E+00
4463	457523.1	3768242	0.02284	1.17E-03	0.00E+00	2.28E-02	1.17E-03	0.00E+00	6.84E-03	2.11E-04	0.00E+00	2.59E-03	6.80E-05	0.00E+00
4464	457533.1	3768242	0.023189	1.19E-03	0.00E+00	2.32E-02	1.19E-03	0.00E+00	6.95E-03	2.14E-04	0.00E+00	2.63E-03	6.90E-05	0.00E+00
4465	457543	3768242	0.023509	1.21E-03	0.00E+00	2.35E-02	1.21E-03	0.00E+00	7.04E-03	2.17E-04	0.00E+00	2.67E-03	7.00E-05	0.00E+00
4466	457553	3768242	0.023792	1.22E-03	0.00E+00	2.38E-02	1.22E-03	0.00E+00	7.13E-03	2.19E-04	0.00E+00	2.70E-03	7.08E-05	0.00E+00
4467	457563	3768242	0.024048	1.23E-03	0.00E+00	2.40E-02	1.23E-03	0.00E+00	7.20E-03	2.22E-04	0.00E+00	2.73E-03	7.16E-05	0.00E+00
4468	457572.9	3768242	0.024253	1.24E-03	0.00E+00	2.43E-02	1.24E-03	0.00E+00	7.26E-03	2.24E-04	0.00E+00	2.75E-03	7.22E-05	0.00E+00
4469	457582.9	3768242	0.024402	1.25E-03	0.00E+00	2.44E-02	1.25E-03	0.00E+00	7.31E-03	2.25E-04	0.00E+00	2.77E-03	7.26E-05	0.00E+00
4470	457592.9	3768242	0.024509	1.26E-03	0.00E+00	2.45E-02	1.26E-03	0.00E+00	7.34E-03	2.26E-04	0.00E+00	2.78E-03	7.29E-05	0.00E+00
4471	457602.9	3768242	0.024589	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.36E-03	2.27E-04	0.00E+00	2.79E-03	7.32E-05	0.00E+00
4472	457612.8	3768242	0.024634	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.38E-03	2.27E-04	0.00E+00	2.79E-03	7.33E-05	0.00E+00
4473	457622.8	3768242	0.024639	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.38E-03	2.27E-04	0.00E+00	2.80E-03	7.33E-05	0.00E+00
4474	457632.8	3768242	0.024626	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.38E-03	2.27E-04	0.00E+00	2.79E-03	7.33E-05	0.00E+00
4475	457642.7	3768242	0.024602	1.26E-03	0.00E+00	2.46E-02	1.26E-03	0.00E+00	7.37E-03	2.27E-04	0.00E+00	2.79E-03	7.32E-05	0.00E+00
4476	457652.7	3768242	0.024537	1.26E-03	0.00E+00	2.45E-02	1.26E-03	0.00E+00	7.35E-03	2.26E-04	0.00E+00	2.78E-03	7.30E-05	0.00E+00
4477	457662.7	3768242	0.024412	1.25E-03	0.00E+00	2.44E-02	1.25E-03	0.00E+00	7.31E-03	2.25E-04	0.00E+00	2.77E-03	7.26E-05	0.00E+00
4478	457672.6	3768242	0.024224	1.24E-03	0.00E+00	2.42E-02	1.24E-03	0.00E+00	7.26E-03	2.23E-04	0.00E+00	2.75E-03	7.21E-05	0.00E+00
4479	457682.6	3768242	0.023936	1.23E-03	0.00E+00	2.39E-02	1.23E-03	0.00E+00	7.17E-03	2.21E-04	0.00E+00	2.72E-03	7.12E-05	0.00E+00
4480	457692.6	3768242	0.023495	1.20E-03	0.00E+00	2.35E-02	1.20E-03	0.00E+00	7.04E-03	2.17E-04	0.00E+00	2.67E-03	6.99E-05	0.00E+00
4481	457702.6	3768242	0.022747	1.17E-03	0.00E+00	2.27E-02	1.17E-03	0.00E+00	6.81E-03	2.10E-04	0.00E+00	2.58E-03	6.77E-05	0.00E+00
4482	457333.7	3768252	0.004945	2.54E-04	0.00E+00	4.94E-03	2.54E-04	0.00E+00	1.48E-03	4.56E-05	0.00E+00	5.61E-04	1.47E-05	0.00E+00
4483	457343.6	3768252	0.005691	2.92E-04	0.00E+00	5.69E-03	2.92E-04	0.00E+00	1.70E-03	5.25E-05	0.00E+00	6.46E-04	1.69E-05	0.00E+00
4484	457353.6	3768252	0.006579	3.37E-04	0.00E+00	6.58E-03	3.37E-04	0.00E+00	1.97E-03	6.07E-05	0.00E+00	7.46E-04	1.96E-05	0.00E+00
4485	457363.6	3768252	0.007569	3.88E-04	0.00E+00	7.57E-03	3.88E-04	0.00E+00	2.27E-03	6.98E-05	0.00E+00	8.59E-04	2.25E-05	0.00E+00
4486	457373.5	3768252	0.00861	4.41E-04	0.00E+00	8.61E-03	4.41E-04	0.00E+00	2.58E-03	7.94E-05	0.00E+00	9.77E-04	2.56E-05	0.00E+00
4487	457383.5	3768252	0.009645	4.94E-04	0.00E+00	9.64E-03	4.94E-04	0.00E+00	2.89E-03	8.89E-05	0.00E+00	1.09E-03	2.87E-05	0.00E+00
4488	457393.5	3768252	0.010642	5.46E-04	0.00E+00	1.06E-02	5.46E-04	0.00E+00	3.19E-03	9.81E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
4489	457403.5	3768252	0.011595	5.94E-04	0.00E+00	1.16E-02	5.94E-04	0.00E+00	3.47E-03	1.07E-04	0.00E+00	1.32E-03	3.45E-05	0.00E+00
4490	457413.4	3768252	0.012489	6.40E-04	0.00E+00	1.25E-02	6.40E-04	0.00E+00	3.74E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
4491	457423.4	3768252	0.013326	6.83E-04	0.00E+00	1.33E-02	6.83E-04	0.00E+00	3.99E-03	1.23E-04	0.00E+00	1.51E-03	3.97E-05	0.00E+00
4492	457433.4	3768252	0.014108	7.23E-04	0.00E+00	1.41E-02	7.23E-04	0.00E+00	4.23E-03	1.30E-04	0.00E+00	1.60E-03	4.20E-05	0.00E+00
4493	457443.3	3768252	0.014832	7.60E-04	0.00E+00	1.48E-02	7.60E-04	0.00E+00	4.44E-03	1.37E-04	0.00E+00	1.68E-03	4.41E-05	0.00E+00
4494	457453.3	3768252	0.015488	7.94E-04	0.00E+00	1.55E-02	7.94E-04	0.00E+00	4.64E-03	1.43E-04	0.00E+00	1.76E-03	4.61E-05	0.00E+00
4495	457463.3	3768252	0.016064	8.24E-04	0.00E+00	1.61E-02	8.24E-04	0.00E+00	4.81E-03	1.48E-04	0.00E+00	1.82E-03	4.78E-05	0.00E+00
4496	457473.2	3768252	0.016593	8.51E-04	0.00E+00	1.66E-02	8.51E-04	0.00E+00	4.97E-03	1.53E-04	0.00E+00	1.88E-03	4.94E-05	0.00E+00
4497	457483.2	3768252	0.01709	8.76E-04	0.00E+00	1.71E-02	8.76E-04	0.00E+00	5.12E-03	1.58E-04	0.00E+00	1.94E-03	5.09E-05	0.00E+00
4498	457493.2	3768252	0.017575	9.01E-04	0.00E+00	1.76E-02	9.01E-04	0.00E+00	5.26E-03	1.62E-04	0.00E+00	1.99E-03	5.23E-05	0.00E+00
4499	457503.2	3768252	0.018015	9.24E-04	0.00E+00	1.80E-02	9.24E-04	0.00E+00	5.40E-03	1.66E-04	0.00E+00	2.04E-03	5.36E-05	0.00E+00
4500	457513.1	3768252	0.018425	9.45E-04	0.00E+00	1.84E-02	9.45E-04	0.00E+00	5.52E-03	1.70E-04	0.00E+00	2.09E-03	5.48E-05	0.00E+00
4501	457523.1	3768252	0.018803	9.64E-04	0.00E+00	1.88E-02	9.64E-04	0.00E+00	5.63E-03	1.73E-04	0.00E+00	2.13E-03	5.60E-05	0.00E+00
4502	457533.1	3768252	0.019148	9.82E-04	0.00E+00	1.91E-02	9.82E-04	0.00E+00	5.74E-03	1.77E-04	0.00E+00	2.17E-03	5.70E-05	0.00E+00
4503	457543	3768252	0.019465	9.98E-04	0.00E+00	1.95E-02	9.98E-04	0.00E+00	5.83E-03	1.79E-04	0.00E+00	2.21E-03	5.79E-05	0.00E+00
4504	457553	3768252	0.019749	1.01E-03	0.00E+00	1.97E-02	1.01E-03	0.00E+00	5.92E-03	1.82E-04	0.00E+00	2.24E-03	5.88E-05	0.00E+00
4505	457563	3768252	0.020008	1.03E-03	0.00E+00	2.00E-02	1.03E-03	0.00E+00	5.99E-03	1.84E-04	0.00E+00	2.27E-03	5.95E-05	0.00E+00
4506	457573	3768252	0.020215	1.04E-03	0.00E+00	2.02E-02	1.04E-03	0.00E+00	6.05E-03	1.86E-04	0.00E+00	2.29E-03	6.02E-05	0.00E+00
4507	457582.9	3768252	0.020363	1.04E-03	0.00E+00	2.04E-02	1.04E-03	0.00E+00	6.10E-03	1.88E-04	0.00E+00	2.31E-03	6.06E-05	0.00E+00
4508	457592.9	3768252	0.020477	1.05E-03	0.00E+00	2.05E-02	1.05E-03	0.00E+00	6.13E-03	1.89E-04	0.00E+00	2.32E-03	6.09E-05	0.00E+00
4509	457602.9	3768252	0.020581	1.06E-03	0.00E+00	2.06E-02	1.06E-03	0.00E+00	6.16E-03	1.90E-04	0.00E+00	2.34E-03	6.12E-05	0.00E+00

4510	457612.8	3768252	0.020682	1.06E-03	0.00E+00	2.07E-02	1.06E-03	0.00E+00	6.19E-03	1.91E-04	0.00E+00	2.35E-03	6.15E-05	0.00E+00
4511	457622.8	3768252	0.020753	1.06E-03	0.00E+00	2.08E-02	1.06E-03	0.00E+00	6.22E-03	1.91E-04	0.00E+00	2.35E-03	6.18E-05	0.00E+00
4512	457632.8	3768252	0.020799	1.07E-03	0.00E+00	2.08E-02	1.07E-03	0.00E+00	6.23E-03	1.92E-04	0.00E+00	2.36E-03	6.19E-05	0.00E+00
4513	457642.7	3768252	0.020816	1.07E-03	0.00E+00	2.08E-02	1.07E-03	0.00E+00	6.23E-03	1.92E-04	0.00E+00	2.36E-03	6.19E-05	0.00E+00
4514	457652.7	3768252	0.020797	1.07E-03	0.00E+00	2.08E-02	1.07E-03	0.00E+00	6.23E-03	1.92E-04	0.00E+00	2.36E-03	6.19E-05	0.00E+00
4515	457662.7	3768252	0.020731	1.06E-03	0.00E+00	2.07E-02	1.06E-03	0.00E+00	6.21E-03	1.91E-04	0.00E+00	2.35E-03	6.17E-05	0.00E+00
4516	457672.7	3768252	0.020615	1.06E-03	0.00E+00	2.06E-02	1.06E-03	0.00E+00	6.17E-03	1.90E-04	0.00E+00	2.34E-03	6.13E-05	0.00E+00
4517	457682.6	3768252	0.020428	1.05E-03	0.00E+00	2.04E-02	1.05E-03	0.00E+00	6.12E-03	1.88E-04	0.00E+00	2.32E-03	6.08E-05	0.00E+00
4518	457692.6	3768252	0.020136	1.03E-03	0.00E+00	2.01E-02	1.03E-03	0.00E+00	6.03E-03	1.86E-04	0.00E+00	2.28E-03	5.99E-05	0.00E+00
4519	457333.7	3768262	0.004237	2.17E-04	0.00E+00	4.24E-03	2.17E-04	0.00E+00	1.27E-03	3.91E-05	0.00E+00	4.81E-04	1.26E-05	0.00E+00
4520	457343.6	3768262	0.004758	2.44E-04	0.00E+00	4.76E-03	2.44E-04	0.00E+00	1.42E-03	4.39E-05	0.00E+00	5.40E-04	1.42E-05	0.00E+00
4521	457353.6	3768262	0.005371	2.75E-04	0.00E+00	5.37E-03	2.75E-04	0.00E+00	1.61E-03	4.95E-05	0.00E+00	6.09E-04	1.60E-05	0.00E+00
4522	457363.6	3768262	0.00608	3.12E-04	0.00E+00	6.08E-03	3.12E-04	0.00E+00	1.82E-03	5.60E-05	0.00E+00	6.90E-04	1.81E-05	0.00E+00
4523	457373.5	3768262	0.006858	3.52E-04	0.00E+00	6.86E-03	3.52E-04	0.00E+00	2.05E-03	6.32E-05	0.00E+00	7.78E-04	2.04E-05	0.00E+00
4524	457383.5	3768262	0.007664	3.93E-04	0.00E+00	7.66E-03	3.93E-04	0.00E+00	2.30E-03	7.06E-05	0.00E+00	8.70E-04	2.28E-05	0.00E+00
4525	457393.5	3768262	0.008467	4.34E-04	0.00E+00	8.47E-03	4.34E-04	0.00E+00	2.54E-03	7.81E-05	0.00E+00	9.61E-04	2.52E-05	0.00E+00
4526	457403.5	3768262	0.009255	4.74E-04	0.00E+00	9.26E-03	4.74E-04	0.00E+00	2.77E-03	8.53E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
4527	457413.4	3768262	0.010013	5.13E-04	0.00E+00	1.00E-02	5.13E-04	0.00E+00	3.00E-03	9.23E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
4528	457423.4	3768262	0.010734	5.50E-04	0.00E+00	1.07E-02	5.50E-04	0.00E+00	3.21E-03	9.89E-05	0.00E+00	1.22E-03	3.19E-05	0.00E+00
4529	457433.4	3768262	0.011413	5.85E-04	0.00E+00	1.14E-02	5.85E-04	0.00E+00	3.42E-03	1.05E-04	0.00E+00	1.29E-03	3.40E-05	0.00E+00
4530	457443.3	3768262	0.012053	6.18E-04	0.00E+00	1.21E-02	6.18E-04	0.00E+00	3.61E-03	1.11E-04	0.00E+00	1.37E-03	3.59E-05	0.00E+00
4531	457453.3	3768262	0.012646	6.48E-04	0.00E+00	1.26E-02	6.48E-04	0.00E+00	3.79E-03	1.17E-04	0.00E+00	1.43E-03	3.76E-05	0.00E+00
4532	457463.3	3768262	0.013183	6.76E-04	0.00E+00	1.32E-02	6.76E-04	0.00E+00	3.95E-03	1.22E-04	0.00E+00	1.50E-03	3.92E-05	0.00E+00
4533	457473.3	3768262	0.013685	7.02E-04	0.00E+00	1.37E-02	7.02E-04	0.00E+00	4.10E-03	1.26E-04	0.00E+00	1.55E-03	4.07E-05	0.00E+00
4534	457483.2	3768262	0.01416	7.26E-04	0.00E+00	1.42E-02	7.26E-04	0.00E+00	4.24E-03	1.31E-04	0.00E+00	1.61E-03	4.21E-05	0.00E+00
4535	457493.2	3768262	0.014624	7.50E-04	0.00E+00	1.46E-02	7.50E-04	0.00E+00	4.38E-03	1.35E-04	0.00E+00	1.66E-03	4.35E-05	0.00E+00
4536	457503.2	3768262	0.015051	7.72E-04	0.00E+00	1.51E-02	7.72E-04	0.00E+00	4.51E-03	1.39E-04	0.00E+00	1.71E-03	4.48E-05	0.00E+00
4537	457513.1	3768262	0.01545	7.92E-04	0.00E+00	1.55E-02	7.92E-04	0.00E+00	4.63E-03	1.42E-04	0.00E+00	1.75E-03	4.60E-05	0.00E+00
4538	457523.1	3768262	0.015815	8.11E-04	0.00E+00	1.58E-02	8.11E-04	0.00E+00	4.74E-03	1.46E-04	0.00E+00	1.79E-03	4.71E-05	0.00E+00
4539	457533.1	3768262	0.01615	8.28E-04	0.00E+00	1.62E-02	8.28E-04	0.00E+00	4.84E-03	1.49E-04	0.00E+00	1.83E-03	4.81E-05	0.00E+00
4540	457543	3768262	0.016458	8.44E-04	0.00E+00	1.65E-02	8.44E-04	0.00E+00	4.93E-03	1.52E-04	0.00E+00	1.87E-03	4.90E-05	0.00E+00
4541	457553	3768262	0.01673	8.58E-04	0.00E+00	1.67E-02	8.58E-04	0.00E+00	5.01E-03	1.54E-04	0.00E+00	1.90E-03	4.98E-05	0.00E+00
4542	457563	3768262	0.016978	8.70E-04	0.00E+00	1.70E-02	8.70E-04	0.00E+00	5.09E-03	1.57E-04	0.00E+00	1.93E-03	5.05E-05	0.00E+00
4543	457573	3768262	0.017189	8.81E-04	0.00E+00	1.72E-02	8.81E-04	0.00E+00	5.15E-03	1.58E-04	0.00E+00	1.95E-03	5.12E-05	0.00E+00
4544	457582.9	3768262	0.017358	8.90E-04	0.00E+00	1.74E-02	8.90E-04	0.00E+00	5.20E-03	1.60E-04	0.00E+00	1.97E-03	5.17E-05	0.00E+00
4545	457592.9	3768262	0.017498	8.97E-04	0.00E+00	1.75E-02	8.97E-04	0.00E+00	5.24E-03	1.61E-04	0.00E+00	1.99E-03	5.21E-05	0.00E+00
4546	457602.9	3768262	0.017627	9.04E-04	0.00E+00	1.76E-02	9.04E-04	0.00E+00	5.28E-03	1.62E-04	0.00E+00	2.00E-03	5.25E-05	0.00E+00
4547	457612.8	3768262	0.017753	9.10E-04	0.00E+00	1.78E-02	9.10E-04	0.00E+00	5.32E-03	1.64E-04	0.00E+00	2.01E-03	5.28E-05	0.00E+00
4548	457622.8	3768262	0.017853	9.15E-04	0.00E+00	1.79E-02	9.15E-04	0.00E+00	5.35E-03	1.65E-04	0.00E+00	2.03E-03	5.31E-05	0.00E+00
4549	457632.8	3768262	0.017929	9.19E-04	0.00E+00	1.79E-02	9.19E-04	0.00E+00	5.37E-03	1.65E-04	0.00E+00	2.03E-03	5.34E-05	0.00E+00
4550	457642.7	3768262	0.017975	9.22E-04	0.00E+00	1.80E-02	9.22E-04	0.00E+00	5.38E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
4551	457652.7	3768262	0.017991	9.22E-04	0.00E+00	1.80E-02	9.22E-04	0.00E+00	5.39E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
4552	457662.7	3768262	0.017968	9.21E-04	0.00E+00	1.80E-02	9.21E-04	0.00E+00	5.38E-03	1.66E-04	0.00E+00	2.04E-03	5.35E-05	0.00E+00
4553	457672.7	3768262	0.017902	9.18E-04	0.00E+00	1.79E-02	9.18E-04	0.00E+00	5.36E-03	1.65E-04	0.00E+00	2.03E-03	5.33E-05	0.00E+00
4554	457682.6	3768262	0.017782	9.12E-04	0.00E+00	1.78E-02	9.12E-04	0.00E+00	5.33E-03	1.64E-04	0.00E+00	2.02E-03	5.29E-05	0.00E+00
4555	457692.6	3768262	0.017592	9.02E-04	0.00E+00	1.76E-02	9.02E-04	0.00E+00	5.27E-03	1.62E-04	0.00E+00	2.00E-03	5.24E-05	0.00E+00
4556	457702.6	3768262	0.017294	8.87E-04	0.00E+00	1.73E-02	8.87E-04	0.00E+00	5.18E-03	1.59E-04	0.00E+00	1.96E-03	5.15E-05	0.00E+00
4557	457292.6	3768254	0.003205	1.64E-04	0.00E+00	3.20E-03	1.64E-04	0.00E+00	9.60E-04	2.95E-05	0.00E+00	3.64E-04	9.54E-06	0.00E+00
4558	457333.7	3768272	0.003702	1.90E-04	0.00E+00	3.70E-03	1.90E-04	0.00E+00	1.11E-03	3.41E-05	0.00E+00	4.20E-04	1.10E-05	0.00E+00
4559	457343.6	3768272	0.004084	2.09E-04	0.00E+00	4.08E-03	2.09E-04	0.00E+00	1.22E-03	3.76E-05	0.00E+00	4.63E-04	1.22E-05	0.00E+00
4560	457353.6	3768272	0.00454	2.33E-04	0.00E+00	4.54E-03	2.33E-04	0.00E+00	1.36E-03	4.18E-05	0.00E+00	5.15E-04	1.35E-05	0.00E+00
4561	457363.6	3768272	0.00507	2.60E-04	0.00E+00	5.07E-03	2.60E-04	0.00E+00	1.52E-03	4.67E-05	0.00E+00	5.75E-04	1.51E-05	0.00E+00
4562	457373.6	3768272	0.005659	2.90E-04	0.00E+00	5.66E-03	2.90E-04	0.00E+00	1.69E-03	5.22E-05	0.00E+00	6.42E-04	1.68E-05	0.00E+00
4563	457383.5	3768272	0.006285	3.22E-04	0.00E+00	6.29E-03	3.22E-04	0.00E+00	1.88E-03	5.79E-05	0.00E+00	7.13E-04	1.87E-05	0.00E+00
4564	457393.5	3768272	0.006928	3.55E-04	0.00E+00	6.93E-03	3.55E-04	0.00E+00	2.08E-03	6.39E-05	0.00E+00	7.86E-04	2.06E-05	0.00E+00
4565	457403.5	3768272	0.007575	3.88E-04	0.00E+00	7.57E-03	3.88E-04	0.00E+00	2.27E-03	6.98E-05	0.00E+00	8.59E-04	2.25E-05	0.00E+00
4566	457413.4	3768272	0.008211	4.21E-04	0.00E+00	8.21E-03	4.21E-04	0.00E+00	2.46E-03	7.57E-05	0.00E+00	9.32E-04	2.44E-05	0.00E+00
4567	457423.4	3768272	0.008825	4.52E-04	0.00E+00	8.82E-03	4.52E-04	0.00E+00	2.64E-03	8.13E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
4568	457433.4	3768272	0.009408	4.82E-04	0.00E+00	9.41E-03	4.82E-04	0.00E+00	2.82E-03	8.67E-05	0.00E+00	1.07E-03	2.80E-05	0.00E+00
4569	457443.3	3768272	0.009964	5.11E-04	0.00E+00	9.96E-03	5.11E-04	0.00E+00	2.98E-03	9.18E-05	0.00E+00	1.13E-03	2.97E-05	0.00E+00
4570	457453.3	3768272	0.010496	5.38E-04	0.00E+00	1.05E-02	5.38E-04	0.00E+00	3.14E-03	9.68E-05	0.00E+00	1.19E-03	3.12E-05	0.00E+00
4571	457463.3	3768272	0.010997	5.64E-04	0.00E+00	1.10E-02	5.64E-04	0.00E+00	3.29E-03	1.01E-04	0.00E+00	1.25E-03	3.27E-05	0.00E+00
4572	457473.3	3768272	0.011472	5.88E-04	0.00E+00	1.15E-02	5.88E-04	0.00E+00	3.44E-03	1.06E-04	0.00E+00	1.30E-03	3.41E-05	0.00E+00
4573	457483.2	3768272	0.011921	6.11E-04	0.00E+00	1.19E-02	6.11E-04	0.00E+00	3.57E-03	1.10E-04	0.00E+00	1.35E-03	3.55E-05	0.00E+00
4574	457493.2	3768272	0.012353	6.33E-04	0.00E+00	1.24E-02	6.33E-04	0.00E+00	3.70E-03	1.14E-04	0.00E+00	1.40E-03	3.68E-05	0.00E+00
4575	457503.2	3768272	0.012756	6.54E-04	0.00E+00	1.28E-02	6.54E-04	0.00E+00	3.82E-03	1.18E-04	0.00E+00	1.45E-03	3.80E-05	0.00E+00
4576	457513.1	3768272	0.013133	6.73E-04	0.00E+00	1.31E-02	6.73E-04	0.00E+00	3.93E-03	1.21E-04	0.00E+00	1.49E-03	3.91E-05	0.00E+00
4577	457523.1	3768272	0.013483	6.91E-04	0.00E+00	1.35E-02	6.91E-04	0.00E+00	4.04E-03	1.24E-04	0.00E+00	1.53E-03	4.01E-05	0.00E+00
4578	457533.1	3768272	0.013806	7.08E-04	0.00E+00	1.38E-02	7.08E-04	0.00E+00	4.14E-03	1.27E-04	0.00E+00	1.57E-03	4.11E-05	0.00E+00
4579	457543	3768272	0.014102	7.23E-04	0.00E+00	1.41E-02	7.23E-04	0.00E+00	4.22E-03	1.30E-04	0.00E+00	1.60E-03	4.20E-05	0.00E+00
4580	457553	3768272	0.01436	7.36E-04	0.00E+00	1.44E-02	7.36E-04	0.00E+00	4.30E-03	1.32E-04	0.00E+00	1.63E-03	4.27E-05	0.00E+00
4581	457563	3768272	0.014596	7.48E-04	0.00E+00	1.46E-02	7.48E-04	0.00E+00	4.37E-03	1.35E-04	0.00E+00	1.66E-03	4.34E-05	0.00E+00
4582	457573	3768272	0.014806	7.59E-04	0.00E+00	1.48E-02	7.59E-04	0.00E+00	4.43E-03	1.36E-04	0.00E+00	1.68E-03	4.41E-05	0.00E+00
4583	457582.9	3768272	0.014997	7.69E-04	0.00E+00	1.50E-02	7.69E-04	0.00E+00	4.49E-03	1.38E-04	0.00E+00	1.70E-03	4.46E-05	0.00E+00
4584	457592.9	3768272	0.015164	7.77E-04	0.00E+00	1.52E-02	7.77E-04	0.00E+00	4.54E-03	1.40E-04	0.00E+00	1.72E-03	4.51E-05	0.00E+00
4585	457602.9	3768272	0.015315	7.85E-04	0.00E+00	1.53E-02	7.85E-04	0.00E+00	4.59E-03	1.41E-04	0.00E+00	1.74E-03	4.56E-05	0.00E+00
4586	457612.8	3768272	0.015452	7.92E-04	0.00E+00	1.55E-02	7.92E-04	0.00E+00	4.63E-03	1.42E-04	0.00E+00	1.75E-03	4.60E-05	0.00E+00
4587	457622.8	3768272	0.015566	7.98E-04	0.00E+00	1.56E-02	7.98E-04	0.00E+00	4.66E-03	1.43E-04	0.00E+00	1.77E-03	4.63E-05	0.00E+00
4588	457632.8	3768272	0.015659	8.03E-04	0.00E+00	1.57E-02	8.03E-04	0.00E+00	4.69E-03	1.44E-04	0.00E+00	1.78E-03	4.66E-05	0.00E+00
4589	457642.8	3768272	0.015725	8.06E-04	0.00E+00	1.57E-02	8.06E-04	0.00E+00	4.71E-03	1.45E-04	0.00E+00	1.78E-03	4.68E-05	0.00E+00
4590	457652.7	3768272	0.015766	8.08E-04	0.00E+00	1.58E-02	8.08E-04	0.00E+00	4.72E-03	1.45E-04	0.00E+00	1.79E-03	4.69E-05	0.00E+00
4591	457662.7	3768272	0.015772	8.09E-04	0.00E+00	1.58E-02	8.09E-04	0.00E+00	4.72E-03	1.45E-04	0.00E+00	1.79E-03	4.69E-05	0.00E+00
4592	457672.7	3768272	0.015735	8.07E-04	0.00E+00	1.57E-02	8.07E-04	0.00E+00	4.71E-03	1.45E-04	0.00E+00	1.79E-03	4.68E-05	0.00E+00
4593	457682.6	3768272	0.015662	8.03E-04	0.00E+00	1.57E-02	8.03E-04	0.00E+00	4.69E-03	1.44E-04	0.00E+00	1.78E-03	4.66E-05	0.00E+00
4594	457692.6	3768272	0.015542	7.97E-04	0.00E+00	1.55E-02	7.97E-04	0.00E+00	4.66E-03	1.43E-04	0.00E+00	1.76E-03	4.63E-05	0.00E+00
4595	457284.8	3768259	0.002865	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.58E-04	2.64E-05	0.00E+00	3.25E-04	8.53E-06	0.00E+00
4596	457281.1	3768250	0.00303	1.55E-04	0.00E+00	3.03E-03	1.55E-04	0.00E+00	9.07E-04	2.79E-05	0.00E+00	3.44E-04	9.02E-06	0.00E+00
4597	457277.4	3768241	0.003205	1.64E-04	0.00E+00	3.21E-03	1.64E-04	0.00E+00	9.60E-04	2.95E-05	0.00E+00	3.64E-04	9.54E-06	0.00E+00
4598	457333.7	3768282	0.003278	1.68E-04	0.00E+00	3.28E-03	1.68E-04	0.00E+00	9.82E-04	3.02E-05	0.00E+00	3.72E-04	9.75E-06	0.00E+00
4599	457343.6	3768282	0.003576	1.83E-04	0.00E+00	3.58E-03	1.83E-04	0.00E+00	1.07E-03	3.30E-05	0.00E+00	4.06E-04	1.06E-05	0.00E+00
4600	457353.6	3768282	0.003928	2.01E-04	0.00E+00	3.93E-03	2.01E-04	0.00E+00	1.18E-03	3.62E-05	0.00E+00	4.46E-04	1.17E-05	0.00E+00
4601	457363.6	3768282	0.004335	2.22E-04	0.00E+00	4.34E-03	2.22E-04	0.00E+00	1.30E-03	4.00E-05	0.00E+00	4.92E-04	1.29E-05	0.00E+00
4602	457373.6	3768282	0.00479	2.46E-04	0.00E+00	4.79E-03	2.46E-04	0.00E+00	1.43E-03	4.42E-05	0.00E+00	5.43E-04	1.43E-05	0.00E+00
4603	457383.5	3768282	0.005283	2.71E-04	0.00E+00	5.28E-03	2.71E-04	0.00E+00	1.58E-03	4.87E-05	0.00E+00	5.99E-04	1.57E-05	0.00E+00
4604	457393.5	3768282	0.005799	2.97E-04	0.00E+00	5.80E-03	2.97E-04	0.00E+00	1.74E-03	5.35E-05	0.00E+00	6.58E-04	1.73E-05	0.00E+00
4605	457403.5	3768282	0.00633	3.25E-04	0.00E+00	6.33E-03	3.25E-04	0.00E+00	1.90E-03	5.83E-05	0.00E+00	7.18E-04	1.88E-05	0.00E+00

4606	457413.4	3768282	0.006862	3.52E-04	0.00E+00	6.86E-03	3.52E-04	0.00E+00	2.06E-03	6.33E-05	0.00E+00	7.79E-04	2.04E-05	0.00E+00
4607	457423.4	3768282	0.007383	3.78E-04	0.00E+00	7.38E-03	3.78E-04	0.00E+00	2.21E-03	6.81E-05	0.00E+00	8.38E-04	2.20E-05	0.00E+00
4608	457433.4	3768282	0.00788	4.04E-04	0.00E+00	7.88E-03	4.04E-04	0.00E+00	2.36E-03	7.26E-05	0.00E+00	8.94E-04	2.34E-05	0.00E+00
4609	457443.4	3768282	0.008362	4.29E-04	0.00E+00	8.36E-03	4.29E-04	0.00E+00	2.50E-03	7.71E-05	0.00E+00	9.49E-04	2.49E-05	0.00E+00
4610	457453.3	3768282	0.008834	4.53E-04	0.00E+00	8.83E-03	4.53E-04	0.00E+00	2.65E-03	8.14E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
4611	457463.3	3768282	0.009294	4.76E-04	0.00E+00	9.29E-03	4.76E-04	0.00E+00	2.78E-03	8.57E-05	0.00E+00	1.05E-03	2.77E-05	0.00E+00
4612	457473.3	3768282	0.009735	4.99E-04	0.00E+00	9.73E-03	4.99E-04	0.00E+00	2.92E-03	8.97E-05	0.00E+00	1.10E-03	2.90E-05	0.00E+00
4613	457483.2	3768282	0.010153	5.21E-04	0.00E+00	1.02E-02	5.21E-04	0.00E+00	3.04E-03	9.36E-05	0.00E+00	1.15E-03	3.02E-05	0.00E+00
4614	457493.2	3768282	0.010553	5.41E-04	0.00E+00	1.06E-02	5.41E-04	0.00E+00	3.16E-03	9.73E-05	0.00E+00	1.20E-03	3.14E-05	0.00E+00
4615	457503.2	3768282	0.010929	5.60E-04	0.00E+00	1.09E-02	5.60E-04	0.00E+00	3.27E-03	1.01E-04	0.00E+00	1.24E-03	3.25E-05	0.00E+00
4616	457513.1	3768282	0.011285	5.79E-04	0.00E+00	1.13E-02	5.79E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.36E-05	0.00E+00
4617	457523.1	3768282	0.011616	5.96E-04	0.00E+00	1.16E-02	5.96E-04	0.00E+00	3.48E-03	1.07E-04	0.00E+00	1.32E-03	3.46E-05	0.00E+00
4618	457533.1	3768282	0.011926	6.11E-04	0.00E+00	1.19E-02	6.11E-04	0.00E+00	3.57E-03	1.10E-04	0.00E+00	1.35E-03	3.55E-05	0.00E+00
4619	457543.1	3768282	0.012208	6.26E-04	0.00E+00	1.22E-02	6.26E-04	0.00E+00	3.66E-03	1.13E-04	0.00E+00	1.39E-03	3.63E-05	0.00E+00
4620	457553	3768282	0.012453	6.38E-04	0.00E+00	1.25E-02	6.38E-04	0.00E+00	3.73E-03	1.15E-04	0.00E+00	1.41E-03	3.71E-05	0.00E+00
4621	457563	3768282	0.012678	6.50E-04	0.00E+00	1.27E-02	6.50E-04	0.00E+00	3.80E-03	1.17E-04	0.00E+00	1.44E-03	3.77E-05	0.00E+00
4622	457573	3768282	0.012888	6.61E-04	0.00E+00	1.29E-02	6.61E-04	0.00E+00	3.86E-03	1.19E-04	0.00E+00	1.46E-03	3.84E-05	0.00E+00
4623	457582.9	3768282	0.013091	6.71E-04	0.00E+00	1.31E-02	6.71E-04	0.00E+00	3.92E-03	1.21E-04	0.00E+00	1.49E-03	3.90E-05	0.00E+00
4624	457592.9	3768282	0.013272	6.80E-04	0.00E+00	1.33E-02	6.80E-04	0.00E+00	3.98E-03	1.22E-04	0.00E+00	1.51E-03	3.95E-05	0.00E+00
4625	457602.9	3768282	0.013437	6.89E-04	0.00E+00	1.34E-02	6.89E-04	0.00E+00	4.02E-03	1.24E-04	0.00E+00	1.52E-03	4.00E-05	0.00E+00
4626	457612.8	3768282	0.013582	6.96E-04	0.00E+00	1.36E-02	6.96E-04	0.00E+00	4.07E-03	1.25E-04	0.00E+00	1.54E-03	4.04E-05	0.00E+00
4627	457622.8	3768282	0.013707	7.03E-04	0.00E+00	1.37E-02	7.03E-04	0.00E+00	4.11E-03	1.26E-04	0.00E+00	1.56E-03	4.08E-05	0.00E+00
4628	457632.8	3768282	0.013813	7.08E-04	0.00E+00	1.38E-02	7.08E-04	0.00E+00	4.14E-03	1.27E-04	0.00E+00	1.57E-03	4.11E-05	0.00E+00
4629	457642.8	3768282	0.013896	7.12E-04	0.00E+00	1.39E-02	7.12E-04	0.00E+00	4.16E-03	1.28E-04	0.00E+00	1.58E-03	4.14E-05	0.00E+00
4630	457652.7	3768282	0.013959	7.16E-04	0.00E+00	1.40E-02	7.16E-04	0.00E+00	4.18E-03	1.29E-04	0.00E+00	1.58E-03	4.15E-05	0.00E+00
4631	457662.7	3768282	0.013988	7.17E-04	0.00E+00	1.40E-02	7.17E-04	0.00E+00	4.19E-03	1.29E-04	0.00E+00	1.59E-03	4.16E-05	0.00E+00
4632	457672.7	3768282	0.013977	7.17E-04	0.00E+00	1.40E-02	7.17E-04	0.00E+00	4.19E-03	1.29E-04	0.00E+00	1.59E-03	4.16E-05	0.00E+00
4633	457682.6	3768282	0.013935	7.14E-04	0.00E+00	1.39E-02	7.14E-04	0.00E+00	4.17E-03	1.28E-04	0.00E+00	1.58E-03	4.15E-05	0.00E+00
4634	457692.6	3768282	0.013864	7.11E-04	0.00E+00	1.39E-02	7.11E-04	0.00E+00	4.15E-03	1.28E-04	0.00E+00	1.57E-03	4.13E-05	0.00E+00
4635	457702.6	3768282	0.013758	7.05E-04	0.00E+00	1.38E-02	7.05E-04	0.00E+00	4.12E-03	1.27E-04	0.00E+00	1.56E-03	4.09E-05	0.00E+00
4636	457289.9	3768278	0.002495	1.28E-04	0.00E+00	2.49E-03	1.28E-04	0.00E+00	7.47E-04	2.30E-05	0.00E+00	2.83E-04	7.42E-06	0.00E+00
4637	457277.9	3768266	0.002557	1.31E-04	0.00E+00	2.56E-03	1.31E-04	0.00E+00	7.66E-04	2.36E-05	0.00E+00	2.90E-04	7.61E-06	0.00E+00
4638	457270.8	3768249	0.00282	1.45E-04	0.00E+00	2.82E-03	1.45E-04	0.00E+00	8.45E-04	2.60E-05	0.00E+00	3.20E-04	8.39E-06	0.00E+00
4639	457333.7	3768292	0.002941	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.81E-04	2.71E-05	0.00E+00	3.34E-04	8.75E-06	0.00E+00
4640	457343.7	3768292	0.00318	1.63E-04	0.00E+00	3.18E-03	1.63E-04	0.00E+00	9.52E-04	2.93E-05	0.00E+00	3.61E-04	9.46E-06	0.00E+00
4641	457353.6	3768292	0.003458	1.77E-04	0.00E+00	3.46E-03	1.77E-04	0.00E+00	1.04E-03	3.19E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
4642	457363.6	3768292	0.003778	1.94E-04	0.00E+00	3.78E-03	1.94E-04	0.00E+00	1.13E-03	3.48E-05	0.00E+00	4.29E-04	1.12E-05	0.00E+00
4643	457373.6	3768292	0.004136	2.12E-04	0.00E+00	4.14E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.69E-04	1.23E-05	0.00E+00
4644	457383.5	3768292	0.004529	2.32E-04	0.00E+00	4.53E-03	2.32E-04	0.00E+00	1.36E-03	4.17E-05	0.00E+00	5.14E-04	1.35E-05	0.00E+00
4645	457393.5	3768292	0.004945	2.54E-04	0.00E+00	4.95E-03	2.54E-04	0.00E+00	1.48E-03	4.56E-05	0.00E+00	5.61E-04	1.47E-05	0.00E+00
4646	457403.5	3768292	0.005378	2.76E-04	0.00E+00	5.38E-03	2.76E-04	0.00E+00	1.61E-03	4.96E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
4647	457413.4	3768292	0.00582	2.98E-04	0.00E+00	5.82E-03	2.98E-04	0.00E+00	1.74E-03	5.36E-05	0.00E+00	6.60E-04	1.73E-05	0.00E+00
4648	457423.4	3768292	0.006259	3.21E-04	0.00E+00	6.26E-03	3.21E-04	0.00E+00	1.87E-03	5.77E-05	0.00E+00	7.10E-04	1.86E-05	0.00E+00
4649	457433.4	3768292	0.006691	3.43E-04	0.00E+00	6.69E-03	3.43E-04	0.00E+00	2.00E-03	6.17E-05	0.00E+00	7.59E-04	1.99E-05	0.00E+00
4650	457443.4	3768292	0.007114	3.65E-04	0.00E+00	7.11E-03	3.65E-04	0.00E+00	2.13E-03	6.56E-05	0.00E+00	8.07E-04	2.12E-05	0.00E+00
4651	457453.3	3768292	0.007533	3.86E-04	0.00E+00	7.53E-03	3.86E-04	0.00E+00	2.26E-03	6.94E-05	0.00E+00	8.55E-04	2.24E-05	0.00E+00
4652	457463.3	3768292	0.007947	4.07E-04	0.00E+00	7.95E-03	4.07E-04	0.00E+00	2.38E-03	7.33E-05	0.00E+00	9.02E-04	2.36E-05	0.00E+00
4653	457473.3	3768292	0.008348	4.28E-04	0.00E+00	8.35E-03	4.28E-04	0.00E+00	2.50E-03	7.70E-05	0.00E+00	9.47E-04	2.48E-05	0.00E+00
4654	457483.2	3768292	0.008731	4.48E-04	0.00E+00	8.73E-03	4.48E-04	0.00E+00	2.62E-03	8.05E-05	0.00E+00	9.91E-04	2.60E-05	0.00E+00
4655	457493.2	3768292	0.009099	4.66E-04	0.00E+00	9.10E-03	4.66E-04	0.00E+00	2.73E-03	8.39E-05	0.00E+00	1.03E-03	2.71E-05	0.00E+00
4656	457503.2	3768292	0.009448	4.84E-04	0.00E+00	9.45E-03	4.84E-04	0.00E+00	2.83E-03	8.71E-05	0.00E+00	1.07E-03	2.81E-05	0.00E+00
4657	457513.1	3768292	0.009779	5.01E-04	0.00E+00	9.78E-03	5.01E-04	0.00E+00	2.93E-03	9.01E-05	0.00E+00	1.11E-03	2.91E-05	0.00E+00
4658	457523.1	3768292	0.010086	5.17E-04	0.00E+00	1.01E-02	5.17E-04	0.00E+00	3.02E-03	9.30E-05	0.00E+00	1.14E-03	3.00E-05	0.00E+00
4659	457533.1	3768292	0.010377	5.32E-04	0.00E+00	1.04E-02	5.32E-04	0.00E+00	3.11E-03	9.57E-05	0.00E+00	1.18E-03	3.09E-05	0.00E+00
4660	457543.1	3768292	0.010646	5.46E-04	0.00E+00	1.06E-02	5.46E-04	0.00E+00	3.19E-03	9.81E-05	0.00E+00	1.21E-03	3.17E-05	0.00E+00
4661	457553	3768292	0.010886	5.58E-04	0.00E+00	1.09E-02	5.58E-04	0.00E+00	3.26E-03	1.00E-04	0.00E+00	1.24E-03	3.24E-05	0.00E+00
4662	457563	3768292	0.011109	5.70E-04	0.00E+00	1.11E-02	5.70E-04	0.00E+00	3.33E-03	1.02E-04	0.00E+00	1.26E-03	3.31E-05	0.00E+00
4663	457573	3768292	0.011318	5.80E-04	0.00E+00	1.13E-02	5.80E-04	0.00E+00	3.39E-03	1.04E-04	0.00E+00	1.28E-03	3.37E-05	0.00E+00
4664	457582.9	3768292	0.011523	5.91E-04	0.00E+00	1.15E-02	5.91E-04	0.00E+00	3.45E-03	1.06E-04	0.00E+00	1.31E-03	3.43E-05	0.00E+00
4665	457592.9	3768292	0.011709	6.00E-04	0.00E+00	1.17E-02	6.00E-04	0.00E+00	3.51E-03	1.08E-04	0.00E+00	1.33E-03	3.48E-05	0.00E+00
4666	457602.9	3768292	0.011877	6.09E-04	0.00E+00	1.19E-02	6.09E-04	0.00E+00	3.56E-03	1.09E-04	0.00E+00	1.35E-03	3.53E-05	0.00E+00
4667	457612.8	3768292	0.012023	6.16E-04	0.00E+00	1.20E-02	6.16E-04	0.00E+00	3.60E-03	1.11E-04	0.00E+00	1.36E-03	3.58E-05	0.00E+00
4668	457622.8	3768292	0.012151	6.23E-04	0.00E+00	1.22E-02	6.23E-04	0.00E+00	3.64E-03	1.12E-04	0.00E+00	1.38E-03	3.62E-05	0.00E+00
4669	457632.8	3768292	0.012265	6.29E-04	0.00E+00	1.23E-02	6.29E-04	0.00E+00	3.67E-03	1.13E-04	0.00E+00	1.39E-03	3.65E-05	0.00E+00
4670	457642.8	3768292	0.012361	6.34E-04	0.00E+00	1.24E-02	6.34E-04	0.00E+00	3.70E-03	1.14E-04	0.00E+00	1.40E-03	3.68E-05	0.00E+00
4671	457652.7	3768292	0.012439	6.38E-04	0.00E+00	1.24E-02	6.38E-04	0.00E+00	3.73E-03	1.15E-04	0.00E+00	1.41E-03	3.70E-05	0.00E+00
4672	457662.7	3768292	0.012489	6.40E-04	0.00E+00	1.25E-02	6.40E-04	0.00E+00	3.74E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
4673	457672.7	3768292	0.012507	6.41E-04	0.00E+00	1.25E-02	6.41E-04	0.00E+00	3.75E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
4674	457682.6	3768292	0.012498	6.41E-04	0.00E+00	1.25E-02	6.41E-04	0.00E+00	3.74E-03	1.15E-04	0.00E+00	1.42E-03	3.72E-05	0.00E+00
4675	457692.6	3768292	0.012466	6.39E-04	0.00E+00	1.25E-02	6.39E-04	0.00E+00	3.73E-03	1.15E-04	0.00E+00	1.41E-03	3.71E-05	0.00E+00
4676	457702.6	3768292	0.01241	6.36E-04	0.00E+00	1.24E-02	6.36E-04	0.00E+00	3.72E-03	1.14E-04	0.00E+00	1.41E-03	3.69E-05	0.00E+00
4677	457282.6	3768285	0.002254	1.16E-04	0.00E+00	2.25E-03	1.16E-04	0.00E+00	6.75E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
4678	457270.9	3768274	0.002305	1.18E-04	0.00E+00	2.31E-03	1.18E-04	0.00E+00	6.90E-04	2.12E-05	0.00E+00	2.62E-04	6.86E-06	0.00E+00
4679	457264	3768257	0.002517	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.54E-04	2.32E-05	0.00E+00	2.86E-04	7.49E-06	0.00E+00
4680	457333.7	3768302	0.002665	1.37E-04	0.00E+00	2.66E-03	1.37E-04	0.00E+00	7.98E-04	2.46E-05	0.00E+00	3.02E-04	7.93E-06	0.00E+00
4681	457343.7	3768302	0.002859	1.47E-04	0.00E+00	2.86E-03	1.47E-04	0.00E+00	8.56E-04	2.64E-05	0.00E+00	3.24E-04	8.51E-06	0.00E+00
4682	457353.6	3768302	0.003083	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.24E-04	2.84E-05	0.00E+00	3.50E-04	9.18E-06	0.00E+00
4683	457363.6	3768302	0.00334	1.71E-04	0.00E+00	3.34E-03	1.71E-04	0.00E+00	1.00E-03	3.08E-05	0.00E+00	3.79E-04	9.94E-06	0.00E+00
4684	457373.6	3768302	0.003628	1.86E-04	0.00E+00	3.63E-03	1.86E-04	0.00E+00	1.09E-03	3.34E-05	0.00E+00	4.12E-04	1.08E-05	0.00E+00
4685	457383.5	3768302	0.003944	2.02E-04	0.00E+00	3.94E-03	2.02E-04	0.00E+00	1.18E-03	3.64E-05	0.00E+00	4.48E-04	1.17E-05	0.00E+00
4686	457393.5	3768302	0.004283	2.20E-04	0.00E+00	4.28E-03	2.20E-04	0.00E+00	1.28E-03	3.95E-05	0.00E+00	4.86E-04	1.27E-05	0.00E+00
4687	457403.5	3768302	0.004636	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.27E-05	0.00E+00	5.26E-04	1.38E-05	0.00E+00
4688	457413.4	3768302	0.005	2.56E-04	0.00E+00	5.00E-03	2.56E-04	0.00E+00	1.50E-03	4.61E-05	0.00E+00	5.67E-04	1.49E-05	0.00E+00
4689	457423.4	3768302	0.005373	2.75E-04	0.00E+00	5.37E-03	2.75E-04	0.00E+00	1.61E-03	4.95E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
4690	457433.4	3768302	0.005749	2.95E-04	0.00E+00	5.75E-03	2.95E-04	0.00E+00	1.72E-03	5.30E-05	0.00E+00	6.52E-04	1.71E-05	0.00E+00
4691	457443.4	3768302	0.006123	3.14E-04	0.00E+00	6.12E-03	3.14E-04	0.00E+00	1.83E-03	5.64E-05	0.00E+00	6.95E-04	1.82E-05	0.00E+00
4692	457453.3	3768302	0.006495	3.33E-04	0.00E+00	6.50E-03	3.33E-04	0.00E+00	1.95E-03	5.99E-05	0.00E+00	7.37E-04	1.93E-05	0.00E+00
4693	457463.3	3768302	0.006864	3.52E-04	0.00E+00	6.86E-03	3.52E-04	0.00E+00	2.06E-03	6.33E-05	0.00E+00	7.79E-04	2.04E-05	0.00E+00
4694	457473.3	3768302	0.007224	3.70E-04	0.00E+00	7.22E-03	3.70E-04	0.00E+00	2.16E-03	6.66E-05	0.00E+00	8.20E-04	2.15E-05	0.00E+00
4695	457483.2	3768302	0.007572	3.88E-04	0.00E+00	7.57E-03	3.88E-04	0.00E+00	2.27E-03	6.98E-05	0.00E+00	8.59E-04	2.25E-05	0.00E+00
4696	457493.2	3768302	0.007908	4.05E-04	0.00E+00	7.91E-03	4.05E-04	0.00E+00	2.37E-03	7.29E-05	0.00E+00	8.97E-04	2.35E-05	0.00E+00
4697	457503.2	3768302	0.008229	4.22E-04	0.00E+00	8.23E-03	4.22E-04	0.00E+00	2.46E-03	7.59E-05	0.00E+00	9.34E-04	2.45E-05	0.00E+00
4698	457513.2	3768302	0.008534	4.38E-04	0.00E+00	8.53E-03	4.38E-04	0.00E+00	2.56E-03	7.87E-05	0.00E+00	9.68E-04	2.54E-05	0.00E+00
4699	457523.1	3768302	0.008817	4.52E-04	0.00E+00	8.82E-03	4.52E-04	0.00E+00	2.64E-03	8.13E-05	0.00E+00	1.00E-03	2.62E-05	0.00E+00
4700	457533.1	3768302	0.009086	4.66E-04	0.00E+00	9.09E-03	4.66E-04	0.00E+00	2.72E-03	8.38E-05	0.00E+00	1.03E-03	2.70E-05	0.00E+00
4701	457543.1	3768302	0.009339	4.79E-04	0.00E+00	9.34E-03	4.79E-04	0.00E+00	2.80E-03	8.61E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00

4702	457553	3768302	0.009577	4.91E-04	0.00E+00	9.58E-03	4.91E-04	0.00E+00	2.87E-03	8.83E-05	0.00E+00	1.09E-03	2.85E-05	0.00E+00
4703	457563	3768302	0.0098	5.02E-04	0.00E+00	9.80E-03	5.02E-04	0.00E+00	2.94E-03	9.03E-05	0.00E+00	1.11E-03	2.92E-05	0.00E+00
4704	457573	3768302	0.010009	5.13E-04	0.00E+00	1.00E-02	5.13E-04	0.00E+00	3.00E-03	9.23E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
4705	457582.9	3768302	0.01021	5.23E-04	0.00E+00	1.02E-02	5.23E-04	0.00E+00	3.06E-03	9.41E-05	0.00E+00	1.16E-03	3.04E-05	0.00E+00
4706	457592.9	3768302	0.010394	5.33E-04	0.00E+00	1.04E-02	5.33E-04	0.00E+00	3.11E-03	9.58E-05	0.00E+00	1.18E-03	3.09E-05	0.00E+00
4707	457602.9	3768302	0.01056	5.41E-04	0.00E+00	1.06E-02	5.41E-04	0.00E+00	3.16E-03	9.73E-05	0.00E+00	1.20E-03	3.14E-05	0.00E+00
4708	457612.9	3768302	0.010704	5.49E-04	0.00E+00	1.07E-02	5.49E-04	0.00E+00	3.21E-03	9.87E-05	0.00E+00	1.21E-03	3.19E-05	0.00E+00
4709	457622.8	3768302	0.010831	5.55E-04	0.00E+00	1.08E-02	5.55E-04	0.00E+00	3.24E-03	9.98E-05	0.00E+00	1.23E-03	3.22E-05	0.00E+00
4710	457632.8	3768302	0.010948	5.61E-04	0.00E+00	1.09E-02	5.61E-04	0.00E+00	3.28E-03	1.01E-04	0.00E+00	1.24E-03	3.26E-05	0.00E+00
4711	457642.8	3768302	0.011053	5.67E-04	0.00E+00	1.11E-02	5.67E-04	0.00E+00	3.31E-03	1.02E-04	0.00E+00	1.25E-03	3.29E-05	0.00E+00
4712	457652.7	3768302	0.011142	5.71E-04	0.00E+00	1.11E-02	5.71E-04	0.00E+00	3.34E-03	1.03E-04	0.00E+00	1.26E-03	3.32E-05	0.00E+00
4713	457662.7	3768302	0.01121	5.75E-04	0.00E+00	1.12E-02	5.75E-04	0.00E+00	3.36E-03	1.03E-04	0.00E+00	1.27E-03	3.34E-05	0.00E+00
4714	457672.7	3768302	0.011254	5.77E-04	0.00E+00	1.13E-02	5.77E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
4715	457682.6	3768302	0.011276	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.36E-05	0.00E+00
4716	457692.6	3768302	0.011277	5.78E-04	0.00E+00	1.13E-02	5.78E-04	0.00E+00	3.38E-03	1.04E-04	0.00E+00	1.28E-03	3.36E-05	0.00E+00
4717	457702.6	3768302	0.011254	5.77E-04	0.00E+00	1.13E-02	5.77E-04	0.00E+00	3.37E-03	1.04E-04	0.00E+00	1.28E-03	3.35E-05	0.00E+00
4718	457283.5	3768296	0.002091	1.07E-04	0.00E+00	2.09E-03	1.07E-04	0.00E+00	6.26E-04	1.93E-05	0.00E+00	2.37E-04	6.22E-06	0.00E+00
4719	457264	3768281	0.002096	1.07E-04	0.00E+00	2.10E-03	1.07E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
4720	457257.2	3768265	0.00227	1.16E-04	0.00E+00	2.27E-03	1.16E-04	0.00E+00	6.80E-04	2.09E-05	0.00E+00	2.58E-04	6.76E-06	0.00E+00
4721	457250.4	3768249	0.002461	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.32E-06	0.00E+00
4722	457333.7	3768312	0.002431	1.25E-04	0.00E+00	2.43E-03	1.25E-04	0.00E+00	7.28E-04	2.24E-05	0.00E+00	2.76E-04	7.24E-06	0.00E+00
4723	457343.7	3768312	0.002593	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.77E-04	2.39E-05	0.00E+00	2.94E-04	7.72E-06	0.00E+00
4724	457353.6	3768312	0.002777	1.42E-04	0.00E+00	2.78E-03	1.42E-04	0.00E+00	8.32E-04	2.56E-05	0.00E+00	3.15E-04	8.26E-06	0.00E+00
4725	457363.6	3768312	0.002987	1.53E-04	0.00E+00	2.99E-03	1.53E-04	0.00E+00	8.95E-04	2.75E-05	0.00E+00	3.39E-04	8.89E-06	0.00E+00
4726	457373.6	3768312	0.003221	1.65E-04	0.00E+00	3.22E-03	1.65E-04	0.00E+00	9.65E-04	2.97E-05	0.00E+00	3.65E-04	9.59E-06	0.00E+00
4727	457383.5	3768312	0.003481	1.78E-04	0.00E+00	3.48E-03	1.78E-04	0.00E+00	1.04E-03	3.21E-05	0.00E+00	3.95E-04	1.04E-05	0.00E+00
4728	457393.5	3768312	0.003758	1.93E-04	0.00E+00	3.76E-03	1.93E-04	0.00E+00	1.13E-03	3.46E-05	0.00E+00	4.26E-04	1.12E-05	0.00E+00
4729	457403.5	3768312	0.004048	2.08E-04	0.00E+00	4.05E-03	2.08E-04	0.00E+00	1.21E-03	3.73E-05	0.00E+00	4.59E-04	1.20E-05	0.00E+00
4730	457413.5	3768312	0.004351	2.23E-04	0.00E+00	4.35E-03	2.23E-04	0.00E+00	1.30E-03	4.01E-05	0.00E+00	4.94E-04	1.29E-05	0.00E+00
4731	457423.4	3768312	0.004667	2.39E-04	0.00E+00	4.67E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.29E-04	1.39E-05	0.00E+00
4732	457433.4	3768312	0.004994	2.56E-04	0.00E+00	4.99E-03	2.56E-04	0.00E+00	1.50E-03	4.60E-05	0.00E+00	5.67E-04	1.49E-05	0.00E+00
4733	457443.4	3768312	0.005322	2.73E-04	0.00E+00	5.32E-03	2.73E-04	0.00E+00	1.59E-03	4.91E-05	0.00E+00	6.04E-04	1.58E-05	0.00E+00
4734	457453.3	3768312	0.005652	2.90E-04	0.00E+00	5.65E-03	2.90E-04	0.00E+00	1.69E-03	5.21E-05	0.00E+00	6.41E-04	1.68E-05	0.00E+00
4735	457463.3	3768312	0.005978	3.06E-04	0.00E+00	5.98E-03	3.06E-04	0.00E+00	1.79E-03	5.51E-05	0.00E+00	6.78E-04	1.78E-05	0.00E+00
4736	457473.3	3768312	0.0063	3.23E-04	0.00E+00	6.30E-03	3.23E-04	0.00E+00	1.89E-03	5.81E-05	0.00E+00	7.15E-04	1.87E-05	0.00E+00
4737	457483.2	3768312	0.006614	3.39E-04	0.00E+00	6.61E-03	3.39E-04	0.00E+00	1.98E-03	6.10E-05	0.00E+00	7.50E-04	1.97E-05	0.00E+00
4738	457493.2	3768312	0.00692	3.55E-04	0.00E+00	6.92E-03	3.55E-04	0.00E+00	2.07E-03	6.38E-05	0.00E+00	7.85E-04	2.06E-05	0.00E+00
4739	457503.2	3768312	0.007215	3.70E-04	0.00E+00	7.21E-03	3.70E-04	0.00E+00	2.16E-03	6.65E-05	0.00E+00	8.19E-04	2.15E-05	0.00E+00
4740	457513.2	3768312	0.007495	3.84E-04	0.00E+00	7.50E-03	3.84E-04	0.00E+00	2.24E-03	6.91E-05	0.00E+00	8.50E-04	2.23E-05	0.00E+00
4741	457523.1	3768312	0.007755	3.98E-04	0.00E+00	7.75E-03	3.98E-04	0.00E+00	2.32E-03	7.15E-05	0.00E+00	8.80E-04	2.31E-05	0.00E+00
4742	457533.1	3768312	0.008002	4.10E-04	0.00E+00	8.00E-03	4.10E-04	0.00E+00	2.40E-03	7.38E-05	0.00E+00	9.08E-04	2.38E-05	0.00E+00
4743	457543.1	3768312	0.008241	4.22E-04	0.00E+00	8.24E-03	4.22E-04	0.00E+00	2.47E-03	7.60E-05	0.00E+00	9.35E-04	2.45E-05	0.00E+00
4744	457553	3768312	0.008473	4.34E-04	0.00E+00	8.47E-03	4.34E-04	0.00E+00	2.54E-03	7.81E-05	0.00E+00	9.61E-04	2.52E-05	0.00E+00
4745	457563	3768312	0.008692	4.46E-04	0.00E+00	8.69E-03	4.46E-04	0.00E+00	2.60E-03	8.01E-05	0.00E+00	9.86E-04	2.59E-05	0.00E+00
4746	457573	3768312	0.008898	4.56E-04	0.00E+00	8.90E-03	4.56E-04	0.00E+00	2.67E-03	8.20E-05	0.00E+00	1.01E-03	2.65E-05	0.00E+00
4747	457582.9	3768312	0.009093	4.66E-04	0.00E+00	9.09E-03	4.66E-04	0.00E+00	2.72E-03	8.38E-05	0.00E+00	1.03E-03	2.71E-05	0.00E+00
4748	457592.9	3768312	0.009273	4.75E-04	0.00E+00	9.27E-03	4.75E-04	0.00E+00	2.78E-03	8.55E-05	0.00E+00	1.05E-03	2.76E-05	0.00E+00
4749	457602.9	3768312	0.009437	4.84E-04	0.00E+00	9.44E-03	4.84E-04	0.00E+00	2.83E-03	8.70E-05	0.00E+00	1.07E-03	2.81E-05	0.00E+00
4750	457612.9	3768312	0.009577	4.91E-04	0.00E+00	9.58E-03	4.91E-04	0.00E+00	2.87E-03	8.83E-05	0.00E+00	1.09E-03	2.85E-05	0.00E+00
4751	457622.8	3768312	0.009703	4.97E-04	0.00E+00	9.70E-03	4.97E-04	0.00E+00	2.91E-03	8.94E-05	0.00E+00	1.10E-03	2.89E-05	0.00E+00
4752	457632.8	3768312	0.00982	5.03E-04	0.00E+00	9.82E-03	5.03E-04	0.00E+00	2.94E-03	9.05E-05	0.00E+00	1.11E-03	2.92E-05	0.00E+00
4753	457642.8	3768312	0.009932	5.09E-04	0.00E+00	9.93E-03	5.09E-04	0.00E+00	2.97E-03	9.16E-05	0.00E+00	1.13E-03	2.96E-05	0.00E+00
4754	457652.7	3768312	0.01003	5.14E-04	0.00E+00	1.00E-02	5.14E-04	0.00E+00	3.00E-03	9.25E-05	0.00E+00	1.14E-03	2.98E-05	0.00E+00
4755	457662.7	3768312	0.01011	5.18E-04	0.00E+00	1.01E-02	5.18E-04	0.00E+00	3.03E-03	9.32E-05	0.00E+00	1.15E-03	3.01E-05	0.00E+00
4756	457672.7	3768312	0.010174	5.22E-04	0.00E+00	1.02E-02	5.22E-04	0.00E+00	3.05E-03	9.38E-05	0.00E+00	1.15E-03	3.03E-05	0.00E+00
4757	457682.7	3768312	0.010218	5.24E-04	0.00E+00	1.02E-02	5.24E-04	0.00E+00	3.06E-03	9.42E-05	0.00E+00	1.16E-03	3.04E-05	0.00E+00
4758	457692.6	3768312	0.010244	5.25E-04	0.00E+00	1.02E-02	5.25E-04	0.00E+00	3.07E-03	9.44E-05	0.00E+00	1.16E-03	3.05E-05	0.00E+00
4759	457702.6	3768312	0.010247	5.25E-04	0.00E+00	1.02E-02	5.25E-04	0.00E+00	3.07E-03	9.45E-05	0.00E+00	1.16E-03	3.05E-05	0.00E+00
4760	457296.5	3768311	0.001994	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
4761	457287.5	3768307	0.001958	1.00E-04	0.00E+00	1.96E-03	1.00E-04	0.00E+00	5.86E-04	1.80E-05	0.00E+00	2.22E-04	5.83E-06	0.00E+00
4762	457278.4	3768304	0.001922	9.85E-05	0.00E+00	1.92E-03	9.85E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.72E-06	0.00E+00
4763	457269.4	3768300	0.001886	9.67E-05	0.00E+00	1.89E-03	9.67E-05	0.00E+00	5.65E-04	1.74E-05	0.00E+00	2.14E-04	5.61E-06	0.00E+00
4764	457256.5	3768287	0.001928	9.88E-05	0.00E+00	1.93E-03	9.88E-05	0.00E+00	5.77E-04	1.78E-05	0.00E+00	2.19E-04	5.74E-06	0.00E+00
4765	457252.7	3768278	0.002011	1.03E-04	0.00E+00	2.01E-03	1.03E-04	0.00E+00	6.02E-04	1.85E-05	0.00E+00	2.28E-04	5.98E-06	0.00E+00
4766	457248.9	3768269	0.002098	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.28E-04	1.93E-05	0.00E+00	2.38E-04	6.24E-06	0.00E+00
4767	457245.1	3768260	0.002189	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.56E-04	2.02E-05	0.00E+00	2.48E-04	6.51E-06	0.00E+00
4768	457241.3	3768251	0.002284	1.17E-04	0.00E+00	2.28E-03	1.17E-04	0.00E+00	6.84E-04	2.11E-05	0.00E+00	2.59E-04	6.80E-06	0.00E+00
4769	457237.5	3768242	0.002381	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.13E-04	2.19E-05	0.00E+00	2.70E-04	7.09E-06	0.00E+00
4770	457333.7	3768322	0.002231	1.14E-04	0.00E+00	2.23E-03	1.14E-04	0.00E+00	6.68E-04	2.06E-05	0.00E+00	2.53E-04	6.64E-06	0.00E+00
4771	457343.7	3768322	0.002367	1.21E-04	0.00E+00	2.37E-03	1.21E-04	0.00E+00	7.09E-04	2.18E-05	0.00E+00	2.69E-04	7.04E-06	0.00E+00
4772	457353.6	3768322	0.002519	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.55E-04	2.32E-05	0.00E+00	2.86E-04	7.50E-06	0.00E+00
4773	457363.6	3768322	0.002692	1.38E-04	0.00E+00	2.69E-03	1.38E-04	0.00E+00	8.06E-04	2.48E-05	0.00E+00	3.05E-04	8.01E-06	0.00E+00
4774	457373.6	3768322	0.002886	1.48E-04	0.00E+00	2.89E-03	1.48E-04	0.00E+00	8.64E-04	2.66E-05	0.00E+00	3.27E-04	8.59E-06	0.00E+00
4775	457383.5	3768322	0.0031	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.28E-04	2.86E-05	0.00E+00	3.52E-04	9.22E-06	0.00E+00
4776	457393.5	3768322	0.00333	1.71E-04	0.00E+00	3.33E-03	1.71E-04	0.00E+00	9.97E-04	3.07E-05	0.00E+00	3.78E-04	9.91E-06	0.00E+00
4777	457403.5	3768322	0.003574	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
4778	457413.5	3768322	0.00383	1.96E-04	0.00E+00	3.83E-03	1.96E-04	0.00E+00	1.15E-03	3.53E-05	0.00E+00	4.35E-04	1.14E-05	0.00E+00
4779	457423.4	3768322	0.0041	2.10E-04	0.00E+00	4.10E-03	2.10E-04	0.00E+00	1.23E-03	3.78E-05	0.00E+00	4.65E-04	1.22E-05	0.00E+00
4780	457433.4	3768322	0.004382	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
4781	457443.4	3768322	0.004668	2.39E-04	0.00E+00	4.67E-03	2.39E-04	0.00E+00	1.40E-03	4.30E-05	0.00E+00	5.30E-04	1.39E-05	0.00E+00
4782	457453.3	3768322	0.004958	2.54E-04	0.00E+00	4.96E-03	2.54E-04	0.00E+00	1.48E-03	4.57E-05	0.00E+00	5.62E-04	1.48E-05	0.00E+00
4783	457463.3	3768322	0.005247	2.69E-04	0.00E+00	5.25E-03	2.69E-04	0.00E+00	1.57E-03	4.84E-05	0.00E+00	5.95E-04	1.56E-05	0.00E+00
4784	457473.3	3768322	0.005534	2.84E-04	0.00E+00	5.53E-03	2.84E-04	0.00E+00	1.66E-03	5.10E-05	0.00E+00	6.28E-04	1.65E-05	0.00E+00
4785	457483.2	3768322	0.005815	2.98E-04	0.00E+00	5.82E-03	2.98E-04	0.00E+00	1.74E-03	5.36E-05	0.00E+00	6.60E-04	1.73E-05	0.00E+00
4786	457493.2	3768322	0.00609	3.12E-04	0.00E+00	6.09E-03	3.12E-04	0.00E+00	1.82E-03	5.61E-05	0.00E+00	6.91E-04	1.81E-05	0.00E+00
4787	457503.2	3768322	0.006358	3.26E-04	0.00E+00	6.36E-03	3.26E-04	0.00E+00	1.90E-03	5.86E-05	0.00E+00	7.21E-04	1.89E-05	0.00E+00
4788	457513.2	3768322	0.006615	3.39E-04	0.00E+00	6.61E-03	3.39E-04	0.00E+00	1.98E-03	6.10E-05	0.00E+00	7.50E-04	1.97E-05	0.00E+00
4789	457523.1	3768322	0.006857	3.52E-04	0.00E+00	6.86E-03	3.52E-04	0.00E+00	2.05E-03	6.32E-05	0.00E+00	7.78E-04	2.04E-05	0.00E+00
4790	457533.1	3768322	0.007089	3.63E-04	0.00E+00	7.09E-03	3.63E-04	0.00E+00	2.12E-03	6.53E-05	0.00E+00	8.04E-04	2.11E-05	0.00E+00
4791	457543.1	3768322	0.007315	3.75E-04	0.00E+00	7.31E-03	3.75E-04	0.00E+00	2.19E-03	6.74E-05	0.00E+00	8.30E-04	2.18E-05	0.00E+00
4792	457553	3768322	0.007536	3.86E-04	0.00E+00	7.54E-03	3.86E-04	0.00E+00	2.26E-03	6.95E-05	0.00E+00	8.55E-04	2.24E-05	0.00E+00
4793	457563	3768322	0.007747	3.97E-04	0.00E+00	7.75E-03	3.97E-04	0.00E+00	2.32E-03	7.14E-05	0.00E+00	8.79E-04	2.31E-05	0.00E+00
4794	457573	3768322	0.007945	4.07E-04	0.00E+00	7.94E-03	4.07E-04	0.00E+00	2.38E-03	7.32E-05	0.00E+00	9.01E-04	2.36E-05	0.00E+00
4795	457583	3768322	0.00813	4.17E-04	0.00E+00	8.13E-03	4.17E-04	0.00E+00	2.44E-03	7.49E-05	0.00E+00	9.22E-04	2.42E-05	0.00E+00
4796	457592.9	3768322	0.008303	4.26E-04	0.00E+00	8.30E-03	4.26E-04	0.00E+00	2.49E-03	7.65E-05	0.00E+00	9.42E-04	2.47E-05	0.00E+00
4797	457602.9	3768322	0.008463	4.34E-04	0.00E+00	8.46E-03	4.34E-04	0.00E+00	2.53E-03	7.80E-05	0.00E+00	9.60E-04	2.52E-05	0.00E+00

4798	457612.9	3768322	0.008604	4.41E-04	0.00E+00	8.60E-03	4.41E-04	0.00E+00	2.58E-03	7.93E-05	0.00E+00	9.76E-04	2.56E-05	0.00E+00
4799	457622.8	3768322	0.008733	4.48E-04	0.00E+00	8.73E-03	4.48E-04	0.00E+00	2.62E-03	8.05E-05	0.00E+00	9.91E-04	2.60E-05	0.00E+00
4800	457632.8	3768322	0.008854	4.54E-04	0.00E+00	8.85E-03	4.54E-04	0.00E+00	2.65E-03	8.16E-05	0.00E+00	1.00E-03	2.63E-05	0.00E+00
4801	457642.8	3768322	0.008969	4.60E-04	0.00E+00	8.97E-03	4.60E-04	0.00E+00	2.69E-03	8.27E-05	0.00E+00	1.02E-03	2.67E-05	0.00E+00
4802	457652.7	3768322	0.009073	4.65E-04	0.00E+00	9.07E-03	4.65E-04	0.00E+00	2.72E-03	8.36E-05	0.00E+00	1.03E-03	2.70E-05	0.00E+00
4803	457662.7	3768322	0.009162	4.70E-04	0.00E+00	9.16E-03	4.70E-04	0.00E+00	2.74E-03	8.45E-05	0.00E+00	1.04E-03	2.73E-05	0.00E+00
4804	457672.7	3768322	0.009237	4.74E-04	0.00E+00	9.24E-03	4.74E-04	0.00E+00	2.77E-03	8.51E-05	0.00E+00	1.05E-03	2.75E-05	0.00E+00
4805	457682.7	3768322	0.009296	4.77E-04	0.00E+00	9.30E-03	4.77E-04	0.00E+00	2.78E-03	8.57E-05	0.00E+00	1.05E-03	2.77E-05	0.00E+00
4806	457692.6	3768322	0.009337	4.79E-04	0.00E+00	9.34E-03	4.79E-04	0.00E+00	2.80E-03	8.61E-05	0.00E+00	1.06E-03	2.78E-05	0.00E+00
4807	457288.5	3768318	0.001828	9.37E-05	0.00E+00	1.83E-03	9.37E-05	0.00E+00	5.47E-04	1.68E-05	0.00E+00	2.07E-04	5.44E-06	0.00E+00
4808	457279.7	3768314	0.001797	9.21E-05	0.00E+00	1.80E-03	9.21E-05	0.00E+00	5.38E-04	1.66E-05	0.00E+00	2.04E-04	5.35E-06	0.00E+00
4809	457270.9	3768310	0.001767	9.06E-05	0.00E+00	1.77E-03	9.06E-05	0.00E+00	5.29E-04	1.63E-05	0.00E+00	2.00E-04	5.26E-06	0.00E+00
4810	457262.1	3768307	0.001737	8.90E-05	0.00E+00	1.74E-03	8.90E-05	0.00E+00	5.20E-04	1.60E-05	0.00E+00	1.97E-04	5.17E-06	0.00E+00
4811	457249.6	3768294	0.001773	9.09E-05	0.00E+00	1.77E-03	9.09E-05	0.00E+00	5.31E-04	1.63E-05	0.00E+00	2.01E-04	5.28E-06	0.00E+00
4812	457245.9	3768286	0.001843	9.45E-05	0.00E+00	1.84E-03	9.45E-05	0.00E+00	5.52E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
4813	457242.2	3768277	0.001916	9.82E-05	0.00E+00	1.92E-03	9.82E-05	0.00E+00	5.74E-04	1.77E-05	0.00E+00	2.17E-04	5.70E-06	0.00E+00
4814	457238.5	3768268	0.001992	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
4815	457234.8	3768259	0.002071	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
4816	457231.1	3768250	0.002152	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.45E-04	1.98E-05	0.00E+00	2.44E-04	6.40E-06	0.00E+00
4817	457227.4	3768242	0.002235	1.15E-04	0.00E+00	2.23E-03	1.15E-04	0.00E+00	6.69E-04	2.06E-05	0.00E+00	2.54E-04	6.65E-06	0.00E+00
4818	457333.7	3768332	0.002058	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.16E-04	1.90E-05	0.00E+00	2.34E-04	6.12E-06	0.00E+00
4819	457343.7	3768332	0.002172	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.51E-04	2.00E-05	0.00E+00	2.46E-04	6.46E-06	0.00E+00
4820	457353.6	3768332	0.0023	1.18E-04	0.00E+00	2.30E-03	1.18E-04	0.00E+00	6.89E-04	2.12E-05	0.00E+00	2.61E-04	6.84E-06	0.00E+00
4821	457363.6	3768332	0.002444	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.27E-06	0.00E+00
4822	457373.6	3768332	0.002605	1.34E-04	0.00E+00	2.61E-03	1.34E-04	0.00E+00	7.80E-04	2.40E-05	0.00E+00	2.96E-04	7.75E-06	0.00E+00
4823	457383.6	3768332	0.002784	1.43E-04	0.00E+00	2.78E-03	1.43E-04	0.00E+00	8.34E-04	2.57E-05	0.00E+00	3.16E-04	8.28E-06	0.00E+00
4824	457393.5	3768332	0.002978	1.53E-04	0.00E+00	2.98E-03	1.53E-04	0.00E+00	8.92E-04	2.75E-05	0.00E+00	3.38E-04	8.86E-06	0.00E+00
4825	457403.5	3768332	0.003185	1.63E-04	0.00E+00	3.19E-03	1.63E-04	0.00E+00	9.54E-04	2.94E-05	0.00E+00	3.61E-04	9.48E-06	0.00E+00
4826	457413.5	3768332	0.003405	1.75E-04	0.00E+00	3.41E-03	1.75E-04	0.00E+00	1.02E-03	3.14E-05	0.00E+00	3.86E-04	1.01E-05	0.00E+00
4827	457423.4	3768332	0.003637	1.86E-04	0.00E+00	3.64E-03	1.86E-04	0.00E+00	1.09E-03	3.35E-05	0.00E+00	4.13E-04	1.08E-05	0.00E+00
4828	457433.4	3768332	0.00388	1.99E-04	0.00E+00	3.88E-03	1.99E-04	0.00E+00	1.16E-03	3.58E-05	0.00E+00	4.40E-04	1.15E-05	0.00E+00
4829	457443.4	3768332	0.004129	2.12E-04	0.00E+00	4.13E-03	2.12E-04	0.00E+00	1.24E-03	3.81E-05	0.00E+00	4.68E-04	1.23E-05	0.00E+00
4830	457453.3	3768332	0.004382	2.25E-04	0.00E+00	4.38E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.97E-04	1.30E-05	0.00E+00
4831	457463.3	3768332	0.004637	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.27E-05	0.00E+00	5.26E-04	1.38E-05	0.00E+00
4832	457473.3	3768332	0.004893	2.51E-04	0.00E+00	4.89E-03	2.51E-04	0.00E+00	1.47E-03	4.51E-05	0.00E+00	5.55E-04	1.46E-05	0.00E+00
4833	457483.3	3768332	0.005145	2.64E-04	0.00E+00	5.14E-03	2.64E-04	0.00E+00	1.54E-03	4.74E-05	0.00E+00	5.84E-04	1.53E-05	0.00E+00
4834	457493.2	3768332	0.00539	2.76E-04	0.00E+00	5.39E-03	2.76E-04	0.00E+00	1.61E-03	4.97E-05	0.00E+00	6.12E-04	1.60E-05	0.00E+00
4835	457503.2	3768332	0.00563	2.89E-04	0.00E+00	5.63E-03	2.89E-04	0.00E+00	1.69E-03	5.19E-05	0.00E+00	6.39E-04	1.68E-05	0.00E+00
4836	457513.2	3768332	0.005865	3.01E-04	0.00E+00	5.86E-03	3.01E-04	0.00E+00	1.76E-03	5.41E-05	0.00E+00	6.65E-04	1.75E-05	0.00E+00
4837	457523.1	3768332	0.006092	3.12E-04	0.00E+00	6.09E-03	3.12E-04	0.00E+00	1.82E-03	5.62E-05	0.00E+00	6.91E-04	1.81E-05	0.00E+00
4838	457533.1	3768332	0.006312	3.24E-04	0.00E+00	6.31E-03	3.24E-04	0.00E+00	1.89E-03	5.82E-05	0.00E+00	7.16E-04	1.88E-05	0.00E+00
4839	457543.1	3768332	0.006526	3.35E-04	0.00E+00	6.53E-03	3.35E-04	0.00E+00	1.95E-03	6.02E-05	0.00E+00	7.40E-04	1.94E-05	0.00E+00
4840	457553	3768332	0.006734	3.45E-04	0.00E+00	6.73E-03	3.45E-04	0.00E+00	2.02E-03	6.21E-05	0.00E+00	7.64E-04	2.00E-05	0.00E+00
4841	457563	3768332	0.006933	3.55E-04	0.00E+00	6.93E-03	3.55E-04	0.00E+00	2.08E-03	6.39E-05	0.00E+00	7.87E-04	2.06E-05	0.00E+00
4842	457573	3768332	0.007121	3.65E-04	0.00E+00	7.12E-03	3.65E-04	0.00E+00	2.13E-03	6.56E-05	0.00E+00	8.08E-04	2.12E-05	0.00E+00
4843	457583	3768332	0.007295	3.74E-04	0.00E+00	7.30E-03	3.74E-04	0.00E+00	2.19E-03	6.73E-05	0.00E+00	8.28E-04	2.17E-05	0.00E+00
4844	457592.9	3768332	0.007459	3.82E-04	0.00E+00	7.46E-03	3.82E-04	0.00E+00	2.23E-03	6.88E-05	0.00E+00	8.46E-04	2.22E-05	0.00E+00
4845	457602.9	3768332	0.007613	3.90E-04	0.00E+00	7.61E-03	3.90E-04	0.00E+00	2.28E-03	7.02E-05	0.00E+00	8.64E-04	2.27E-05	0.00E+00
4846	457612.9	3768332	0.007757	3.98E-04	0.00E+00	7.76E-03	3.98E-04	0.00E+00	2.32E-03	7.15E-05	0.00E+00	8.80E-04	2.31E-05	0.00E+00
4847	457622.8	3768332	0.00789	4.05E-04	0.00E+00	7.89E-03	4.05E-04	0.00E+00	2.36E-03	7.27E-05	0.00E+00	8.95E-04	2.35E-05	0.00E+00
4848	457632.8	3768332	0.008015	4.11E-04	0.00E+00	8.02E-03	4.11E-04	0.00E+00	2.40E-03	7.39E-05	0.00E+00	9.09E-04	2.39E-05	0.00E+00
4849	457642.8	3768332	0.008133	4.17E-04	0.00E+00	8.13E-03	4.17E-04	0.00E+00	2.44E-03	7.50E-05	0.00E+00	9.23E-04	2.42E-05	0.00E+00
4850	457652.7	3768332	0.008239	4.22E-04	0.00E+00	8.24E-03	4.22E-04	0.00E+00	2.47E-03	7.60E-05	0.00E+00	9.35E-04	2.45E-05	0.00E+00
4851	457662.7	3768332	0.008333	4.27E-04	0.00E+00	8.33E-03	4.27E-04	0.00E+00	2.50E-03	7.68E-05	0.00E+00	9.45E-04	2.48E-05	0.00E+00
4852	457672.7	3768332	0.008416	4.31E-04	0.00E+00	8.42E-03	4.31E-04	0.00E+00	2.52E-03	7.76E-05	0.00E+00	9.55E-04	2.50E-05	0.00E+00
4853	457682.7	3768332	0.008483	4.35E-04	0.00E+00	8.48E-03	4.35E-04	0.00E+00	2.54E-03	7.82E-05	0.00E+00	9.62E-04	2.52E-05	0.00E+00
4854	457692.6	3768332	0.008536	4.38E-04	0.00E+00	8.54E-03	4.38E-04	0.00E+00	2.56E-03	7.87E-05	0.00E+00	9.68E-04	2.54E-05	0.00E+00
4855	457702.6	3768332	0.008566	4.39E-04	0.00E+00	8.57E-03	4.39E-04	0.00E+00	2.57E-03	7.90E-05	0.00E+00	9.72E-04	2.55E-05	0.00E+00
4856	457232	3768312	0.00147	7.54E-05	0.00E+00	1.47E-03	7.54E-05	0.00E+00	4.40E-04	1.35E-05	0.00E+00	1.67E-04	4.37E-06	0.00E+00
4857	457228.3	3768303	0.001521	7.80E-05	0.00E+00	1.52E-03	7.80E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
4858	457224.6	3768295	0.001574	8.07E-05	0.00E+00	1.57E-03	8.07E-05	0.00E+00	4.71E-04	1.45E-05	0.00E+00	1.79E-04	4.68E-06	0.00E+00
4859	457220.9	3768286	0.001628	8.35E-05	0.00E+00	1.63E-03	8.35E-05	0.00E+00	4.88E-04	1.50E-05	0.00E+00	1.85E-04	4.84E-06	0.00E+00
4860	457217.2	3768277	0.001684	8.63E-05	0.00E+00	1.68E-03	8.63E-05	0.00E+00	5.04E-04	1.55E-05	0.00E+00	1.91E-04	5.01E-06	0.00E+00
4861	457213.5	3768268	0.001742	8.93E-05	0.00E+00	1.74E-03	8.93E-05	0.00E+00	5.22E-04	1.61E-05	0.00E+00	1.98E-04	5.18E-06	0.00E+00
4862	457209.8	3768259	0.001802	9.24E-05	0.00E+00	1.80E-03	9.24E-05	0.00E+00	5.40E-04	1.66E-05	0.00E+00	2.04E-04	5.36E-06	0.00E+00
4863	457206.1	3768251	0.001863	9.55E-05	0.00E+00	1.86E-03	9.55E-05	0.00E+00	5.58E-04	1.72E-05	0.00E+00	2.11E-04	5.54E-06	0.00E+00
4864	457202.4	3768242	0.001925	9.87E-05	0.00E+00	1.92E-03	9.87E-05	0.00E+00	5.76E-04	1.77E-05	0.00E+00	2.18E-04	5.73E-06	0.00E+00
4865	457333.7	3768357	0.001711	8.77E-05	0.00E+00	1.71E-03	8.77E-05	0.00E+00	5.12E-04	1.58E-05	0.00E+00	1.94E-04	5.09E-06	0.00E+00
4866	457343.7	3768357	0.00179	9.18E-05	0.00E+00	1.79E-03	9.18E-05	0.00E+00	5.36E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
4867	457353.7	3768357	0.001877	9.62E-05	0.00E+00	1.88E-03	9.62E-05	0.00E+00	5.62E-04	1.73E-05	0.00E+00	2.13E-04	5.59E-06	0.00E+00
4868	457363.6	3768357	0.001975	1.01E-04	0.00E+00	1.97E-03	1.01E-04	0.00E+00	5.91E-04	1.82E-05	0.00E+00	2.24E-04	5.88E-06	0.00E+00
4869	457373.6	3768357	0.002083	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
4870	457383.6	3768357	0.002202	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.60E-04	2.03E-05	0.00E+00	2.50E-04	6.55E-06	0.00E+00
4871	457393.5	3768357	0.002332	1.20E-04	0.00E+00	2.33E-03	1.20E-04	0.00E+00	6.99E-04	2.15E-05	0.00E+00	2.65E-04	6.94E-06	0.00E+00
4872	457403.5	3768357	0.002473	1.27E-04	0.00E+00	2.47E-03	1.27E-04	0.00E+00	7.41E-04	2.28E-05	0.00E+00	2.81E-04	7.36E-06	0.00E+00
4873	457413.5	3768357	0.002625	1.35E-04	0.00E+00	2.62E-03	1.35E-04	0.00E+00	7.86E-04	2.42E-05	0.00E+00	2.98E-04	7.81E-06	0.00E+00
4874	457423.4	3768357	0.002785	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.34E-04	2.57E-05	0.00E+00	3.16E-04	8.29E-06	0.00E+00
4875	457433.4	3768357	0.002955	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.85E-04	2.72E-05	0.00E+00	3.35E-04	8.79E-06	0.00E+00
4876	457443.4	3768357	0.003131	1.61E-04	0.00E+00	3.13E-03	1.61E-04	0.00E+00	9.38E-04	2.89E-05	0.00E+00	3.55E-04	9.32E-06	0.00E+00
4877	457453.4	3768357	0.003313	1.70E-04	0.00E+00	3.31E-03	1.70E-04	0.00E+00	9.92E-04	3.05E-05	0.00E+00	3.76E-04	9.86E-06	0.00E+00
4878	457463.3	3768357	0.003498	1.79E-04	0.00E+00	3.50E-03	1.79E-04	0.00E+00	1.05E-03	3.22E-05	0.00E+00	3.97E-04	1.04E-05	0.00E+00
4879	457473.3	3768357	0.003686	1.89E-04	0.00E+00	3.69E-03	1.89E-04	0.00E+00	1.10E-03	3.40E-05	0.00E+00	4.18E-04	1.10E-05	0.00E+00
4880	457483.3	3768357	0.003875	1.99E-04	0.00E+00	3.87E-03	1.99E-04	0.00E+00	1.16E-03	3.57E-05	0.00E+00	4.40E-04	1.15E-05	0.00E+00
4881	457493.2	3768357	0.004063	2.08E-04	0.00E+00	4.06E-03	2.08E-04	0.00E+00	1.22E-03	3.75E-05	0.00E+00	4.61E-04	1.21E-05	0.00E+00
4882	457503.2	3768357	0.00425	2.18E-04	0.00E+00	4.25E-03	2.18E-04	0.00E+00	1.27E-03	3.92E-05	0.00E+00	4.82E-04	1.26E-05	0.00E+00
4883	457513.2	3768357	0.004438	2.28E-04	0.00E+00	4.44E-03	2.28E-04	0.00E+00	1.33E-03	4.09E-05	0.00E+00	5.03E-04	1.32E-05	0.00E+00
4884	457523.1	3768357	0.004625	2.37E-04	0.00E+00	4.63E-03	2.37E-04	0.00E+00	1.39E-03	4.26E-05	0.00E+00	5.25E-04	1.38E-05	0.00E+00
4885	457533.1	3768357	0.004809	2.47E-04	0.00E+00	4.81E-03	2.47E-04	0.00E+00	1.44E-03	4.43E-05	0.00E+00	5.46E-04	1.43E-05	0.00E+00
4886	457543.1	3768357	0.004989	2.56E-04	0.00E+00	4.99E-03	2.56E-04	0.00E+00	1.49E-03	4.60E-05	0.00E+00	5.66E-04	1.48E-05	0.00E+00
4887	457553.1	3768357	0.005162	2.65E-04	0.00E+00	5.16E-03	2.65E-04	0.00E+00	1.55E-03	4.76E-05	0.00E+00	5.86E-04	1.54E-05	0.00E+00
4888	457563	3768357	0.00533	2.73E-04	0.00E+00	5.33E-03	2.73E-04	0.00E+00	1.60E-03	4.91E-05	0.00E+00	6.05E-04	1.59E-05	0.00E+00
4889	457573	3768357	0.005491	2.82E-04	0.00E+00	5.49E-03	2.82E-04	0.00E+00	1.64E-03	5.06E-05	0.00E+00	6.23E-04	1.63E-05	0.00E+00
4890	457583	3768357	0.005645	2.89E-04	0.00E+00	5.65E-03	2.89E-04	0.00E+00	1.69E-03	5.20E-05	0.00E+00	6.40E-04	1.68E-05	0.00E+00
4891	457592.9	3768357	0.005792	2.97E-04	0.00E+00	5.79E-03	2.97E-04	0.00E+00	1.73E-03	5.34E-05	0.00E+00	6.57E-04	1.72E-05	0.00E+00
4892	457602.9	3768357	0.005935	3.04E-04	0.00E+00	5.93E-03	3.04E-04	0.00E+00	1.78E-03	5.47E-05	0.00E+00	6.73E-04	1.77E-05	0.00E+00
4893	457612.9	3768357	0.006073	3.11E-04	0.00E+00	6.07E-03	3.11E-04	0.00E+00	1.82E-03	5.60E-05	0.00E+00	6.89E-04	1.81E-05	0.00E+00

4894	457622.8	3768357	0.006204	3.18E-04	0.00E+00	6.20E-03	3.18E-04	0.00E+00	1.86E-03	5.72E-05	0.00E+00	7.04E-04	1.85E-05	0.00E+00
4895	457632.8	3768357	0.006329	3.24E-04	0.00E+00	6.33E-03	3.24E-04	0.00E+00	1.90E-03	5.83E-05	0.00E+00	7.18E-04	1.88E-05	0.00E+00
4896	457642.8	3768357	0.006445	3.30E-04	0.00E+00	6.44E-03	3.30E-04	0.00E+00	1.93E-03	5.94E-05	0.00E+00	7.31E-04	1.92E-05	0.00E+00
4897	457652.8	3768357	0.006553	3.36E-04	0.00E+00	6.55E-03	3.36E-04	0.00E+00	1.96E-03	6.04E-05	0.00E+00	7.43E-04	1.95E-05	0.00E+00
4898	457662.7	3768357	0.006651	3.41E-04	0.00E+00	6.65E-03	3.41E-04	0.00E+00	1.99E-03	6.13E-05	0.00E+00	7.55E-04	1.98E-05	0.00E+00
4899	457672.7	3768357	0.006739	3.46E-04	0.00E+00	6.74E-03	3.46E-04	0.00E+00	2.02E-03	6.21E-05	0.00E+00	7.65E-04	2.01E-05	0.00E+00
4900	457682.7	3768357	0.006817	3.49E-04	0.00E+00	6.82E-03	3.49E-04	0.00E+00	2.04E-03	6.28E-05	0.00E+00	7.73E-04	2.03E-05	0.00E+00
4901	457692.6	3768357	0.006884	3.53E-04	0.00E+00	6.88E-03	3.53E-04	0.00E+00	2.06E-03	6.35E-05	0.00E+00	7.81E-04	2.05E-05	0.00E+00
4902	457702.6	3768357	0.006938	3.56E-04	0.00E+00	6.94E-03	3.56E-04	0.00E+00	2.08E-03	6.40E-05	0.00E+00	7.87E-04	2.06E-05	0.00E+00
4903	457210.7	3768321	0.001285	6.59E-05	0.00E+00	1.28E-03	6.59E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
4904	457207	3768312	0.001324	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
4905	457203.3	3768304	0.001365	7.00E-05	0.00E+00	1.37E-03	7.00E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
4906	457199.6	3768295	0.001407	7.21E-05	0.00E+00	1.41E-03	7.21E-05	0.00E+00	4.21E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
4907	457195.9	3768286	0.00145	7.43E-05	0.00E+00	1.45E-03	7.43E-05	0.00E+00	4.34E-04	1.34E-05	0.00E+00	1.65E-04	4.32E-06	0.00E+00
4908	457192.2	3768277	0.001494	7.66E-05	0.00E+00	1.49E-03	7.66E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
4909	457188.5	3768268	0.001539	7.89E-05	0.00E+00	1.54E-03	7.89E-05	0.00E+00	4.61E-04	1.42E-05	0.00E+00	1.75E-04	4.58E-06	0.00E+00
4910	457184.8	3768260	0.001585	8.13E-05	0.00E+00	1.59E-03	8.13E-05	0.00E+00	4.75E-04	1.46E-05	0.00E+00	1.80E-04	4.72E-06	0.00E+00
4911	457181.1	3768251	0.001632	8.37E-05	0.00E+00	1.63E-03	8.37E-05	0.00E+00	4.89E-04	1.50E-05	0.00E+00	1.85E-04	4.86E-06	0.00E+00
4912	457177.4	3768242	0.00168	8.61E-05	0.00E+00	1.68E-03	8.61E-05	0.00E+00	5.03E-04	1.55E-05	0.00E+00	1.91E-04	5.00E-06	0.00E+00
4913	457333.7	3768382	0.001451	7.44E-05	0.00E+00	1.45E-03	7.44E-05	0.00E+00	4.35E-04	1.34E-05	0.00E+00	1.65E-04	4.32E-06	0.00E+00
4914	457343.7	3768382	0.00151	7.74E-05	0.00E+00	1.51E-03	7.74E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
4915	457353.7	3768382	0.001574	8.07E-05	0.00E+00	1.57E-03	8.07E-05	0.00E+00	4.71E-04	1.45E-05	0.00E+00	1.79E-04	4.68E-06	0.00E+00
4916	457363.6	3768382	0.001644	8.43E-05	0.00E+00	1.64E-03	8.43E-05	0.00E+00	4.92E-04	1.52E-05	0.00E+00	1.87E-04	4.89E-06	0.00E+00
4917	457373.6	3768382	0.001721	8.82E-05	0.00E+00	1.72E-03	8.82E-05	0.00E+00	5.15E-04	1.59E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
4918	457383.6	3768382	0.001805	9.25E-05	0.00E+00	1.80E-03	9.25E-05	0.00E+00	5.41E-04	1.66E-05	0.00E+00	2.05E-04	5.37E-06	0.00E+00
4919	457393.5	3768382	0.001896	9.72E-05	0.00E+00	1.90E-03	9.72E-05	0.00E+00	5.68E-04	1.75E-05	0.00E+00	2.15E-04	5.64E-06	0.00E+00
4920	457403.5	3768382	0.001994	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
4921	457413.5	3768382	0.0021	1.08E-04	0.00E+00	2.10E-03	1.08E-04	0.00E+00	6.29E-04	1.94E-05	0.00E+00	2.38E-04	6.25E-06	0.00E+00
4922	457423.5	3768382	0.002213	1.13E-04	0.00E+00	2.21E-03	1.13E-04	0.00E+00	6.63E-04	2.04E-05	0.00E+00	2.51E-04	6.59E-06	0.00E+00
4923	457433.4	3768382	0.002334	1.20E-04	0.00E+00	2.33E-03	1.20E-04	0.00E+00	6.99E-04	2.15E-05	0.00E+00	2.65E-04	6.94E-06	0.00E+00
4924	457443.4	3768382	0.002461	1.26E-04	0.00E+00	2.46E-03	1.26E-04	0.00E+00	7.37E-04	2.27E-05	0.00E+00	2.79E-04	7.32E-06	0.00E+00
4925	457453.4	3768382	0.002592	1.33E-04	0.00E+00	2.59E-03	1.33E-04	0.00E+00	7.76E-04	2.39E-05	0.00E+00	2.94E-04	7.71E-06	0.00E+00
4926	457463.3	3768382	0.002727	1.40E-04	0.00E+00	2.73E-03	1.40E-04	0.00E+00	8.17E-04	2.51E-05	0.00E+00	3.09E-04	8.11E-06	0.00E+00
4927	457473.3	3768382	0.002865	1.47E-04	0.00E+00	2.86E-03	1.47E-04	0.00E+00	8.58E-04	2.64E-05	0.00E+00	3.25E-04	8.53E-06	0.00E+00
4928	457483.3	3768382	0.003007	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.01E-04	2.77E-05	0.00E+00	3.41E-04	8.95E-06	0.00E+00
4929	457493.2	3768382	0.003154	1.62E-04	0.00E+00	3.15E-03	1.62E-04	0.00E+00	9.45E-04	2.91E-05	0.00E+00	3.58E-04	9.39E-06	0.00E+00
4930	457503.2	3768382	0.003303	1.69E-04	0.00E+00	3.30E-03	1.69E-04	0.00E+00	9.89E-04	3.04E-05	0.00E+00	3.75E-04	9.83E-06	0.00E+00
4931	457513.2	3768382	0.003453	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
4932	457523.2	3768382	0.003601	1.85E-04	0.00E+00	3.60E-03	1.85E-04	0.00E+00	1.08E-03	3.32E-05	0.00E+00	4.09E-04	1.07E-05	0.00E+00
4933	457533.1	3768382	0.003749	1.92E-04	0.00E+00	3.75E-03	1.92E-04	0.00E+00	1.12E-03	3.46E-05	0.00E+00	4.25E-04	1.12E-05	0.00E+00
4934	457543.1	3768382	0.003895	2.00E-04	0.00E+00	3.89E-03	2.00E-04	0.00E+00	1.17E-03	3.59E-05	0.00E+00	4.42E-04	1.16E-05	0.00E+00
4935	457553.1	3768382	0.004036	2.07E-04	0.00E+00	4.04E-03	2.07E-04	0.00E+00	1.21E-03	3.72E-05	0.00E+00	4.58E-04	1.20E-05	0.00E+00
4936	457563	3768382	0.004175	2.14E-04	0.00E+00	4.18E-03	2.14E-04	0.00E+00	1.25E-03	3.85E-05	0.00E+00	4.74E-04	1.24E-05	0.00E+00
4937	457573	3768382	0.004312	2.21E-04	0.00E+00	4.31E-03	2.21E-04	0.00E+00	1.29E-03	3.98E-05	0.00E+00	4.89E-04	1.28E-05	0.00E+00
4938	457583	3768382	0.004449	2.28E-04	0.00E+00	4.45E-03	2.28E-04	0.00E+00	1.33E-03	4.10E-05	0.00E+00	5.05E-04	1.32E-05	0.00E+00
4939	457592.9	3768382	0.004583	2.35E-04	0.00E+00	4.58E-03	2.35E-04	0.00E+00	1.37E-03	4.22E-05	0.00E+00	5.20E-04	1.36E-05	0.00E+00
4940	457602.9	3768382	0.004712	2.42E-04	0.00E+00	4.71E-03	2.42E-04	0.00E+00	1.41E-03	4.34E-05	0.00E+00	5.35E-04	1.40E-05	0.00E+00
4941	457612.9	3768382	0.004836	2.48E-04	0.00E+00	4.84E-03	2.48E-04	0.00E+00	1.45E-03	4.46E-05	0.00E+00	5.49E-04	1.44E-05	0.00E+00
4942	457622.9	3768382	0.004956	2.54E-04	0.00E+00	4.96E-03	2.54E-04	0.00E+00	1.48E-03	4.57E-05	0.00E+00	5.62E-04	1.47E-05	0.00E+00
4943	457632.8	3768382	0.005071	2.60E-04	0.00E+00	5.07E-03	2.60E-04	0.00E+00	1.52E-03	4.67E-05	0.00E+00	5.75E-04	1.51E-05	0.00E+00
4944	457642.8	3768382	0.005179	2.66E-04	0.00E+00	5.18E-03	2.66E-04	0.00E+00	1.55E-03	4.77E-05	0.00E+00	5.88E-04	1.54E-05	0.00E+00
4945	457652.8	3768382	0.005282	2.71E-04	0.00E+00	5.28E-03	2.71E-04	0.00E+00	1.58E-03	4.87E-05	0.00E+00	5.99E-04	1.57E-05	0.00E+00
4946	457662.7	3768382	0.005377	2.76E-04	0.00E+00	5.38E-03	2.76E-04	0.00E+00	1.61E-03	4.96E-05	0.00E+00	6.10E-04	1.60E-05	0.00E+00
4947	457672.7	3768382	0.005463	2.80E-04	0.00E+00	5.46E-03	2.80E-04	0.00E+00	1.64E-03	5.04E-05	0.00E+00	6.20E-04	1.63E-05	0.00E+00
4948	457682.7	3768382	0.005542	2.84E-04	0.00E+00	5.54E-03	2.84E-04	0.00E+00	1.66E-03	5.11E-05	0.00E+00	6.29E-04	1.65E-05	0.00E+00
4949	457692.7	3768382	0.005616	2.88E-04	0.00E+00	5.62E-03	2.88E-04	0.00E+00	1.68E-03	5.18E-05	0.00E+00	6.37E-04	1.67E-05	0.00E+00
4950	457702.6	3768382	0.005685	2.91E-04	0.00E+00	5.68E-03	2.91E-04	0.00E+00	1.70E-03	5.24E-05	0.00E+00	6.45E-04	1.69E-05	0.00E+00
4951	457185.7	3768321	0.001167	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.49E-04	1.08E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
4952	457182	3768313	0.001199	6.15E-05	0.00E+00	1.20E-03	6.15E-05	0.00E+00	3.59E-04	1.11E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
4953	457178.3	3768304	0.001232	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
4954	457174.6	3768295	0.001266	6.49E-05	0.00E+00	1.27E-03	6.49E-05	0.00E+00	3.79E-04	1.17E-05	0.00E+00	1.44E-04	3.77E-06	0.00E+00
4955	457170.9	3768286	0.001301	6.67E-05	0.00E+00	1.30E-03	6.67E-05	0.00E+00	3.90E-04	1.20E-05	0.00E+00	1.48E-04	3.87E-06	0.00E+00
4956	457167.2	3768277	0.001336	6.85E-05	0.00E+00	1.34E-03	6.85E-05	0.00E+00	4.00E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
4957	457163.5	3768269	0.001372	7.04E-05	0.00E+00	1.37E-03	7.04E-05	0.00E+00	4.11E-04	1.27E-05	0.00E+00	1.56E-04	4.08E-06	0.00E+00
4958	457159.8	3768260	0.001409	7.22E-05	0.00E+00	1.41E-03	7.22E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
4959	457156.1	3768251	0.001447	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.33E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
4960	457152.4	3768242	0.001485	7.61E-05	0.00E+00	1.48E-03	7.61E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.68E-04	4.42E-06	0.00E+00
4961	457333.7	3768407	0.001252	6.42E-05	0.00E+00	1.25E-03	6.42E-05	0.00E+00	3.75E-04	1.15E-05	0.00E+00	1.42E-04	3.73E-06	0.00E+00
4962	457343.7	3768407	0.001297	6.65E-05	0.00E+00	1.30E-03	6.65E-05	0.00E+00	3.88E-04	1.20E-05	0.00E+00	1.47E-04	3.86E-06	0.00E+00
4963	457353.7	3768407	0.001345	6.89E-05	0.00E+00	1.34E-03	6.89E-05	0.00E+00	4.03E-04	1.24E-05	0.00E+00	1.53E-04	4.00E-06	0.00E+00
4964	457363.6	3768407	0.001397	7.16E-05	0.00E+00	1.40E-03	7.16E-05	0.00E+00	4.18E-04	1.29E-05	0.00E+00	1.58E-04	4.16E-06	0.00E+00
4965	457373.6	3768407	0.001453	7.45E-05	0.00E+00	1.45E-03	7.45E-05	0.00E+00	4.35E-04	1.34E-05	0.00E+00	1.65E-04	4.33E-06	0.00E+00
4966	457383.6	3768407	0.001515	7.77E-05	0.00E+00	1.51E-03	7.77E-05	0.00E+00	4.54E-04	1.40E-05	0.00E+00	1.72E-04	4.51E-06	0.00E+00
4967	457393.6	3768407	0.00158	8.10E-05	0.00E+00	1.58E-03	8.10E-05	0.00E+00	4.73E-04	1.46E-05	0.00E+00	1.79E-04	4.70E-06	0.00E+00
4968	457403.5	3768407	0.00165	8.46E-05	0.00E+00	1.65E-03	8.46E-05	0.00E+00	4.94E-04	1.52E-05	0.00E+00	1.87E-04	4.91E-06	0.00E+00
4969	457413.5	3768407	0.001725	8.84E-05	0.00E+00	1.72E-03	8.84E-05	0.00E+00	5.17E-04	1.59E-05	0.00E+00	1.96E-04	5.13E-06	0.00E+00
4970	457423.5	3768407	0.001806	9.26E-05	0.00E+00	1.81E-03	9.26E-05	0.00E+00	5.41E-04	1.66E-05	0.00E+00	2.05E-04	5.37E-06	0.00E+00
4971	457433.4	3768407	0.001893	9.71E-05	0.00E+00	1.89E-03	9.71E-05	0.00E+00	5.67E-04	1.75E-05	0.00E+00	2.15E-04	5.63E-06	0.00E+00
4972	457443.4	3768407	0.001986	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.95E-04	1.83E-05	0.00E+00	2.25E-04	5.91E-06	0.00E+00
4973	457453.4	3768407	0.002084	1.07E-04	0.00E+00	2.08E-03	1.07E-04	0.00E+00	6.24E-04	1.92E-05	0.00E+00	2.36E-04	6.20E-06	0.00E+00
4974	457463.3	3768407	0.002186	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.55E-04	2.02E-05	0.00E+00	2.48E-04	6.51E-06	0.00E+00
4975	457473.3	3768407	0.002293	1.18E-04	0.00E+00	2.29E-03	1.18E-04	0.00E+00	6.87E-04	2.11E-05	0.00E+00	2.60E-04	6.82E-06	0.00E+00
4976	457483.3	3768407	0.002403	1.23E-04	0.00E+00	2.40E-03	1.23E-04	0.00E+00	7.20E-04	2.21E-05	0.00E+00	2.73E-04	7.15E-06	0.00E+00
4977	457493.3	3768407	0.002516	1.29E-04	0.00E+00	2.52E-03	1.29E-04	0.00E+00	7.53E-04	2.32E-05	0.00E+00	2.85E-04	7.49E-06	0.00E+00
4978	457503.2	3768407	0.002631	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.88E-04	2.43E-05	0.00E+00	2.98E-04	7.83E-06	0.00E+00
4979	457513.2	3768407	0.002747	1.41E-04	0.00E+00	2.75E-03	1.41E-04	0.00E+00	8.23E-04	2.53E-05	0.00E+00	3.12E-04	8.18E-06	0.00E+00
4980	457523.2	3768407	0.002862	1.47E-04	0.00E+00	2.86E-03	1.47E-04	0.00E+00	8.57E-04	2.64E-05	0.00E+00	3.25E-04	8.52E-06	0.00E+00
4981	457533.1	3768407	0.002978	1.53E-04	0.00E+00	2.98E-03	1.53E-04	0.00E+00	8.92E-04	2.74E-05	0.00E+00	3.38E-04	8.86E-06	0.00E+00
4982	457543.1	3768407	0.003095	1.59E-04	0.00E+00	3.10E-03	1.59E-04	0.00E+00	9.27E-04	2.85E-05	0.00E+00	3.51E-04	9.21E-06	0.00E+00
4983	457553.1	3768407	0.003215	1.65E-04	0.00E+00	3.21E-03	1.65E-04	0.00E+00	9.63E-04	2.96E-05	0.00E+00	3.65E-04	9.57E-06	0.00E+00
4984	457563	3768407	0.003334	1.71E-04	0.00E+00	3.33E-03	1.71E-04	0.00E+00	9.98E-04	3.07E-05	0.00E+00	3.78E-04	9.92E-06	0.00E+00
4985	457573	3768407	0.003452	1.77E-04	0.00E+00	3.45E-03	1.77E-04	0.00E+00	1.03E-03	3.18E-05	0.00E+00	3.92E-04	1.03E-05	0.00E+00
4986	457583	3768407	0.003568	1.83E-04	0.00E+00	3.57E-03	1.83E-04	0.00E+00	1.07E-03	3.29E-05	0.00E+00	4.05E-04	1.06E-05	0.00E+00
4987	457593	3768407	0.003682	1.89E-04	0.00E+00	3.68E-03	1.89E-04	0.00E+00	1.10E-03	3.39E-05	0.00E+00	4.18E-04	1.10E-05	0.00E+00
4988	457602.9	3768407	0.003794	1.95E-04	0.00E+00	3.79E-03	1.95E-04	0.00E+00	1.14E-03	3.50E-05	0.00E+00	4.30E-04	1.13E-05	0.00E+00
4989	457612.9	3768407	0.003904	2.00E-04	0.00E+00	3.90E-03	2.00E-04	0.00E+00	1.17E-03	3.60E-05	0.00E+00	4.43E-04	1.16E-05	0.00E+00

4990	457622.9	3768407	0.00401	2.06E-04	0.00E+00	4.01E-03	2.06E-04	0.00E+00	1.20E-03	3.70E-05	0.00E+00	4.55E-04	1.19E-05	0.00E+00
4991	457632.8	3768407	0.004113	2.11E-04	0.00E+00	4.11E-03	2.11E-04	0.00E+00	1.23E-03	3.79E-05	0.00E+00	4.67E-04	1.22E-05	0.00E+00
4992	457642.8	3768407	0.004208	2.16E-04	0.00E+00	4.21E-03	2.16E-04	0.00E+00	1.26E-03	3.88E-05	0.00E+00	4.77E-04	1.25E-05	0.00E+00
4993	457652.8	3768407	0.004299	2.20E-04	0.00E+00	4.30E-03	2.20E-04	0.00E+00	1.29E-03	3.96E-05	0.00E+00	4.88E-04	1.28E-05	0.00E+00
4994	457662.8	3768407	0.004388	2.25E-04	0.00E+00	4.39E-03	2.25E-04	0.00E+00	1.31E-03	4.04E-05	0.00E+00	4.98E-04	1.31E-05	0.00E+00
4995	457672.7	3768407	0.004475	2.29E-04	0.00E+00	4.48E-03	2.29E-04	0.00E+00	1.34E-03	4.13E-05	0.00E+00	5.08E-04	1.33E-05	0.00E+00
4996	457682.7	3768407	0.004558	2.34E-04	0.00E+00	4.56E-03	2.34E-04	0.00E+00	1.37E-03	4.20E-05	0.00E+00	5.17E-04	1.36E-05	0.00E+00
4997	457692.7	3768407	0.004636	2.38E-04	0.00E+00	4.64E-03	2.38E-04	0.00E+00	1.39E-03	4.27E-05	0.00E+00	5.26E-04	1.38E-05	0.00E+00
4998	457702.6	3768407	0.004589	2.35E-04	0.00E+00	4.59E-03	2.35E-04	0.00E+00	1.37E-03	4.23E-05	0.00E+00	5.21E-04	1.37E-05	0.00E+00
4999	457175.4	3768357	0.000962	4.93E-05	0.00E+00	9.62E-04	4.93E-05	0.00E+00	2.88E-04	8.87E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
5000	457171.7	3768348	0.000987	5.06E-05	0.00E+00	9.87E-04	5.06E-05	0.00E+00	2.96E-04	9.10E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
5001	457168.1	3768339	0.001012	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.33E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
5002	457164.4	3768330	0.001038	5.32E-05	0.00E+00	1.04E-03	5.32E-05	0.00E+00	3.11E-04	9.57E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
5003	457160.7	3768321	0.001064	5.46E-05	0.00E+00	1.06E-03	5.46E-05	0.00E+00	3.19E-04	9.81E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
5004	457157	3768313	0.001091	5.59E-05	0.00E+00	1.09E-03	5.59E-05	0.00E+00	3.27E-04	1.01E-05	0.00E+00	1.24E-04	3.25E-06	0.00E+00
5005	457153.3	3768304	0.001118	5.73E-05	0.00E+00	1.12E-03	5.73E-05	0.00E+00	3.35E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
5006	457149.6	3768295	0.001146	5.87E-05	0.00E+00	1.15E-03	5.87E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
5007	457145.9	3768286	0.001174	6.02E-05	0.00E+00	1.17E-03	6.02E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
5008	457142.2	3768278	0.001203	6.17E-05	0.00E+00	1.20E-03	6.17E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.37E-04	3.58E-06	0.00E+00
5009	457138.5	3768269	0.001233	6.32E-05	0.00E+00	1.23E-03	6.32E-05	0.00E+00	3.69E-04	1.14E-05	0.00E+00	1.40E-04	3.67E-06	0.00E+00
5010	457134.8	3768260	0.001263	6.48E-05	0.00E+00	1.26E-03	6.48E-05	0.00E+00	3.78E-04	1.16E-05	0.00E+00	1.43E-04	3.76E-06	0.00E+00
5011	457131.1	3768251	0.001294	6.63E-05	0.00E+00	1.29E-03	6.63E-05	0.00E+00	3.88E-04	1.19E-05	0.00E+00	1.47E-04	3.85E-06	0.00E+00
5012	457127.4	3768242	0.001325	6.79E-05	0.00E+00	1.32E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
5013	457174	3768396	0.00082	4.20E-05	0.00E+00	8.20E-04	4.20E-05	0.00E+00	2.46E-04	7.56E-06	0.00E+00	9.30E-05	2.44E-06	0.00E+00
5014	457161.5	3768383	0.00083	4.25E-05	0.00E+00	8.30E-04	4.25E-05	0.00E+00	2.49E-04	7.65E-06	0.00E+00	9.41E-05	2.47E-06	0.00E+00
5015	457157.8	3768374	0.000849	4.35E-05	0.00E+00	8.49E-04	4.35E-05	0.00E+00	2.54E-04	7.83E-06	0.00E+00	9.63E-05	2.53E-06	0.00E+00
5016	457154.1	3768366	0.000869	4.45E-05	0.00E+00	8.69E-04	4.45E-05	0.00E+00	2.60E-04	8.01E-06	0.00E+00	9.85E-05	2.58E-06	0.00E+00
5017	457150.4	3768357	0.000889	4.56E-05	0.00E+00	8.89E-04	4.56E-05	0.00E+00	2.66E-04	8.19E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
5018	457146.7	3768348	0.000909	4.66E-05	0.00E+00	9.09E-04	4.66E-05	0.00E+00	2.72E-04	8.38E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
5019	457143.1	3768339	0.000931	4.77E-05	0.00E+00	9.31E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
5020	457139.4	3768330	0.000953	4.88E-05	0.00E+00	9.53E-04	4.88E-05	0.00E+00	2.85E-04	8.78E-06	0.00E+00	1.08E-04	2.83E-06	0.00E+00
5021	457135.7	3768322	0.000975	5.00E-05	0.00E+00	9.75E-04	5.00E-05	0.00E+00	2.92E-04	8.98E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
5022	457132	3768313	0.000997	5.11E-05	0.00E+00	9.97E-04	5.11E-05	0.00E+00	2.99E-04	9.19E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
5023	457128.3	3768304	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.06E-04	9.40E-06	0.00E+00	1.16E-04	3.04E-06	0.00E+00
5024	457124.6	3768295	0.001043	5.35E-05	0.00E+00	1.04E-03	5.35E-05	0.00E+00	3.12E-04	9.62E-06	0.00E+00	1.18E-04	3.10E-06	0.00E+00
5025	457120.9	3768287	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.20E-04	9.83E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
5026	457117.2	3768278	0.001091	5.59E-05	0.00E+00	1.09E-03	5.59E-05	0.00E+00	3.27E-04	1.01E-05	0.00E+00	1.24E-04	3.25E-06	0.00E+00
5027	457113.5	3768269	0.001116	5.72E-05	0.00E+00	1.12E-03	5.72E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.27E-04	3.32E-06	0.00E+00
5028	457109.8	3768260	0.001141	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.29E-04	3.39E-06	0.00E+00
5029	457106.1	3768251	0.001166	5.98E-05	0.00E+00	1.17E-03	5.98E-05	0.00E+00	3.49E-04	1.07E-05	0.00E+00	1.32E-04	3.47E-06	0.00E+00
5030	457102.4	3768243	0.001191	6.11E-05	0.00E+00	1.19E-03	6.11E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
5031	457333.8	3768457	0.000965	4.95E-05	0.00E+00	9.65E-04	4.95E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
5032	457343.7	3768457	0.000992	5.09E-05	0.00E+00	9.92E-04	5.09E-05	0.00E+00	2.97E-04	9.15E-06	0.00E+00	1.13E-04	2.95E-06	0.00E+00
5033	457353.7	3768457	0.001021	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.06E-04	9.41E-06	0.00E+00	1.16E-04	3.04E-06	0.00E+00
5034	457363.7	3768457	0.001052	5.39E-05	0.00E+00	1.05E-03	5.39E-05	0.00E+00	3.15E-04	9.70E-06	0.00E+00	1.19E-04	3.13E-06	0.00E+00
5035	457373.6	3768457	0.001085	5.56E-05	0.00E+00	1.08E-03	5.56E-05	0.00E+00	3.25E-04	1.00E-05	0.00E+00	1.23E-04	3.23E-06	0.00E+00
5036	457383.6	3768457	0.00112	5.74E-05	0.00E+00	1.12E-03	5.74E-05	0.00E+00	3.35E-04	1.03E-05	0.00E+00	1.27E-04	3.33E-06	0.00E+00
5037	457393.6	3768457	0.001158	5.94E-05	0.00E+00	1.16E-03	5.94E-05	0.00E+00	3.47E-04	1.07E-05	0.00E+00	1.31E-04	3.45E-06	0.00E+00
5038	457403.5	3768457	0.001199	6.15E-05	0.00E+00	1.20E-03	6.15E-05	0.00E+00	3.59E-04	1.10E-05	0.00E+00	1.36E-04	3.57E-06	0.00E+00
5039	457413.5	3768457	0.001242	6.37E-05	0.00E+00	1.24E-03	6.37E-05	0.00E+00	3.72E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
5040	457423.5	3768457	0.001289	6.61E-05	0.00E+00	1.29E-03	6.61E-05	0.00E+00	3.86E-04	1.19E-05	0.00E+00	1.46E-04	3.84E-06	0.00E+00
5041	457433.5	3768457	0.001339	6.86E-05	0.00E+00	1.34E-03	6.86E-05	0.00E+00	4.01E-04	1.23E-05	0.00E+00	1.52E-04	3.98E-06	0.00E+00
5042	457443.4	3768457	0.001392	7.14E-05	0.00E+00	1.39E-03	7.14E-05	0.00E+00	4.17E-04	1.28E-05	0.00E+00	1.58E-04	4.14E-06	0.00E+00
5043	457453.4	3768457	0.001448	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.34E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
5044	457463.4	3768457	0.001506	7.72E-05	0.00E+00	1.51E-03	7.72E-05	0.00E+00	4.51E-04	1.39E-05	0.00E+00	1.71E-04	4.48E-06	0.00E+00
5045	457473.3	3768457	0.001567	8.03E-05	0.00E+00	1.57E-03	8.03E-05	0.00E+00	4.69E-04	1.44E-05	0.00E+00	1.78E-04	4.66E-06	0.00E+00
5046	457483.3	3768457	0.001631	8.36E-05	0.00E+00	1.63E-03	8.36E-05	0.00E+00	4.89E-04	1.50E-05	0.00E+00	1.85E-04	4.85E-06	0.00E+00
5047	457493.3	3768457	0.001699	8.71E-05	0.00E+00	1.70E-03	8.71E-05	0.00E+00	5.09E-04	1.57E-05	0.00E+00	1.93E-04	5.06E-06	0.00E+00
5048	457503.3	3768457	0.001769	9.07E-05	0.00E+00	1.77E-03	9.07E-05	0.00E+00	5.30E-04	1.63E-05	0.00E+00	2.01E-04	5.26E-06	0.00E+00
5049	457513.2	3768457	0.001841	9.44E-05	0.00E+00	1.84E-03	9.44E-05	0.00E+00	5.51E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
5050	457523.2	3768457	0.001916	9.82E-05	0.00E+00	1.92E-03	9.82E-05	0.00E+00	5.74E-04	1.77E-05	0.00E+00	2.17E-04	5.70E-06	0.00E+00
5051	457533.2	3768457	0.001992	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
5052	457543.1	3768457	0.00207	1.06E-04	0.00E+00	2.07E-03	1.06E-04	0.00E+00	6.20E-04	1.91E-05	0.00E+00	2.35E-04	6.16E-06	0.00E+00
5053	457553.1	3768457	0.002148	1.10E-04	0.00E+00	2.15E-03	1.10E-04	0.00E+00	6.43E-04	1.98E-05	0.00E+00	2.44E-04	6.39E-06	0.00E+00
5054	457563.1	3768457	0.002227	1.14E-04	0.00E+00	2.23E-03	1.14E-04	0.00E+00	6.67E-04	2.05E-05	0.00E+00	2.53E-04	6.63E-06	0.00E+00
5055	457573	3768457	0.002306	1.18E-04	0.00E+00	2.31E-03	1.18E-04	0.00E+00	6.91E-04	2.13E-05	0.00E+00	2.62E-04	6.86E-06	0.00E+00
5056	457583	3768457	0.002387	1.22E-04	0.00E+00	2.39E-03	1.22E-04	0.00E+00	7.15E-04	2.20E-05	0.00E+00	2.71E-04	7.10E-06	0.00E+00
5057	457593	3768457	0.002468	1.27E-04	0.00E+00	2.47E-03	1.27E-04	0.00E+00	7.39E-04	2.28E-05	0.00E+00	2.80E-04	7.34E-06	0.00E+00
5058	457603	3768457	0.002549	1.31E-04	0.00E+00	2.55E-03	1.31E-04	0.00E+00	7.63E-04	2.35E-05	0.00E+00	2.89E-04	7.59E-06	0.00E+00
5059	457612.9	3768457	0.00263	1.35E-04	0.00E+00	2.63E-03	1.35E-04	0.00E+00	7.88E-04	2.42E-05	0.00E+00	2.98E-04	7.83E-06	0.00E+00
5060	457622.9	3768457	0.002711	1.39E-04	0.00E+00	2.71E-03	1.39E-04	0.00E+00	8.12E-04	2.50E-05	0.00E+00	3.08E-04	8.07E-06	0.00E+00
5061	457632.9	3768457	0.002791	1.43E-04	0.00E+00	2.79E-03	1.43E-04	0.00E+00	8.36E-04	2.57E-05	0.00E+00	3.17E-04	8.30E-06	0.00E+00
5062	457642.8	3768457	0.002869	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.59E-04	2.64E-05	0.00E+00	3.26E-04	8.54E-06	0.00E+00
5063	457652.8	3768457	0.002946	1.51E-04	0.00E+00	2.95E-03	1.51E-04	0.00E+00	8.82E-04	2.72E-05	0.00E+00	3.34E-04	8.77E-06	0.00E+00
5064	457662.8	3768457	0.002872	1.47E-04	0.00E+00	2.87E-03	1.47E-04	0.00E+00	8.60E-04	2.65E-05	0.00E+00	3.26E-04	8.55E-06	0.00E+00
5065	457672.7	3768457	0.002941	1.51E-04	0.00E+00	2.94E-03	1.51E-04	0.00E+00	8.81E-04	2.71E-05	0.00E+00	3.34E-04	8.75E-06	0.00E+00
5066	457682.7	3768457	0.003008	1.54E-04	0.00E+00	3.01E-03	1.54E-04	0.00E+00	9.01E-04	2.77E-05	0.00E+00	3.41E-04	8.95E-06	0.00E+00
5067	457692.7	3768457	0.003076	1.58E-04	0.00E+00	3.08E-03	1.58E-04	0.00E+00	9.21E-04	2.84E-05	0.00E+00	3.49E-04	9.15E-06	0.00E+00
5068	457702.7	3768457	0.003144	1.61E-04	0.00E+00	3.14E-03	1.61E-04	0.00E+00	9.42E-04	2.90E-05	0.00E+00	3.57E-04	9.36E-06	0.00E+00
5069	457288.6	3768468	0.000821	4.21E-05	0.00E+00	8.21E-04	4.21E-05	0.00E+00	2.46E-04	7.57E-06	0.00E+00	9.32E-05	2.44E-06	0.00E+00
5070	457279.8	3768464	0.000816	4.19E-05	0.00E+00	8.16E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.26E-05	2.43E-06	0.00E+00
5071	457270.9	3768460	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.21E-05	2.41E-06	0.00E+00
5072	457262.1	3768457	0.000806	4.13E-05	0.00E+00	8.06E-04	4.13E-05	0.00E+00	2.42E-04	7.43E-06	0.00E+00	9.15E-05	2.40E-06	0.00E+00
5073	457253.3	3768453	0.000801	4.11E-05	0.00E+00	8.01E-04	4.11E-05	0.00E+00	2.40E-04	7.39E-06	0.00E+00	9.09E-05	2.38E-06	0.00E+00
5074	457244.5	3768450	0.000796	4.08E-05	0.00E+00	7.96E-04	4.08E-05	0.00E+00	2.38E-04	7.34E-06	0.00E+00	9.03E-05	2.37E-06	0.00E+00
5075	457156.4	3768413	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
5076	457143.9	3768401	0.00074	3.79E-05	0.00E+00	7.40E-04	3.79E-05	0.00E+00	2.22E-04	6.82E-06	0.00E+00	8.40E-05	2.20E-06	0.00E+00
5077	457140.2	3768392	0.000756	3.88E-05	0.00E+00	7.56E-04	3.88E-05	0.00E+00	2.26E-04	6.97E-06	0.00E+00	8.58E-05	2.25E-06	0.00E+00
5078	457136.5	3768383	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.12E-06	0.00E+00	8.76E-05	2.30E-06	0.00E+00
5079	457132.8	3768375	0.000789	4.04E-05	0.00E+00	7.89E-04	4.04E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.95E-05	2.35E-06	0.00E+00
5080	457129.1	3768366	0.000806	4.13E-05	0.00E+00	8.06E-04	4.13E-05	0.00E+00	2.41E-04	7.43E-06	0.00E+00	9.14E-05	2.40E-06	0.00E+00
5081	457125.4	3768357	0.000823	4.22E-05	0.00E+00	8.23E-04	4.22E-05	0.00E+00	2.47E-04	7.59E-06	0.00E+00	9.34E-05	2.45E-06	0.00E+00
5082	457121.8	3768348	0.000841	4.31E-05	0.00E+00	8.41E-04	4.31E-05	0.00E+00	2.52E-04	7.75E-06	0.00E+00	9.54E-05	2.50E-06	0.00E+00
5083	457118.1	3768339	0.000859	4.40E-05	0.00E+00	8.59E-04	4.40E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.75E-05	2.56E-06	0.00E+00
5084	457114.4	3768331	0.000878	4.50E-05	0.00E+00	8.78E-04	4.50E-05	0.00E+00	2.63E-04	8.09E-06	0.00E+00	9.96E-05	2.61E-06	0.00E+00
5085	457110.7	3768322	0.000896	4.60E-05	0.00E+00	8.96E-04	4.60E-05	0.00E+00	2.68E-04	8.26E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00

5086	457107	3768313	0.000915	4.69E-05	0.00E+00	9.15E-04	4.69E-05	0.00E+00	2.74E-04	8.44E-06	0.00E+00	1.04E-04	2.72E-06	0.00E+00
5087	457103.3	3768304	0.000935	4.79E-05	0.00E+00	9.35E-04	4.79E-05	0.00E+00	2.80E-04	8.62E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
5088	457099.6	3768296	0.000954	4.89E-05	0.00E+00	9.54E-04	4.89E-05	0.00E+00	2.86E-04	8.80E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
5089	457095.9	3768287	0.000974	5.00E-05	0.00E+00	9.74E-04	5.00E-05	0.00E+00	2.92E-04	8.98E-06	0.00E+00	1.11E-04	2.90E-06	0.00E+00
5090	457092.2	3768278	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
5091	457088.5	3768269	0.001016	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.04E-04	9.36E-06	0.00E+00	1.15E-04	3.02E-06	0.00E+00
5092	457084.8	3768260	0.001037	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.56E-06	0.00E+00	1.18E-04	3.08E-06	0.00E+00
5093	457081.1	3768252	0.001058	5.42E-05	0.00E+00	1.06E-03	5.42E-05	0.00E+00	3.17E-04	9.75E-06	0.00E+00	1.20E-04	3.15E-06	0.00E+00
5094	457077.4	3768243	0.001079	5.53E-05	0.00E+00	1.08E-03	5.53E-05	0.00E+00	3.23E-04	9.94E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
5095	457333.8	3768482	0.000859	4.40E-05	0.00E+00	8.59E-04	4.40E-05	0.00E+00	2.57E-04	7.92E-06	0.00E+00	9.74E-05	2.56E-06	0.00E+00
5096	457343.7	3768482	0.000881	4.52E-05	0.00E+00	8.81E-04	4.52E-05	0.00E+00	2.64E-04	8.12E-06	0.00E+00	9.99E-05	2.62E-06	0.00E+00
5097	457353.7	3768482	0.000904	4.63E-05	0.00E+00	9.04E-04	4.63E-05	0.00E+00	2.71E-04	8.33E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
5098	457363.7	3768482	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.56E-06	0.00E+00	1.05E-04	2.76E-06	0.00E+00
5099	457373.6	3768482	0.000955	4.90E-05	0.00E+00	9.55E-04	4.90E-05	0.00E+00	2.86E-04	8.80E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
5100	457383.6	3768482	0.000983	5.04E-05	0.00E+00	9.83E-04	5.04E-05	0.00E+00	2.94E-04	9.06E-06	0.00E+00	1.12E-04	2.92E-06	0.00E+00
5101	457393.6	3768482	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.33E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
5102	457403.6	3768482	0.001044	5.35E-05	0.00E+00	1.04E-03	5.35E-05	0.00E+00	3.13E-04	9.62E-06	0.00E+00	1.18E-04	3.11E-06	0.00E+00
5103	457413.5	3768482	0.001077	5.52E-05	0.00E+00	1.08E-03	5.52E-05	0.00E+00	3.23E-04	9.93E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
5104	457423.5	3768482	0.001113	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.33E-04	1.03E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
5105	457433.5	3768482	0.001152	5.91E-05	0.00E+00	1.15E-03	5.91E-05	0.00E+00	3.45E-04	1.06E-05	0.00E+00	1.31E-04	3.43E-06	0.00E+00
5106	457443.4	3768482	0.001193	6.12E-05	0.00E+00	1.19E-03	6.12E-05	0.00E+00	3.57E-04	1.10E-05	0.00E+00	1.35E-04	3.55E-06	0.00E+00
5107	457453.4	3768482	0.001237	6.34E-05	0.00E+00	1.24E-03	6.34E-05	0.00E+00	3.70E-04	1.14E-05	0.00E+00	1.40E-04	3.68E-06	0.00E+00
5108	457463.4	3768482	0.001282	6.57E-05	0.00E+00	1.28E-03	6.57E-05	0.00E+00	3.84E-04	1.18E-05	0.00E+00	1.45E-04	3.82E-06	0.00E+00
5109	457473.4	3768482	0.00133	6.82E-05	0.00E+00	1.33E-03	6.82E-05	0.00E+00	3.98E-04	1.23E-05	0.00E+00	1.51E-04	3.96E-06	0.00E+00
5110	457483.3	3768482	0.001381	7.08E-05	0.00E+00	1.38E-03	7.08E-05	0.00E+00	4.14E-04	1.27E-05	0.00E+00	1.57E-04	4.11E-06	0.00E+00
5111	457493.3	3768482	0.001434	7.35E-05	0.00E+00	1.43E-03	7.35E-05	0.00E+00	4.30E-04	1.32E-05	0.00E+00	1.63E-04	4.27E-06	0.00E+00
5112	457503.3	3768482	0.00149	7.64E-05	0.00E+00	1.49E-03	7.64E-05	0.00E+00	4.46E-04	1.37E-05	0.00E+00	1.69E-04	4.43E-06	0.00E+00
5113	457513.2	3768482	0.001548	7.93E-05	0.00E+00	1.55E-03	7.93E-05	0.00E+00	4.63E-04	1.43E-05	0.00E+00	1.76E-04	4.60E-06	0.00E+00
5114	457523.2	3768482	0.001606	8.24E-05	0.00E+00	1.61E-03	8.24E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
5115	457533.2	3768482	0.001667	8.55E-05	0.00E+00	1.67E-03	8.55E-05	0.00E+00	4.99E-04	1.54E-05	0.00E+00	1.89E-04	4.96E-06	0.00E+00
5116	457543.1	3768482	0.00173	8.87E-05	0.00E+00	1.73E-03	8.87E-05	0.00E+00	5.18E-04	1.59E-05	0.00E+00	1.96E-04	5.15E-06	0.00E+00
5117	457553.1	3768482	0.001793	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.34E-06	0.00E+00
5118	457563.1	3768482	0.001859	9.53E-05	0.00E+00	1.86E-03	9.53E-05	0.00E+00	5.57E-04	1.71E-05	0.00E+00	2.11E-04	5.53E-06	0.00E+00
5119	457573.1	3768482	0.001925	9.87E-05	0.00E+00	1.92E-03	9.87E-05	0.00E+00	5.77E-04	1.77E-05	0.00E+00	2.18E-04	5.73E-06	0.00E+00
5120	457583	3768482	0.001993	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
5121	457593	3768482	0.002061	1.06E-04	0.00E+00	2.06E-03	1.06E-04	0.00E+00	6.17E-04	1.90E-05	0.00E+00	2.34E-04	6.13E-06	0.00E+00
5122	457603	3768482	0.00213	1.09E-04	0.00E+00	2.13E-03	1.09E-04	0.00E+00	6.38E-04	1.96E-05	0.00E+00	2.42E-04	6.34E-06	0.00E+00
5123	457612.9	3768482	0.0022	1.13E-04	0.00E+00	2.20E-03	1.13E-04	0.00E+00	6.59E-04	2.03E-05	0.00E+00	2.50E-04	6.55E-06	0.00E+00
5124	457622.9	3768482	0.002269	1.16E-04	0.00E+00	2.27E-03	1.16E-04	0.00E+00	6.79E-04	2.09E-05	0.00E+00	2.57E-04	6.75E-06	0.00E+00
5125	457632.9	3768482	0.002192	1.12E-04	0.00E+00	2.19E-03	1.12E-04	0.00E+00	6.57E-04	2.02E-05	0.00E+00	2.49E-04	6.52E-06	0.00E+00
5126	457642.8	3768482	0.002256	1.16E-04	0.00E+00	2.26E-03	1.16E-04	0.00E+00	6.76E-04	2.08E-05	0.00E+00	2.56E-04	6.71E-06	0.00E+00
5127	457652.8	3768482	0.002319	1.19E-04	0.00E+00	2.32E-03	1.19E-04	0.00E+00	6.94E-04	2.14E-05	0.00E+00	2.63E-04	6.90E-06	0.00E+00
5128	457662.8	3768482	0.002382	1.22E-04	0.00E+00	2.38E-03	1.22E-04	0.00E+00	7.13E-04	2.20E-05	0.00E+00	2.70E-04	7.09E-06	0.00E+00
5129	457672.8	3768482	0.002445	1.25E-04	0.00E+00	2.44E-03	1.25E-04	0.00E+00	7.32E-04	2.25E-05	0.00E+00	2.77E-04	7.27E-06	0.00E+00
5130	457682.7	3768482	0.002507	1.29E-04	0.00E+00	2.51E-03	1.29E-04	0.00E+00	7.51E-04	2.31E-05	0.00E+00	2.84E-04	7.46E-06	0.00E+00
5131	457692.7	3768482	0.00257	1.32E-04	0.00E+00	2.57E-03	1.32E-04	0.00E+00	7.70E-04	2.37E-05	0.00E+00	2.92E-04	7.65E-06	0.00E+00
5132	457702.7	3768482	0.002635	1.35E-04	0.00E+00	2.64E-03	1.35E-04	0.00E+00	7.89E-04	2.43E-05	0.00E+00	2.99E-04	7.84E-06	0.00E+00
5133	457288.6	3768493	0.00074	3.79E-05	0.00E+00	7.40E-04	3.79E-05	0.00E+00	2.22E-04	6.82E-06	0.00E+00	8.39E-05	2.20E-06	0.00E+00
5134	457279.8	3768489	0.000736	3.78E-05	0.00E+00	7.36E-04	3.78E-05	0.00E+00	2.21E-04	6.79E-06	0.00E+00	8.35E-05	2.19E-06	0.00E+00
5135	457271	3768485	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.19E-04	6.76E-06	0.00E+00	8.31E-05	2.18E-06	0.00E+00
5136	457262.1	3768482	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
5137	457253.3	3768478	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.17E-04	6.69E-06	0.00E+00	8.23E-05	2.16E-06	0.00E+00
5138	457244.5	3768475	0.000722	3.70E-05	0.00E+00	7.22E-04	3.70E-05	0.00E+00	2.16E-04	6.65E-06	0.00E+00	8.19E-05	2.15E-06	0.00E+00
5139	457235.7	3768471	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
5140	457226.9	3768467	0.000713	3.65E-05	0.00E+00	7.13E-04	3.65E-05	0.00E+00	2.13E-04	6.57E-06	0.00E+00	8.09E-05	2.12E-06	0.00E+00
5141	457218.1	3768464	0.000708	3.63E-05	0.00E+00	7.08E-04	3.63E-05	0.00E+00	2.12E-04	6.53E-06	0.00E+00	8.03E-05	2.11E-06	0.00E+00
5142	457209.3	3768460	0.000703	3.61E-05	0.00E+00	7.03E-04	3.61E-05	0.00E+00	2.11E-04	6.48E-06	0.00E+00	7.98E-05	2.09E-06	0.00E+00
5143	457200.5	3768456	0.000698	3.58E-05	0.00E+00	6.98E-04	3.58E-05	0.00E+00	2.09E-04	6.44E-06	0.00E+00	7.92E-05	2.08E-06	0.00E+00
5144	457191.7	3768453	0.000693	3.55E-05	0.00E+00	6.93E-04	3.55E-05	0.00E+00	2.08E-04	6.39E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
5145	457182.9	3768449	0.000688	3.52E-05	0.00E+00	6.88E-04	3.52E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.80E-05	2.05E-06	0.00E+00
5146	457122.6	3768410	0.000679	3.48E-05	0.00E+00	6.79E-04	3.48E-05	0.00E+00	2.03E-04	6.26E-06	0.00E+00	7.70E-05	2.02E-06	0.00E+00
5147	457118.9	3768401	0.000692	3.55E-05	0.00E+00	6.92E-04	3.55E-05	0.00E+00	2.07E-04	6.38E-06	0.00E+00	7.86E-05	2.06E-06	0.00E+00
5148	457115.2	3768392	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.11E-04	6.51E-06	0.00E+00	8.01E-05	2.10E-06	0.00E+00
5149	457111.5	3768384	0.00072	3.69E-05	0.00E+00	7.20E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.17E-05	2.14E-06	0.00E+00
5150	457107.8	3768375	0.000735	3.77E-05	0.00E+00	7.35E-04	3.77E-05	0.00E+00	2.20E-04	6.77E-06	0.00E+00	8.33E-05	2.19E-06	0.00E+00
5151	457104.1	3768366	0.00075	3.84E-05	0.00E+00	7.50E-04	3.84E-05	0.00E+00	2.24E-04	6.91E-06	0.00E+00	8.50E-05	2.23E-06	0.00E+00
5152	457100.4	3768357	0.000765	3.92E-05	0.00E+00	7.65E-04	3.92E-05	0.00E+00	2.29E-04	7.05E-06	0.00E+00	8.67E-05	2.28E-06	0.00E+00
5153	457096.8	3768348	0.00078	4.00E-05	0.00E+00	7.80E-04	4.00E-05	0.00E+00	2.34E-04	7.19E-06	0.00E+00	8.85E-05	2.32E-06	0.00E+00
5154	457093.1	3768340	0.000795	4.08E-05	0.00E+00	7.95E-04	4.08E-05	0.00E+00	2.38E-04	7.33E-06	0.00E+00	9.02E-05	2.37E-06	0.00E+00
5155	457089.4	3768331	0.000811	4.16E-05	0.00E+00	8.11E-04	4.16E-05	0.00E+00	2.43E-04	7.48E-06	0.00E+00	9.20E-05	2.41E-06	0.00E+00
5156	457085.7	3768322	0.000827	4.24E-05	0.00E+00	8.27E-04	4.24E-05	0.00E+00	2.48E-04	7.63E-06	0.00E+00	9.39E-05	2.46E-06	0.00E+00
5157	457082	3768313	0.000844	4.33E-05	0.00E+00	8.44E-04	4.33E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.57E-05	2.51E-06	0.00E+00
5158	457078.3	3768305	0.00086	4.41E-05	0.00E+00	8.60E-04	4.41E-05	0.00E+00	2.58E-04	7.93E-06	0.00E+00	9.76E-05	2.56E-06	0.00E+00
5159	457074.6	3768296	0.000877	4.50E-05	0.00E+00	8.77E-04	4.50E-05	0.00E+00	2.63E-04	8.09E-06	0.00E+00	9.95E-05	2.61E-06	0.00E+00
5160	457070.9	3768287	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
5161	457067.2	3768278	0.000912	4.67E-05	0.00E+00	9.12E-04	4.67E-05	0.00E+00	2.73E-04	8.40E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
5162	457063.5	3768269	0.000929	4.76E-05	0.00E+00	9.29E-04	4.76E-05	0.00E+00	2.78E-04	8.57E-06	0.00E+00	1.05E-04	2.77E-06	0.00E+00
5163	457059.8	3768261	0.000947	4.86E-05	0.00E+00	9.47E-04	4.86E-05	0.00E+00	2.84E-04	8.73E-06	0.00E+00	1.07E-04	2.82E-06	0.00E+00
5164	457056.1	3768252	0.000965	4.95E-05	0.00E+00	9.65E-04	4.95E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
5165	457052.4	3768243	0.000983	5.04E-05	0.00E+00	9.83E-04	5.04E-05	0.00E+00	2.94E-04	9.06E-06	0.00E+00	1.11E-04	2.92E-06	0.00E+00
5166	457333.8	3768507	0.000771	3.95E-05	0.00E+00	7.71E-04	3.95E-05	0.00E+00	2.31E-04	7.10E-06	0.00E+00	8.74E-05	2.29E-06	0.00E+00
5167	457343.7	3768507	0.000789	4.04E-05	0.00E+00	7.89E-04	4.04E-05	0.00E+00	2.36E-04	7.27E-06	0.00E+00	8.95E-05	2.35E-06	0.00E+00
5168	457353.7	3768507	0.000808	4.14E-05	0.00E+00	8.08E-04	4.14E-05	0.00E+00	2.42E-04	7.44E-06	0.00E+00	9.16E-05	2.40E-06	0.00E+00
5169	457363.7	3768507	0.000827	4.24E-05	0.00E+00	8.27E-04	4.24E-05	0.00E+00	2.48E-04	7.63E-06	0.00E+00	9.39E-05	2.46E-06	0.00E+00
5170	457373.7	3768507	0.000848	4.35E-05	0.00E+00	8.48E-04	4.35E-05	0.00E+00	2.54E-04	7.82E-06	0.00E+00	9.62E-05	2.52E-06	0.00E+00
5171	457383.6	3768507	0.000871	4.46E-05	0.00E+00	8.71E-04	4.46E-05	0.00E+00	2.61E-04	8.02E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
5172	457393.6	3768507	0.000894	4.58E-05	0.00E+00	8.94E-04	4.58E-05	0.00E+00	2.68E-04	8.24E-06	0.00E+00	1.01E-04	2.66E-06	0.00E+00
5173	457403.6	3768507	0.000919	4.71E-05	0.00E+00	9.19E-04	4.71E-05	0.00E+00	2.75E-04	8.47E-06	0.00E+00	1.04E-04	2.73E-06	0.00E+00
5174	457413.5	3768507	0.000945	4.85E-05	0.00E+00	9.45E-04	4.85E-05	0.00E+00	2.83E-04	8.71E-06	0.00E+00	1.07E-04	2.81E-06	0.00E+00
5175	457423.5	3768507	0.000974	4.99E-05	0.00E+00	9.74E-04	4.99E-05	0.00E+00	2.92E-04	8.98E-06	0.00E+00	1.10E-04	2.90E-06	0.00E+00
5176	457433.5	3768507	0.001004	5.15E-05	0.00E+00	1.00E-03	5.15E-05	0.00E+00	3.01E-04	9.26E-06	0.00E+00	1.14E-04	2.99E-06	0.00E+00
5177	457443.5	3768507	0.001037	5.31E-05	0.00E+00	1.04E-03	5.31E-05	0.00E+00	3.10E-04	9.56E-06	0.00E+00	1.18E-04	3.08E-06	0.00E+00
5178	457453.4	3768507	0.001071	5.49E-05	0.00E+00	1.07E-03	5.49E-05	0.00E+00	3.21E-04	9.87E-06	0.00E+00	1.22E-04	3.19E-06	0.00E+00
5179	457463.4	3768507	0.001108	5.68E-05	0.00E+00	1.11E-03	5.68E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
5180	457473.4	3768507	0.001146	5.87E-05	0.00E+00	1.15E-03	5.87E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
5181	457483.3	3768507	0.001186	6.08E-05	0.00E+00	1.19E-03	6.08E-05	0.00E+00	3.55E-04	1.09E-05	0.00E+00	1.35E-04	3.53E-06	0.00E+00

5182	457493.3	3768507	0.001228	6.30E-05	0.00E+00	1.23E-03	6.30E-05	0.00E+00	3.68E-04	1.13E-05	0.00E+00	1.39E-04	3.66E-06	0.00E+00
5183	457503.3	3768507	0.001272	6.52E-05	0.00E+00	1.27E-03	6.52E-05	0.00E+00	3.81E-04	1.17E-05	0.00E+00	1.44E-04	3.79E-06	0.00E+00
5184	457513.2	3768507	0.001318	6.76E-05	0.00E+00	1.32E-03	6.76E-05	0.00E+00	3.95E-04	1.22E-05	0.00E+00	1.50E-04	3.92E-06	0.00E+00
5185	457523.2	3768507	0.001365	7.00E-05	0.00E+00	1.37E-03	7.00E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.06E-06	0.00E+00
5186	457533.2	3768507	0.001414	7.25E-05	0.00E+00	1.41E-03	7.25E-05	0.00E+00	4.24E-04	1.30E-05	0.00E+00	1.60E-04	4.21E-06	0.00E+00
5187	457543.2	3768507	0.001465	7.51E-05	0.00E+00	1.47E-03	7.51E-05	0.00E+00	4.39E-04	1.35E-05	0.00E+00	1.66E-04	4.36E-06	0.00E+00
5188	457553.1	3768507	0.001518	7.78E-05	0.00E+00	1.52E-03	7.78E-05	0.00E+00	4.55E-04	1.40E-05	0.00E+00	1.72E-04	4.52E-06	0.00E+00
5189	457563.1	3768507	0.001572	8.06E-05	0.00E+00	1.57E-03	8.06E-05	0.00E+00	4.71E-04	1.45E-05	0.00E+00	1.78E-04	4.68E-06	0.00E+00
5190	457573.1	3768507	0.001509	7.74E-05	0.00E+00	1.51E-03	7.74E-05	0.00E+00	4.52E-04	1.39E-05	0.00E+00	1.71E-04	4.49E-06	0.00E+00
5191	457583	3768507	0.001559	7.99E-05	0.00E+00	1.56E-03	7.99E-05	0.00E+00	4.67E-04	1.44E-05	0.00E+00	1.77E-04	4.64E-06	0.00E+00
5192	457593	3768507	0.00161	8.25E-05	0.00E+00	1.61E-03	8.25E-05	0.00E+00	4.82E-04	1.48E-05	0.00E+00	1.83E-04	4.79E-06	0.00E+00
5193	457603	3768507	0.001664	8.53E-05	0.00E+00	1.66E-03	8.53E-05	0.00E+00	4.98E-04	1.53E-05	0.00E+00	1.89E-04	4.95E-06	0.00E+00
5194	457612.9	3768507	0.00172	8.82E-05	0.00E+00	1.72E-03	8.82E-05	0.00E+00	5.15E-04	1.59E-05	0.00E+00	1.95E-04	5.12E-06	0.00E+00
5195	457622.9	3768507	0.001777	9.11E-05	0.00E+00	1.78E-03	9.11E-05	0.00E+00	5.32E-04	1.64E-05	0.00E+00	2.02E-04	5.29E-06	0.00E+00
5196	457632.9	3768507	0.001834	9.40E-05	0.00E+00	1.83E-03	9.40E-05	0.00E+00	5.49E-04	1.69E-05	0.00E+00	2.08E-04	5.46E-06	0.00E+00
5197	457642.9	3768507	0.001886	9.67E-05	0.00E+00	1.89E-03	9.67E-05	0.00E+00	5.65E-04	1.74E-05	0.00E+00	2.14E-04	5.61E-06	0.00E+00
5198	457652.8	3768507	0.001939	9.94E-05	0.00E+00	1.94E-03	9.94E-05	0.00E+00	5.81E-04	1.79E-05	0.00E+00	2.20E-04	5.77E-06	0.00E+00
5199	457662.8	3768507	0.001994	1.02E-04	0.00E+00	1.99E-03	1.02E-04	0.00E+00	5.97E-04	1.84E-05	0.00E+00	2.26E-04	5.93E-06	0.00E+00
5200	457672.8	3768507	0.002053	1.05E-04	0.00E+00	2.05E-03	1.05E-04	0.00E+00	6.15E-04	1.89E-05	0.00E+00	2.33E-04	6.11E-06	0.00E+00
5201	457682.7	3768507	0.002112	1.08E-04	0.00E+00	2.11E-03	1.08E-04	0.00E+00	6.33E-04	1.95E-05	0.00E+00	2.40E-04	6.28E-06	0.00E+00
5202	457692.7	3768507	0.002169	1.11E-04	0.00E+00	2.17E-03	1.11E-04	0.00E+00	6.50E-04	2.00E-05	0.00E+00	2.46E-04	6.46E-06	0.00E+00
5203	457702.7	3768507	0.002224	1.14E-04	0.00E+00	2.22E-03	1.14E-04	0.00E+00	6.66E-04	2.05E-05	0.00E+00	2.52E-04	6.62E-06	0.00E+00
5204	457296.2	3768521	0.000674	3.45E-05	0.00E+00	6.74E-04	3.45E-05	0.00E+00	2.02E-04	6.21E-06	0.00E+00	7.64E-05	2.00E-06	0.00E+00
5205	457287.1	3768517	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
5206	457277.9	3768513	0.000668	3.42E-05	0.00E+00	6.68E-04	3.42E-05	0.00E+00	2.00E-04	6.16E-06	0.00E+00	7.58E-05	1.99E-06	0.00E+00
5207	457268.7	3768509	0.000665	3.41E-05	0.00E+00	6.65E-04	3.41E-05	0.00E+00	1.99E-04	6.13E-06	0.00E+00	7.54E-05	1.98E-06	0.00E+00
5208	457259.5	3768506	0.000662	3.39E-05	0.00E+00	6.62E-04	3.39E-05	0.00E+00	1.98E-04	6.10E-06	0.00E+00	7.51E-05	1.97E-06	0.00E+00
5209	457250.3	3768502	0.000659	3.38E-05	0.00E+00	6.59E-04	3.38E-05	0.00E+00	1.97E-04	6.08E-06	0.00E+00	7.48E-05	1.96E-06	0.00E+00
5210	457241.1	3768498	0.000656	3.36E-05	0.00E+00	6.56E-04	3.36E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
5211	457231.9	3768494	0.000653	3.35E-05	0.00E+00	6.53E-04	3.35E-05	0.00E+00	1.95E-04	6.02E-06	0.00E+00	7.41E-05	1.94E-06	0.00E+00
5212	457222.7	3768491	0.000649	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.36E-05	1.93E-06	0.00E+00
5213	457213.5	3768487	0.000645	3.31E-05	0.00E+00	6.45E-04	3.31E-05	0.00E+00	1.93E-04	5.95E-06	0.00E+00	7.32E-05	1.92E-06	0.00E+00
5214	457204.3	3768483	0.000641	3.29E-05	0.00E+00	6.41E-04	3.29E-05	0.00E+00	1.92E-04	5.91E-06	0.00E+00	7.27E-05	1.91E-06	0.00E+00
5215	457195.1	3768479	0.000637	3.26E-05	0.00E+00	6.37E-04	3.26E-05	0.00E+00	1.91E-04	5.87E-06	0.00E+00	7.22E-05	1.89E-06	0.00E+00
5216	457185.9	3768475	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
5217	457176.8	3768472	0.000628	3.22E-05	0.00E+00	6.28E-04	3.22E-05	0.00E+00	1.88E-04	5.79E-06	0.00E+00	7.12E-05	1.87E-06	0.00E+00
5218	457167.6	3768468	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00
5219	457158.4	3768464	0.000618	3.17E-05	0.00E+00	6.18E-04	3.17E-05	0.00E+00	1.85E-04	5.70E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
5220	457149.2	3768460	0.000613	3.14E-05	0.00E+00	6.13E-04	3.14E-05	0.00E+00	1.84E-04	5.65E-06	0.00E+00	6.95E-05	1.82E-06	0.00E+00
5221	457140	3768457	0.000607	3.11E-05	0.00E+00	6.07E-04	3.11E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
5222	457130.8	3768453	0.000602	3.09E-05	0.00E+00	6.02E-04	3.09E-05	0.00E+00	1.80E-04	5.55E-06	0.00E+00	6.83E-05	1.79E-06	0.00E+00
5223	457121.6	3768449	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
5224	457097	3768409	0.000639	3.28E-05	0.00E+00	6.39E-04	3.28E-05	0.00E+00	1.91E-04	5.89E-06	0.00E+00	7.25E-05	1.90E-06	0.00E+00
5225	457093.1	3768399	0.000651	3.34E-05	0.00E+00	6.51E-04	3.34E-05	0.00E+00	1.95E-04	6.00E-06	0.00E+00	7.39E-05	1.94E-06	0.00E+00
5226	457089.3	3768390	0.000664	3.40E-05	0.00E+00	6.64E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.98E-06	0.00E+00
5227	457085.4	3768381	0.000677	3.47E-05	0.00E+00	6.77E-04	3.47E-05	0.00E+00	2.03E-04	6.24E-06	0.00E+00	7.68E-05	2.01E-06	0.00E+00
5228	457081.6	3768372	0.00069	3.54E-05	0.00E+00	6.90E-04	3.54E-05	0.00E+00	2.07E-04	6.36E-06	0.00E+00	7.83E-05	2.05E-06	0.00E+00
5229	457077.7	3768363	0.000704	3.61E-05	0.00E+00	7.04E-04	3.61E-05	0.00E+00	2.11E-04	6.49E-06	0.00E+00	7.99E-05	2.09E-06	0.00E+00
5230	457073.8	3768354	0.000718	3.68E-05	0.00E+00	7.18E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.14E-06	0.00E+00
5231	457070	3768344	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.74E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
5232	457066.1	3768335	0.000746	3.82E-05	0.00E+00	7.46E-04	3.82E-05	0.00E+00	2.23E-04	6.87E-06	0.00E+00	8.46E-05	2.22E-06	0.00E+00
5233	457062.3	3768326	0.00076	3.90E-05	0.00E+00	7.60E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.62E-05	2.26E-06	0.00E+00
5234	457058.4	3768317	0.000775	3.97E-05	0.00E+00	7.75E-04	3.97E-05	0.00E+00	2.32E-04	7.14E-06	0.00E+00	8.79E-05	2.31E-06	0.00E+00
5235	457054.6	3768308	0.00079	4.05E-05	0.00E+00	7.90E-04	4.05E-05	0.00E+00	2.37E-04	7.28E-06	0.00E+00	8.96E-05	2.35E-06	0.00E+00
5236	457050.7	3768299	0.000805	4.13E-05	0.00E+00	8.05E-04	4.13E-05	0.00E+00	2.41E-04	7.42E-06	0.00E+00	9.13E-05	2.40E-06	0.00E+00
5237	457046.8	3768289	0.00082	4.21E-05	0.00E+00	8.20E-04	4.21E-05	0.00E+00	2.46E-04	7.56E-06	0.00E+00	9.31E-05	2.44E-06	0.00E+00
5238	457043	3768280	0.000836	4.29E-05	0.00E+00	8.36E-04	4.29E-05	0.00E+00	2.50E-04	7.71E-06	0.00E+00	9.48E-05	2.49E-06	0.00E+00
5239	457039.1	3768271	0.000852	4.37E-05	0.00E+00	8.52E-04	4.37E-05	0.00E+00	2.55E-04	7.85E-06	0.00E+00	9.66E-05	2.53E-06	0.00E+00
5240	457035.3	3768262	0.000867	4.45E-05	0.00E+00	8.67E-04	4.45E-05	0.00E+00	2.60E-04	8.00E-06	0.00E+00	9.84E-05	2.58E-06	0.00E+00
5241	457031.4	3768253	0.000883	4.53E-05	0.00E+00	8.83E-04	4.53E-05	0.00E+00	2.64E-04	8.14E-06	0.00E+00	1.00E-04	2.63E-06	0.00E+00
5242	457027.6	3768244	0.000899	4.61E-05	0.00E+00	8.99E-04	4.61E-05	0.00E+00	2.69E-04	8.29E-06	0.00E+00	1.02E-04	2.68E-06	0.00E+00
5243	457333.8	3768532	0.000696	3.57E-05	0.00E+00	6.96E-04	3.57E-05	0.00E+00	2.08E-04	6.41E-06	0.00E+00	7.89E-05	2.07E-06	0.00E+00
5244	457343.8	3768532	0.000711	3.64E-05	0.00E+00	7.11E-04	3.64E-05	0.00E+00	2.13E-04	6.55E-06	0.00E+00	8.06E-05	2.11E-06	0.00E+00
5245	457353.7	3768532	0.000726	3.72E-05	0.00E+00	7.26E-04	3.72E-05	0.00E+00	2.18E-04	6.69E-06	0.00E+00	8.24E-05	2.16E-06	0.00E+00
5246	457363.7	3768532	0.000742	3.81E-05	0.00E+00	7.42E-04	3.81E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
5247	457373.7	3768532	0.000759	3.89E-05	0.00E+00	7.59E-04	3.89E-05	0.00E+00	2.27E-04	7.00E-06	0.00E+00	8.61E-05	2.26E-06	0.00E+00
5248	457383.6	3768532	0.000777	3.98E-05	0.00E+00	7.77E-04	3.98E-05	0.00E+00	2.33E-04	7.16E-06	0.00E+00	8.82E-05	2.31E-06	0.00E+00
5249	457393.6	3768532	0.000796	4.08E-05	0.00E+00	7.96E-04	4.08E-05	0.00E+00	2.38E-04	7.34E-06	0.00E+00	9.03E-05	2.37E-06	0.00E+00
5250	457403.6	3768532	0.000817	4.19E-05	0.00E+00	8.17E-04	4.19E-05	0.00E+00	2.45E-04	7.53E-06	0.00E+00	9.26E-05	2.43E-06	0.00E+00
5251	457413.6	3768532	0.000838	4.30E-05	0.00E+00	8.38E-04	4.30E-05	0.00E+00	2.51E-04	7.73E-06	0.00E+00	9.51E-05	2.49E-06	0.00E+00
5252	457423.5	3768532	0.000861	4.42E-05	0.00E+00	8.61E-04	4.42E-05	0.00E+00	2.58E-04	7.94E-06	0.00E+00	9.77E-05	2.56E-06	0.00E+00
5253	457433.5	3768532	0.000886	4.54E-05	0.00E+00	8.86E-04	4.54E-05	0.00E+00	2.65E-04	8.16E-06	0.00E+00	1.00E-04	2.64E-06	0.00E+00
5254	457443.5	3768532	0.000912	4.67E-05	0.00E+00	9.12E-04	4.67E-05	0.00E+00	2.73E-04	8.40E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
5255	457453.4	3768532	0.000939	4.81E-05	0.00E+00	9.39E-04	4.81E-05	0.00E+00	2.81E-04	8.66E-06	0.00E+00	1.07E-04	2.79E-06	0.00E+00
5256	457463.4	3768532	0.000968	4.96E-05	0.00E+00	9.68E-04	4.96E-05	0.00E+00	2.90E-04	8.92E-06	0.00E+00	1.10E-04	2.88E-06	0.00E+00
5257	457473.4	3768532	0.000999	5.12E-05	0.00E+00	9.99E-04	5.12E-05	0.00E+00	2.99E-04	9.21E-06	0.00E+00	1.13E-04	2.97E-06	0.00E+00
5258	457483.3	3768532	0.001031	5.29E-05	0.00E+00	1.03E-03	5.29E-05	0.00E+00	3.09E-04	9.51E-06	0.00E+00	1.17E-04	3.07E-06	0.00E+00
5259	457493.3	3768532	0.001065	5.46E-05	0.00E+00	1.06E-03	5.46E-05	0.00E+00	3.19E-04	9.81E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
5260	457503.3	3768532	0.0011	5.64E-05	0.00E+00	1.10E-03	5.64E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.25E-04	3.27E-06	0.00E+00
5261	457513.3	3768532	0.001137	5.83E-05	0.00E+00	1.14E-03	5.83E-05	0.00E+00	3.40E-04	1.05E-05	0.00E+00	1.29E-04	3.38E-06	0.00E+00
5262	457523.2	3768532	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
5263	457533.2	3768532	0.001216	6.23E-05	0.00E+00	1.22E-03	6.23E-05	0.00E+00	3.64E-04	1.12E-05	0.00E+00	1.38E-04	3.62E-06	0.00E+00
5264	457543.2	3768532	0.001168	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
5265	457553.1	3768532	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
5266	457563.1	3768532	0.001245	6.38E-05	0.00E+00	1.24E-03	6.38E-05	0.00E+00	3.73E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
5267	457573.1	3768532	0.001284	6.58E-05	0.00E+00	1.28E-03	6.58E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
5268	457583	3768532	0.001321	6.77E-05	0.00E+00	1.32E-03	6.77E-05	0.00E+00	3.96E-04	1.22E-05	0.00E+00	1.50E-04	3.93E-06	0.00E+00
5269	457593	3768532	0.00136	6.97E-05	0.00E+00	1.36E-03	6.97E-05	0.00E+00	4.07E-04	1.25E-05	0.00E+00	1.54E-04	4.05E-06	0.00E+00
5270	457603	3768532	0.001401	7.18E-05	0.00E+00	1.40E-03	7.18E-05	0.00E+00	4.20E-04	1.29E-05	0.00E+00	1.59E-04	4.17E-06	0.00E+00
5271	457613	3768532	0.001448	7.42E-05	0.00E+00	1.45E-03	7.42E-05	0.00E+00	4.34E-04	1.33E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
5272	457622.9	3768532	0.001495	7.67E-05	0.00E+00	1.50E-03	7.67E-05	0.00E+00	4.48E-04	1.38E-05	0.00E+00	1.70E-04	4.45E-06	0.00E+00
5273	457632.9	3768532	0.001544	7.92E-05	0.00E+00	1.54E-03	7.92E-05	0.00E+00	4.62E-04	1.42E-05	0.00E+00	1.75E-04	4.59E-06	0.00E+00
5274	457642.9	3768532	0.001593	8.17E-05	0.00E+00	1.59E-03	8.17E-05	0.00E+00	4.77E-04	1.47E-05	0.00E+00	1.81E-04	4.74E-06	0.00E+00
5275	457652.8	3768532	0.001644	8.43E-05	0.00E+00	1.64E-03	8.43E-05	0.00E+00	4.92E-04	1.51E-05	0.00E+00	1.86E-04	4.89E-06	0.00E+00
5276	457662.8	3768532	0.001694	8.68E-05	0.00E+00	1.69E-03	8.68E-05	0.00E+00	5.07E-04	1.56E-05	0.00E+00	1.92E-04	5.04E-06	0.00E+00
5277	457672.8	3768532	0.001743	8.94E-05	0.00E+00	1.74E-03	8.94E-05	0.00E+00	5.22E-04	1.61E-05	0.00E+00	1.98E-04	5.19E-06	0.00E+00

5278	457682.7	3768532	0.001792	9.19E-05	0.00E+00	1.79E-03	9.19E-05	0.00E+00	5.37E-04	1.65E-05	0.00E+00	2.03E-04	5.33E-06	0.00E+00
5279	457692.7	3768532	0.00184	9.44E-05	0.00E+00	1.84E-03	9.44E-05	0.00E+00	5.51E-04	1.70E-05	0.00E+00	2.09E-04	5.48E-06	0.00E+00
5280	457702.7	3768532	0.001885	9.66E-05	0.00E+00	1.88E-03	9.66E-05	0.00E+00	5.64E-04	1.74E-05	0.00E+00	2.14E-04	5.61E-06	0.00E+00
5281	457296.3	3768546	0.000614	3.15E-05	0.00E+00	6.14E-04	3.15E-05	0.00E+00	1.84E-04	5.66E-06	0.00E+00	6.96E-05	1.83E-06	0.00E+00
5282	457287.2	3768542	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
5283	457278	3768538	0.00061	3.13E-05	0.00E+00	6.10E-04	3.13E-05	0.00E+00	1.83E-04	5.62E-06	0.00E+00	6.92E-05	1.81E-06	0.00E+00
5284	457268.9	3768535	0.000608	3.11E-05	0.00E+00	6.08E-04	3.11E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
5285	457259.7	3768531	0.000605	3.10E-05	0.00E+00	6.05E-04	3.10E-05	0.00E+00	1.81E-04	5.58E-06	0.00E+00	6.87E-05	1.80E-06	0.00E+00
5286	457250.5	3768527	0.000603	3.09E-05	0.00E+00	6.03E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.84E-05	1.79E-06	0.00E+00
5287	457241.4	3768523	0.0006	3.08E-05	0.00E+00	6.00E-04	3.08E-05	0.00E+00	1.80E-04	5.53E-06	0.00E+00	6.81E-05	1.79E-06	0.00E+00
5288	457232.2	3768519	0.000598	3.06E-05	0.00E+00	5.98E-04	3.06E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.78E-05	1.78E-06	0.00E+00
5289	457223.1	3768516	0.000595	3.05E-05	0.00E+00	5.95E-04	3.05E-05	0.00E+00	1.78E-04	5.48E-06	0.00E+00	6.75E-05	1.77E-06	0.00E+00
5290	457213.9	3768512	0.000592	3.03E-05	0.00E+00	5.92E-04	3.03E-05	0.00E+00	1.77E-04	5.46E-06	0.00E+00	6.71E-05	1.76E-06	0.00E+00
5291	457204.7	3768508	0.000589	3.02E-05	0.00E+00	5.89E-04	3.02E-05	0.00E+00	1.76E-04	5.43E-06	0.00E+00	6.68E-05	1.75E-06	0.00E+00
5292	457195.6	3768504	0.000585	3.00E-05	0.00E+00	5.85E-04	3.00E-05	0.00E+00	1.75E-04	5.40E-06	0.00E+00	6.64E-05	1.74E-06	0.00E+00
5293	457186.4	3768501	0.000582	2.98E-05	0.00E+00	5.82E-04	2.98E-05	0.00E+00	1.74E-04	5.37E-06	0.00E+00	6.60E-05	1.73E-06	0.00E+00
5294	457177.3	3768497	0.000578	2.97E-05	0.00E+00	5.78E-04	2.97E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
5295	457168.1	3768493	0.000575	2.95E-05	0.00E+00	5.75E-04	2.95E-05	0.00E+00	1.72E-04	5.30E-06	0.00E+00	6.52E-05	1.71E-06	0.00E+00
5296	457158.9	3768489	0.000571	2.93E-05	0.00E+00	5.71E-04	2.93E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
5297	457149.8	3768486	0.000566	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.70E-04	5.22E-06	0.00E+00	6.43E-05	1.69E-06	0.00E+00
5298	457140.6	3768482	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.38E-05	1.67E-06	0.00E+00
5299	457131.5	3768478	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
5300	457122.3	3768474	0.000553	2.84E-05	0.00E+00	5.53E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.27E-05	1.65E-06	0.00E+00
5301	457113.1	3768470	0.000548	2.81E-05	0.00E+00	5.48E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.22E-05	1.63E-06	0.00E+00
5302	457104	3768467	0.000544	2.79E-05	0.00E+00	5.44E-04	2.79E-05	0.00E+00	1.63E-04	5.01E-06	0.00E+00	6.17E-05	1.62E-06	0.00E+00
5303	457091	3768454	0.000549	2.81E-05	0.00E+00	5.49E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.23E-05	1.63E-06	0.00E+00
5304	457071.7	3768408	0.000601	3.08E-05	0.00E+00	6.01E-04	3.08E-05	0.00E+00	1.80E-04	5.54E-06	0.00E+00	6.82E-05	1.79E-06	0.00E+00
5305	457067.9	3768399	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
5306	457064.1	3768390	0.000623	3.19E-05	0.00E+00	6.23E-04	3.19E-05	0.00E+00	1.87E-04	5.74E-06	0.00E+00	7.07E-05	1.85E-06	0.00E+00
5307	457060.2	3768381	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.85E-06	0.00E+00	7.20E-05	1.89E-06	0.00E+00
5308	457056.4	3768372	0.000646	3.31E-05	0.00E+00	6.46E-04	3.31E-05	0.00E+00	1.94E-04	5.96E-06	0.00E+00	7.33E-05	1.92E-06	0.00E+00
5309	457052.5	3768362	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.07E-06	0.00E+00	7.47E-05	1.96E-06	0.00E+00
5310	457048.7	3768353	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.60E-05	1.99E-06	0.00E+00
5311	457044.8	3768344	0.000682	3.50E-05	0.00E+00	6.82E-04	3.50E-05	0.00E+00	2.04E-04	6.29E-06	0.00E+00	7.74E-05	2.03E-06	0.00E+00
5312	457041	3768335	0.000695	3.56E-05	0.00E+00	6.95E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
5313	457037.1	3768326	0.000707	3.63E-05	0.00E+00	7.07E-04	3.63E-05	0.00E+00	2.12E-04	6.52E-06	0.00E+00	8.02E-05	2.10E-06	0.00E+00
5314	457033.3	3768317	0.00072	3.69E-05	0.00E+00	7.20E-04	3.69E-05	0.00E+00	2.16E-04	6.64E-06	0.00E+00	8.17E-05	2.14E-06	0.00E+00
5315	457029.5	3768308	0.000733	3.76E-05	0.00E+00	7.33E-04	3.76E-05	0.00E+00	2.20E-04	6.76E-06	0.00E+00	8.32E-05	2.18E-06	0.00E+00
5316	457025.6	3768299	0.000746	3.83E-05	0.00E+00	7.46E-04	3.83E-05	0.00E+00	2.24E-04	6.88E-06	0.00E+00	8.47E-05	2.22E-06	0.00E+00
5317	457021.8	3768289	0.00076	3.89E-05	0.00E+00	7.60E-04	3.89E-05	0.00E+00	2.27E-04	7.00E-06	0.00E+00	8.62E-05	2.26E-06	0.00E+00
5318	457017.9	3768280	0.000773	3.96E-05	0.00E+00	7.73E-04	3.96E-05	0.00E+00	2.32E-04	7.13E-06	0.00E+00	8.77E-05	2.30E-06	0.00E+00
5319	457014.1	3768271	0.000786	4.03E-05	0.00E+00	7.86E-04	4.03E-05	0.00E+00	2.36E-04	7.25E-06	0.00E+00	8.92E-05	2.34E-06	0.00E+00
5320	457010.2	3768262	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.38E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
5321	457006.4	3768253	0.000814	4.17E-05	0.00E+00	8.14E-04	4.17E-05	0.00E+00	2.44E-04	7.50E-06	0.00E+00	9.23E-05	2.42E-06	0.00E+00
5322	457002.5	3768244	0.000828	4.24E-05	0.00E+00	8.28E-04	4.24E-05	0.00E+00	2.48E-04	7.63E-06	0.00E+00	9.39E-05	2.46E-06	0.00E+00
5323	457333.8	3768557	0.000631	3.24E-05	0.00E+00	6.31E-04	3.24E-05	0.00E+00	1.89E-04	5.82E-06	0.00E+00	7.16E-05	1.88E-06	0.00E+00
5324	457343.8	3768557	0.000644	3.30E-05	0.00E+00	6.44E-04	3.30E-05	0.00E+00	1.93E-04	5.93E-06	0.00E+00	7.30E-05	1.92E-06	0.00E+00
5325	457353.7	3768557	0.000656	3.37E-05	0.00E+00	6.56E-04	3.37E-05	0.00E+00	1.97E-04	6.05E-06	0.00E+00	7.45E-05	1.95E-06	0.00E+00
5326	457363.7	3768557	0.00067	3.44E-05	0.00E+00	6.70E-04	3.44E-05	0.00E+00	2.01E-04	6.18E-06	0.00E+00	7.60E-05	1.99E-06	0.00E+00
5327	457373.7	3768557	0.000684	3.51E-05	0.00E+00	6.84E-04	3.51E-05	0.00E+00	2.05E-04	6.31E-06	0.00E+00	7.76E-05	2.04E-06	0.00E+00
5328	457383.7	3768557	0.000699	3.59E-05	0.00E+00	6.99E-04	3.59E-05	0.00E+00	2.09E-04	6.45E-06	0.00E+00	7.93E-05	2.08E-06	0.00E+00
5329	457393.6	3768557	0.000715	3.67E-05	0.00E+00	7.15E-04	3.67E-05	0.00E+00	2.14E-04	6.59E-06	0.00E+00	8.11E-05	2.13E-06	0.00E+00
5330	457403.6	3768557	0.000732	3.75E-05	0.00E+00	7.32E-04	3.75E-05	0.00E+00	2.19E-04	6.75E-06	0.00E+00	8.30E-05	2.18E-06	0.00E+00
5331	457413.6	3768557	0.00075	3.84E-05	0.00E+00	7.50E-04	3.84E-05	0.00E+00	2.25E-04	6.91E-06	0.00E+00	8.51E-05	2.23E-06	0.00E+00
5332	457423.5	3768557	0.000768	3.94E-05	0.00E+00	7.68E-04	3.94E-05	0.00E+00	2.30E-04	7.08E-06	0.00E+00	8.72E-05	2.29E-06	0.00E+00
5333	457433.5	3768557	0.000788	4.04E-05	0.00E+00	7.88E-04	4.04E-05	0.00E+00	2.36E-04	7.26E-06	0.00E+00	8.94E-05	2.34E-06	0.00E+00
5334	457443.5	3768557	0.000808	4.14E-05	0.00E+00	8.08E-04	4.14E-05	0.00E+00	2.42E-04	7.45E-06	0.00E+00	9.17E-05	2.41E-06	0.00E+00
5335	457453.4	3768557	0.00083	4.26E-05	0.00E+00	8.30E-04	4.26E-05	0.00E+00	2.49E-04	7.65E-06	0.00E+00	9.42E-05	2.47E-06	0.00E+00
5336	457463.4	3768557	0.000854	4.38E-05	0.00E+00	8.54E-04	4.38E-05	0.00E+00	2.56E-04	7.87E-06	0.00E+00	9.69E-05	2.54E-06	0.00E+00
5337	457473.4	3768557	0.000879	4.51E-05	0.00E+00	8.79E-04	4.51E-05	0.00E+00	2.63E-04	8.10E-06	0.00E+00	9.97E-05	2.61E-06	0.00E+00
5338	457483.4	3768557	0.000905	4.64E-05	0.00E+00	9.05E-04	4.64E-05	0.00E+00	2.71E-04	8.34E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
5339	457493.3	3768557	0.000933	4.78E-05	0.00E+00	9.33E-04	4.78E-05	0.00E+00	2.79E-04	8.60E-06	0.00E+00	1.06E-04	2.78E-06	0.00E+00
5340	457503.3	3768557	0.000962	4.93E-05	0.00E+00	9.62E-04	4.93E-05	0.00E+00	2.88E-04	8.87E-06	0.00E+00	1.09E-04	2.86E-06	0.00E+00
5341	457513.3	3768557	0.000992	5.09E-05	0.00E+00	9.92E-04	5.09E-05	0.00E+00	2.97E-04	9.15E-06	0.00E+00	1.13E-04	2.95E-06	0.00E+00
5342	457523.2	3768557	0.000956	4.90E-05	0.00E+00	9.56E-04	4.90E-05	0.00E+00	2.86E-04	8.81E-06	0.00E+00	1.08E-04	2.84E-06	0.00E+00
5343	457533.2	3768557	0.000985	5.05E-05	0.00E+00	9.85E-04	5.05E-05	0.00E+00	2.95E-04	9.08E-06	0.00E+00	1.12E-04	2.93E-06	0.00E+00
5344	457543.2	3768557	0.001013	5.19E-05	0.00E+00	1.01E-03	5.19E-05	0.00E+00	3.03E-04	9.34E-06	0.00E+00	1.15E-04	3.01E-06	0.00E+00
5345	457553.1	3768557	0.001039	5.33E-05	0.00E+00	1.04E-03	5.33E-05	0.00E+00	3.11E-04	9.58E-06	0.00E+00	1.18E-04	3.09E-06	0.00E+00
5346	457563.1	3768557	0.001067	5.47E-05	0.00E+00	1.07E-03	5.47E-05	0.00E+00	3.19E-04	9.83E-06	0.00E+00	1.21E-04	3.17E-06	0.00E+00
5347	457573.1	3768557	0.001097	5.62E-05	0.00E+00	1.10E-03	5.62E-05	0.00E+00	3.29E-04	1.01E-05	0.00E+00	1.24E-04	3.26E-06	0.00E+00
5348	457583.1	3768557	0.001132	5.80E-05	0.00E+00	1.13E-03	5.80E-05	0.00E+00	3.39E-04	1.04E-05	0.00E+00	1.28E-04	3.37E-06	0.00E+00
5349	457593	3768557	0.001168	5.99E-05	0.00E+00	1.17E-03	5.99E-05	0.00E+00	3.50E-04	1.08E-05	0.00E+00	1.33E-04	3.48E-06	0.00E+00
5350	457603	3768557	0.001206	6.18E-05	0.00E+00	1.21E-03	6.18E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
5351	457613	3768557	0.001245	6.38E-05	0.00E+00	1.24E-03	6.38E-05	0.00E+00	3.73E-04	1.15E-05	0.00E+00	1.41E-04	3.70E-06	0.00E+00
5352	457622.9	3768557	0.001284	6.58E-05	0.00E+00	1.28E-03	6.58E-05	0.00E+00	3.85E-04	1.18E-05	0.00E+00	1.46E-04	3.82E-06	0.00E+00
5353	457632.9	3768557	0.001325	6.79E-05	0.00E+00	1.33E-03	6.79E-05	0.00E+00	3.97E-04	1.22E-05	0.00E+00	1.50E-04	3.94E-06	0.00E+00
5354	457642.9	3768557	0.001366	7.01E-05	0.00E+00	1.37E-03	7.01E-05	0.00E+00	4.09E-04	1.26E-05	0.00E+00	1.55E-04	4.07E-06	0.00E+00
5355	457652.8	3768557	0.001409	7.22E-05	0.00E+00	1.41E-03	7.22E-05	0.00E+00	4.22E-04	1.30E-05	0.00E+00	1.60E-04	4.19E-06	0.00E+00
5356	457662.8	3768557	0.001449	7.43E-05	0.00E+00	1.45E-03	7.43E-05	0.00E+00	4.34E-04	1.34E-05	0.00E+00	1.64E-04	4.31E-06	0.00E+00
5357	457672.8	3768557	0.001486	7.62E-05	0.00E+00	1.49E-03	7.62E-05	0.00E+00	4.45E-04	1.37E-05	0.00E+00	1.69E-04	4.42E-06	0.00E+00
5358	457682.8	3768557	0.001522	7.81E-05	0.00E+00	1.52E-03	7.81E-05	0.00E+00	4.56E-04	1.40E-05	0.00E+00	1.73E-04	4.53E-06	0.00E+00
5359	457692.7	3768557	0.001562	8.01E-05	0.00E+00	1.56E-03	8.01E-05	0.00E+00	4.68E-04	1.44E-05	0.00E+00	1.77E-04	4.65E-06	0.00E+00
5360	457702.7	3768557	0.001606	8.23E-05	0.00E+00	1.61E-03	8.23E-05	0.00E+00	4.81E-04	1.48E-05	0.00E+00	1.82E-04	4.78E-06	0.00E+00
5361	457296.4	3768571	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
5362	457287.3	3768567	0.00056	2.87E-05	0.00E+00	5.60E-04	2.87E-05	0.00E+00	1.68E-04	5.16E-06	0.00E+00	6.36E-05	1.67E-06	0.00E+00
5363	457278.2	3768563	0.000559	2.86E-05	0.00E+00	5.59E-04	2.86E-05	0.00E+00	1.67E-04	5.15E-06	0.00E+00	6.34E-05	1.66E-06	0.00E+00
5364	457269	3768560	0.000557	2.86E-05	0.00E+00	5.57E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.32E-05	1.66E-06	0.00E+00
5365	457259.9	3768556	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.66E-04	5.12E-06	0.00E+00	6.30E-05	1.65E-06	0.00E+00
5366	457250.8	3768552	0.000554	2.84E-05	0.00E+00	5.54E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.28E-05	1.65E-06	0.00E+00
5367	457241.6	3768548	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
5368	457232.5	3768545	0.00055	2.82E-05	0.00E+00	5.50E-04	2.82E-05	0.00E+00	1.65E-04	5.07E-06	0.00E+00	6.24E-05	1.64E-06	0.00E+00
5369	457223.4	3768541	0.000547	2.81E-05	0.00E+00	5.47E-04	2.81E-05	0.00E+00	1.64E-04	5.05E-06	0.00E+00	6.21E-05	1.63E-06	0.00E+00
5370	457214.2	3768537	0.000545	2.79E-05	0.00E+00	5.45E-04	2.79E-05	0.00E+00	1.63E-04	5.02E-06	0.00E+00	6.18E-05	1.62E-06	0.00E+00
5371	457205.1	3768533	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.00E-06	0.00E+00	6.16E-05	1.61E-06	0.00E+00
5372	457196	3768530	0.00054	2.77E-05	0.00E+00	5.40E-04	2.77E-05	0.00E+00	1.62E-04	4.98E-06	0.00E+00	6.13E-05	1.61E-06	0.00E+00
5373	457186.8	3768526	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00

5374	457177.7	3768522	0.000534	2.74E-05	0.00E+00	5.34E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.06E-05	1.59E-06	0.00E+00
5375	457168.6	3768518	0.000531	2.72E-05	0.00E+00	5.31E-04	2.72E-05	0.00E+00	1.59E-04	4.90E-06	0.00E+00	6.03E-05	1.58E-06	0.00E+00
5376	457159.4	3768515	0.000528	2.71E-05	0.00E+00	5.28E-04	2.71E-05	0.00E+00	1.58E-04	4.87E-06	0.00E+00	5.99E-05	1.57E-06	0.00E+00
5377	457150.3	3768511	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
5378	457141.1	3768507	0.000521	2.67E-05	0.00E+00	5.21E-04	2.67E-05	0.00E+00	1.56E-04	4.81E-06	0.00E+00	5.91E-05	1.55E-06	0.00E+00
5379	457132	3768503	0.000518	2.65E-05	0.00E+00	5.18E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
5380	457122.9	3768499	0.000514	2.63E-05	0.00E+00	5.14E-04	2.63E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
5381	457113.7	3768496	0.00051	2.61E-05	0.00E+00	5.10E-04	2.61E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
5382	457104.6	3768492	0.000506	2.59E-05	0.00E+00	5.06E-04	2.59E-05	0.00E+00	1.52E-04	4.66E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
5383	457095.5	3768488	0.000502	2.57E-05	0.00E+00	5.02E-04	2.57E-05	0.00E+00	1.50E-04	4.63E-06	0.00E+00	5.70E-05	1.49E-06	0.00E+00
5384	457086.3	3768484	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
5385	457073.4	3768472	0.000502	2.58E-05	0.00E+00	5.02E-04	2.58E-05	0.00E+00	1.50E-04	4.63E-06	0.00E+00	5.70E-05	1.50E-06	0.00E+00
5386	457069.5	3768462	0.000511	2.62E-05	0.00E+00	5.11E-04	2.62E-05	0.00E+00	1.53E-04	4.71E-06	0.00E+00	5.80E-05	1.52E-06	0.00E+00
5387	457065.7	3768453	0.00052	2.66E-05	0.00E+00	5.20E-04	2.66E-05	0.00E+00	1.56E-04	4.79E-06	0.00E+00	5.90E-05	1.55E-06	0.00E+00
5388	457046.5	3768408	0.000566	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.70E-04	5.22E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
5389	457042.7	3768399	0.000576	2.95E-05	0.00E+00	5.76E-04	2.95E-05	0.00E+00	1.72E-04	5.31E-06	0.00E+00	6.53E-05	1.71E-06	0.00E+00
5390	457038.9	3768390	0.000586	3.00E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.75E-04	5.40E-06	0.00E+00	6.65E-05	1.74E-06	0.00E+00
5391	457035	3768381	0.000596	3.06E-05	0.00E+00	5.96E-04	3.06E-05	0.00E+00	1.78E-04	5.49E-06	0.00E+00	6.76E-05	1.77E-06	0.00E+00
5392	457031.2	3768371	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.82E-04	5.59E-06	0.00E+00	6.88E-05	1.80E-06	0.00E+00
5393	457027.4	3768362	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.68E-06	0.00E+00	6.99E-05	1.83E-06	0.00E+00
5394	457023.5	3768353	0.000627	3.21E-05	0.00E+00	6.27E-04	3.21E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.11E-05	1.87E-06	0.00E+00
5395	457019.7	3768344	0.000638	3.27E-05	0.00E+00	6.38E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.23E-05	1.90E-06	0.00E+00
5396	457015.9	3768335	0.000649	3.33E-05	0.00E+00	6.49E-04	3.33E-05	0.00E+00	1.94E-04	5.98E-06	0.00E+00	7.36E-05	1.93E-06	0.00E+00
5397	457012	3768326	0.00066	3.38E-05	0.00E+00	6.60E-04	3.38E-05	0.00E+00	1.98E-04	6.08E-06	0.00E+00	7.49E-05	1.96E-06	0.00E+00
5398	457008.2	3768317	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.61E-05	2.00E-06	0.00E+00
5399	457004.4	3768308	0.000682	3.50E-05	0.00E+00	6.82E-04	3.50E-05	0.00E+00	2.04E-04	6.29E-06	0.00E+00	7.74E-05	2.03E-06	0.00E+00
5400	457000.5	3768299	0.000694	3.56E-05	0.00E+00	6.94E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.87E-05	2.06E-06	0.00E+00
5401	456996.7	3768289	0.000705	3.62E-05	0.00E+00	7.05E-04	3.62E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
5402	456992.9	3768280	0.000717	3.68E-05	0.00E+00	7.17E-04	3.68E-05	0.00E+00	2.15E-04	6.61E-06	0.00E+00	8.14E-05	2.13E-06	0.00E+00
5403	456989	3768271	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
5404	456985.2	3768262	0.000741	3.80E-05	0.00E+00	7.41E-04	3.80E-05	0.00E+00	2.22E-04	6.83E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
5405	456981.4	3768253	0.000753	3.86E-05	0.00E+00	7.53E-04	3.86E-05	0.00E+00	2.26E-04	6.94E-06	0.00E+00	8.55E-05	2.24E-06	0.00E+00
5406	456977.5	3768244	0.000765	3.92E-05	0.00E+00	7.65E-04	3.92E-05	0.00E+00	2.29E-04	7.05E-06	0.00E+00	8.68E-05	2.28E-06	0.00E+00
5407	457333.8	3768582	0.000576	2.95E-05	0.00E+00	5.76E-04	2.95E-05	0.00E+00	1.73E-04	5.31E-06	0.00E+00	6.54E-05	1.71E-06	0.00E+00
5408	457343.8	3768582	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.66E-05	1.75E-06	0.00E+00
5409	457353.8	3768582	0.000598	3.06E-05	0.00E+00	5.98E-04	3.06E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.78E-05	1.78E-06	0.00E+00
5410	457363.7	3768582	0.000609	3.12E-05	0.00E+00	6.09E-04	3.12E-05	0.00E+00	1.82E-04	5.61E-06	0.00E+00	6.91E-05	1.81E-06	0.00E+00
5411	457373.7	3768582	0.000621	3.18E-05	0.00E+00	6.21E-04	3.18E-05	0.00E+00	1.86E-04	5.72E-06	0.00E+00	7.05E-05	1.85E-06	0.00E+00
5412	457383.7	3768582	0.000634	3.25E-05	0.00E+00	6.34E-04	3.25E-05	0.00E+00	1.90E-04	5.84E-06	0.00E+00	7.19E-05	1.89E-06	0.00E+00
5413	457393.6	3768582	0.000647	3.31E-05	0.00E+00	6.47E-04	3.31E-05	0.00E+00	1.94E-04	5.96E-06	0.00E+00	7.34E-05	1.92E-06	0.00E+00
5414	457403.6	3768582	0.00066	3.38E-05	0.00E+00	6.60E-04	3.38E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.49E-05	1.96E-06	0.00E+00
5415	457413.6	3768582	0.000674	3.46E-05	0.00E+00	6.74E-04	3.46E-05	0.00E+00	2.02E-04	6.22E-06	0.00E+00	7.65E-05	2.01E-06	0.00E+00
5416	457423.5	3768582	0.00069	3.54E-05	0.00E+00	6.90E-04	3.54E-05	0.00E+00	2.07E-04	6.36E-06	0.00E+00	7.83E-05	2.05E-06	0.00E+00
5417	457433.5	3768582	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.11E-04	6.51E-06	0.00E+00	8.01E-05	2.10E-06	0.00E+00
5418	457443.5	3768582	0.000723	3.71E-05	0.00E+00	7.23E-04	3.71E-05	0.00E+00	2.17E-04	6.67E-06	0.00E+00	8.21E-05	2.15E-06	0.00E+00
5419	457453.5	3768582	0.000742	3.80E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.41E-05	2.21E-06	0.00E+00
5420	457463.4	3768582	0.000761	3.90E-05	0.00E+00	7.61E-04	3.90E-05	0.00E+00	2.28E-04	7.02E-06	0.00E+00	8.63E-05	2.26E-06	0.00E+00
5421	457473.4	3768582	0.000782	4.01E-05	0.00E+00	7.82E-04	4.01E-05	0.00E+00	2.34E-04	7.20E-06	0.00E+00	8.87E-05	2.33E-06	0.00E+00
5422	457483.4	3768582	0.000803	4.12E-05	0.00E+00	8.03E-04	4.12E-05	0.00E+00	2.41E-04	7.40E-06	0.00E+00	9.11E-05	2.39E-06	0.00E+00
5423	457493.3	3768582	0.000826	4.23E-05	0.00E+00	8.26E-04	4.23E-05	0.00E+00	2.47E-04	7.61E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
5424	457503.3	3768582	0.00085	4.36E-05	0.00E+00	8.50E-04	4.36E-05	0.00E+00	2.55E-04	7.83E-06	0.00E+00	9.64E-05	2.53E-06	0.00E+00
5425	457513.3	3768582	0.000819	4.20E-05	0.00E+00	8.19E-04	4.20E-05	0.00E+00	2.45E-04	7.55E-06	0.00E+00	9.30E-05	2.44E-06	0.00E+00
5426	457523.2	3768582	0.000838	4.30E-05	0.00E+00	8.38E-04	4.30E-05	0.00E+00	2.51E-04	7.73E-06	0.00E+00	9.51E-05	2.50E-06	0.00E+00
5427	457533.2	3768582	0.000858	4.40E-05	0.00E+00	8.58E-04	4.40E-05	0.00E+00	2.57E-04	7.91E-06	0.00E+00	9.74E-05	2.55E-06	0.00E+00
5428	457543.2	3768582	0.00088	4.51E-05	0.00E+00	8.80E-04	4.51E-05	0.00E+00	2.64E-04	8.11E-06	0.00E+00	9.99E-05	2.62E-06	0.00E+00
5429	457553.2	3768582	0.000905	4.64E-05	0.00E+00	9.05E-04	4.64E-05	0.00E+00	2.71E-04	8.34E-06	0.00E+00	1.03E-04	2.69E-06	0.00E+00
5430	457563.1	3768582	0.000931	4.77E-05	0.00E+00	9.31E-04	4.77E-05	0.00E+00	2.79E-04	8.58E-06	0.00E+00	1.06E-04	2.77E-06	0.00E+00
5431	457573.1	3768582	0.000958	4.91E-05	0.00E+00	9.58E-04	4.91E-05	0.00E+00	2.87E-04	8.83E-06	0.00E+00	1.09E-04	2.85E-06	0.00E+00
5432	457583.1	3768582	0.000987	5.06E-05	0.00E+00	9.87E-04	5.06E-05	0.00E+00	2.96E-04	9.10E-06	0.00E+00	1.12E-04	2.94E-06	0.00E+00
5433	457593	3768582	0.001017	5.21E-05	0.00E+00	1.02E-03	5.21E-05	0.00E+00	3.05E-04	9.38E-06	0.00E+00	1.15E-04	3.03E-06	0.00E+00
5434	457603	3768582	0.001048	5.37E-05	0.00E+00	1.05E-03	5.37E-05	0.00E+00	3.14E-04	9.66E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
5435	457613	3768582	0.001081	5.54E-05	0.00E+00	1.08E-03	5.54E-05	0.00E+00	3.24E-04	9.96E-06	0.00E+00	1.23E-04	3.22E-06	0.00E+00
5436	457622.9	3768582	0.001114	5.71E-05	0.00E+00	1.11E-03	5.71E-05	0.00E+00	3.34E-04	1.03E-05	0.00E+00	1.26E-04	3.31E-06	0.00E+00
5437	457632.9	3768582	0.001146	5.88E-05	0.00E+00	1.15E-03	5.88E-05	0.00E+00	3.43E-04	1.06E-05	0.00E+00	1.30E-04	3.41E-06	0.00E+00
5438	457642.9	3768582	0.001176	6.03E-05	0.00E+00	1.18E-03	6.03E-05	0.00E+00	3.52E-04	1.08E-05	0.00E+00	1.33E-04	3.50E-06	0.00E+00
5439	457652.9	3768582	0.001207	6.19E-05	0.00E+00	1.21E-03	6.19E-05	0.00E+00	3.61E-04	1.11E-05	0.00E+00	1.37E-04	3.59E-06	0.00E+00
5440	457662.8	3768582	0.001239	6.35E-05	0.00E+00	1.24E-03	6.35E-05	0.00E+00	3.71E-04	1.14E-05	0.00E+00	1.41E-04	3.69E-06	0.00E+00
5441	457672.8	3768582	0.001275	6.54E-05	0.00E+00	1.27E-03	6.54E-05	0.00E+00	3.82E-04	1.18E-05	0.00E+00	1.45E-04	3.79E-06	0.00E+00
5442	457682.8	3768582	0.001311	6.72E-05	0.00E+00	1.31E-03	6.72E-05	0.00E+00	3.93E-04	1.21E-05	0.00E+00	1.49E-04	3.90E-06	0.00E+00
5443	457692.7	3768582	0.001349	6.92E-05	0.00E+00	1.35E-03	6.92E-05	0.00E+00	4.04E-04	1.24E-05	0.00E+00	1.53E-04	4.01E-06	0.00E+00
5444	457702.7	3768582	0.001387	7.11E-05	0.00E+00	1.39E-03	7.11E-05	0.00E+00	4.16E-04	1.28E-05	0.00E+00	1.57E-04	4.13E-06	0.00E+00
5445	457296.5	3768596	0.000516	2.65E-05	0.00E+00	5.16E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
5446	457287.4	3768592	0.000515	2.64E-05	0.00E+00	5.15E-04	2.64E-05	0.00E+00	1.54E-04	4.75E-06	0.00E+00	5.85E-05	1.53E-06	0.00E+00
5447	457278.3	3768588	0.000514	2.64E-05	0.00E+00	5.14E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
5448	457269.2	3768585	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.73E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
5449	457260.1	3768581	0.000512	2.62E-05	0.00E+00	5.12E-04	2.62E-05	0.00E+00	1.53E-04	4.72E-06	0.00E+00	5.81E-05	1.52E-06	0.00E+00
5450	457251	3768577	0.00051	2.62E-05	0.00E+00	5.10E-04	2.62E-05	0.00E+00	1.53E-04	4.71E-06	0.00E+00	5.79E-05	1.52E-06	0.00E+00
5451	457241.8	3768573	0.000509	2.61E-05	0.00E+00	5.09E-04	2.61E-05	0.00E+00	1.52E-04	4.69E-06	0.00E+00	5.78E-05	1.51E-06	0.00E+00
5452	457232.7	3768570	0.000508	2.60E-05	0.00E+00	5.08E-04	2.60E-05	0.00E+00	1.52E-04	4.68E-06	0.00E+00	5.76E-05	1.51E-06	0.00E+00
5453	457223.6	3768566	0.000506	2.59E-05	0.00E+00	5.06E-04	2.59E-05	0.00E+00	1.51E-04	4.66E-06	0.00E+00	5.74E-05	1.51E-06	0.00E+00
5454	457214.5	3768562	0.000504	2.58E-05	0.00E+00	5.04E-04	2.58E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.72E-05	1.50E-06	0.00E+00
5455	457205.4	3768558	0.000502	2.57E-05	0.00E+00	5.02E-04	2.57E-05	0.00E+00	1.50E-04	4.63E-06	0.00E+00	5.70E-05	1.49E-06	0.00E+00
5456	457196.3	3768555	0.0005	2.56E-05	0.00E+00	5.00E-04	2.56E-05	0.00E+00	1.50E-04	4.61E-06	0.00E+00	5.67E-05	1.49E-06	0.00E+00
5457	457187.2	3768551	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
5458	457178.1	3768547	0.000495	2.54E-05	0.00E+00	4.95E-04	2.54E-05	0.00E+00	1.48E-04	4.57E-06	0.00E+00	5.62E-05	1.47E-06	0.00E+00
5459	457168.9	3768543	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
5460	457159.8	3768540	0.00049	2.51E-05	0.00E+00	4.90E-04	2.51E-05	0.00E+00	1.47E-04	4.52E-06	0.00E+00	5.56E-05	1.46E-06	0.00E+00
5461	457150.7	3768536	0.000488	2.50E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.53E-05	1.45E-06	0.00E+00
5462	457141.6	3768532	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
5463	457132.5	3768528	0.000482	2.47E-05	0.00E+00	4.82E-04	2.47E-05	0.00E+00	1.44E-04	4.44E-06	0.00E+00	5.47E-05	1.43E-06	0.00E+00
5464	457123.4	3768525	0.000479	2.45E-05	0.00E+00	4.79E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
5465	457114.3	3768521	0.000476	2.44E-05	0.00E+00	4.76E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.40E-05	1.42E-06	0.00E+00
5466	457105.2	3768517	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.41E-06	0.00E+00
5467	457096	3768513	0.000469	2.40E-05	0.00E+00	4.69E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.32E-05	1.40E-06	0.00E+00
5468	457086.9	3768510	0.000465	2.39E-05	0.00E+00	4.65E-04	2.39E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.39E-06	0.00E+00
5469	457077.8	3768506	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00

5470	457068.7	3768502	0.000458	2.35E-05	0.00E+00	4.58E-04	2.35E-05	0.00E+00	1.37E-04	4.22E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
5471	457055.8	3768489	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00
5472	457052	3768480	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
5473	457048.1	3768471	0.000477	2.45E-05	0.00E+00	4.77E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
5474	457044.3	3768462	0.000485	2.49E-05	0.00E+00	4.85E-04	2.49E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
5475	457040.5	3768453	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
5476	457021.4	3768408	0.000534	2.74E-05	0.00E+00	5.34E-04	2.74E-05	0.00E+00	1.60E-04	4.92E-06	0.00E+00	6.06E-05	1.59E-06	0.00E+00
5477	457017.5	3768399	0.000543	2.78E-05	0.00E+00	5.43E-04	2.78E-05	0.00E+00	1.63E-04	5.00E-06	0.00E+00	6.16E-05	1.62E-06	0.00E+00
5478	457013.7	3768389	0.000552	2.83E-05	0.00E+00	5.52E-04	2.83E-05	0.00E+00	1.65E-04	5.09E-06	0.00E+00	6.26E-05	1.64E-06	0.00E+00
5479	457009.9	3768380	0.000561	2.87E-05	0.00E+00	5.61E-04	2.87E-05	0.00E+00	1.68E-04	5.17E-06	0.00E+00	6.36E-05	1.67E-06	0.00E+00
5480	457006.1	3768371	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.70E-06	0.00E+00
5481	457002.2	3768362	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
5482	456998.4	3768353	0.000588	3.02E-05	0.00E+00	5.88E-04	3.02E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
5483	456994.6	3768344	0.000598	3.06E-05	0.00E+00	5.98E-04	3.06E-05	0.00E+00	1.79E-04	5.51E-06	0.00E+00	6.78E-05	1.78E-06	0.00E+00
5484	456990.8	3768335	0.000608	3.11E-05	0.00E+00	6.08E-04	3.11E-05	0.00E+00	1.82E-04	5.60E-06	0.00E+00	6.89E-05	1.81E-06	0.00E+00
5485	456986.9	3768326	0.000617	3.16E-05	0.00E+00	6.17E-04	3.16E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.00E-05	1.84E-06	0.00E+00
5486	456983.1	3768317	0.000627	3.22E-05	0.00E+00	6.27E-04	3.22E-05	0.00E+00	1.88E-04	5.78E-06	0.00E+00	7.12E-05	1.87E-06	0.00E+00
5487	456979.3	3768308	0.000637	3.27E-05	0.00E+00	6.37E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.23E-05	1.90E-06	0.00E+00
5488	456975.5	3768299	0.000647	3.32E-05	0.00E+00	6.47E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
5489	456971.6	3768290	0.000658	3.37E-05	0.00E+00	6.58E-04	3.37E-05	0.00E+00	1.97E-04	6.06E-06	0.00E+00	7.46E-05	1.96E-06	0.00E+00
5490	456967.8	3768280	0.000668	3.42E-05	0.00E+00	6.68E-04	3.42E-05	0.00E+00	2.00E-04	6.16E-06	0.00E+00	7.58E-05	1.99E-06	0.00E+00
5491	456964	3768271	0.000679	3.48E-05	0.00E+00	6.79E-04	3.48E-05	0.00E+00	2.03E-04	6.25E-06	0.00E+00	7.70E-05	2.02E-06	0.00E+00
5492	456960.2	3768262	0.000689	3.53E-05	0.00E+00	6.89E-04	3.53E-05	0.00E+00	2.06E-04	6.35E-06	0.00E+00	7.82E-05	2.05E-06	0.00E+00
5493	456956.3	3768253	0.0007	3.59E-05	0.00E+00	7.00E-04	3.59E-05	0.00E+00	2.10E-04	6.45E-06	0.00E+00	7.94E-05	2.08E-06	0.00E+00
5494	456952.5	3768244	0.00071	3.64E-05	0.00E+00	7.10E-04	3.64E-05	0.00E+00	2.13E-04	6.55E-06	0.00E+00	8.06E-05	2.11E-06	0.00E+00
5495	457333.8	3768607	0.000529	2.71E-05	0.00E+00	5.29E-04	2.71E-05	0.00E+00	1.58E-04	4.87E-06	0.00E+00	6.00E-05	1.57E-06	0.00E+00
5496	457343.8	3768607	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
5497	457353.8	3768607	0.000546	2.80E-05	0.00E+00	5.46E-04	2.80E-05	0.00E+00	1.64E-04	5.04E-06	0.00E+00	6.20E-05	1.63E-06	0.00E+00
5498	457363.7	3768607	0.000556	2.85E-05	0.00E+00	5.56E-04	2.85E-05	0.00E+00	1.66E-04	5.12E-06	0.00E+00	6.31E-05	1.65E-06	0.00E+00
5499	457373.7	3768607	0.000566	2.90E-05	0.00E+00	5.66E-04	2.90E-05	0.00E+00	1.69E-04	5.22E-06	0.00E+00	6.42E-05	1.68E-06	0.00E+00
5500	457383.7	3768607	0.000576	2.96E-05	0.00E+00	5.76E-04	2.96E-05	0.00E+00	1.73E-04	5.31E-06	0.00E+00	6.54E-05	1.72E-06	0.00E+00
5501	457393.6	3768607	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
5502	457403.6	3768607	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
5503	457413.6	3768607	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.63E-06	0.00E+00	6.93E-05	1.82E-06	0.00E+00
5504	457423.6	3768607	0.000624	3.20E-05	0.00E+00	6.24E-04	3.20E-05	0.00E+00	1.87E-04	5.75E-06	0.00E+00	7.08E-05	1.86E-06	0.00E+00
5505	457433.5	3768607	0.000638	3.27E-05	0.00E+00	6.38E-04	3.27E-05	0.00E+00	1.91E-04	5.88E-06	0.00E+00	7.24E-05	1.90E-06	0.00E+00
5506	457443.5	3768607	0.000652	3.34E-05	0.00E+00	6.52E-04	3.34E-05	0.00E+00	1.95E-04	6.01E-06	0.00E+00	7.40E-05	1.94E-06	0.00E+00
5507	457453.5	3768607	0.000668	3.42E-05	0.00E+00	6.68E-04	3.42E-05	0.00E+00	2.00E-04	6.15E-06	0.00E+00	7.57E-05	1.99E-06	0.00E+00
5508	457463.4	3768607	0.000684	3.50E-05	0.00E+00	6.84E-04	3.50E-05	0.00E+00	2.05E-04	6.30E-06	0.00E+00	7.76E-05	2.03E-06	0.00E+00
5509	457473.4	3768607	0.000701	3.59E-05	0.00E+00	7.01E-04	3.59E-05	0.00E+00	2.10E-04	6.46E-06	0.00E+00	7.95E-05	2.08E-06	0.00E+00
5510	457483.4	3768607	0.000681	3.49E-05	0.00E+00	6.81E-04	3.49E-05	0.00E+00	2.04E-04	6.28E-06	0.00E+00	7.72E-05	2.03E-06	0.00E+00
5511	457493.3	3768607	0.000695	3.56E-05	0.00E+00	6.95E-04	3.56E-05	0.00E+00	2.08E-04	6.40E-06	0.00E+00	7.88E-05	2.07E-06	0.00E+00
5512	457503.3	3768607	0.000709	3.64E-05	0.00E+00	7.09E-04	3.64E-05	0.00E+00	2.12E-04	6.54E-06	0.00E+00	8.05E-05	2.11E-06	0.00E+00
5513	457513.3	3768607	0.000725	3.72E-05	0.00E+00	7.25E-04	3.72E-05	0.00E+00	2.17E-04	6.68E-06	0.00E+00	8.23E-05	2.16E-06	0.00E+00
5514	457523.3	3768607	0.000742	3.80E-05	0.00E+00	7.42E-04	3.80E-05	0.00E+00	2.22E-04	6.84E-06	0.00E+00	8.42E-05	2.21E-06	0.00E+00
5515	457533.2	3768607	0.00076	3.90E-05	0.00E+00	7.60E-04	3.90E-05	0.00E+00	2.28E-04	7.01E-06	0.00E+00	8.62E-05	2.26E-06	0.00E+00
5516	457543.2	3768607	0.000779	4.00E-05	0.00E+00	7.79E-04	4.00E-05	0.00E+00	2.33E-04	7.18E-06	0.00E+00	8.84E-05	2.32E-06	0.00E+00
5517	457553.2	3768607	0.0008	4.10E-05	0.00E+00	8.00E-04	4.10E-05	0.00E+00	2.40E-04	7.38E-06	0.00E+00	9.08E-05	2.38E-06	0.00E+00
5518	457563.1	3768607	0.000822	4.22E-05	0.00E+00	8.22E-04	4.22E-05	0.00E+00	2.46E-04	7.58E-06	0.00E+00	9.33E-05	2.45E-06	0.00E+00
5519	457573.1	3768607	0.000844	4.33E-05	0.00E+00	8.44E-04	4.33E-05	0.00E+00	2.53E-04	7.78E-06	0.00E+00	9.58E-05	2.51E-06	0.00E+00
5520	457583.1	3768607	0.000865	4.44E-05	0.00E+00	8.65E-04	4.44E-05	0.00E+00	2.59E-04	7.98E-06	0.00E+00	9.82E-05	2.57E-06	0.00E+00
5521	457593.1	3768607	0.000887	4.55E-05	0.00E+00	8.87E-04	4.55E-05	0.00E+00	2.66E-04	8.18E-06	0.00E+00	1.01E-04	2.64E-06	0.00E+00
5522	457603	3768607	0.000911	4.67E-05	0.00E+00	9.11E-04	4.67E-05	0.00E+00	2.73E-04	8.39E-06	0.00E+00	1.03E-04	2.71E-06	0.00E+00
5523	457613	3768607	0.000937	4.80E-05	0.00E+00	9.37E-04	4.80E-05	0.00E+00	2.81E-04	8.64E-06	0.00E+00	1.06E-04	2.79E-06	0.00E+00
5524	457623	3768607	0.000964	4.94E-05	0.00E+00	9.64E-04	4.94E-05	0.00E+00	2.89E-04	8.89E-06	0.00E+00	1.09E-04	2.87E-06	0.00E+00
5525	457632.9	3768607	0.000992	5.09E-05	0.00E+00	9.92E-04	5.09E-05	0.00E+00	2.97E-04	9.15E-06	0.00E+00	1.13E-04	2.95E-06	0.00E+00
5526	457642.9	3768607	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.05E-04	9.40E-06	0.00E+00	1.16E-04	3.03E-06	0.00E+00
5527	457652.9	3768607	0.001048	5.37E-05	0.00E+00	1.05E-03	5.37E-05	0.00E+00	3.14E-04	9.66E-06	0.00E+00	1.19E-04	3.12E-06	0.00E+00
5528	457662.8	3768607	0.001078	5.53E-05	0.00E+00	1.08E-03	5.53E-05	0.00E+00	3.23E-04	9.93E-06	0.00E+00	1.22E-04	3.21E-06	0.00E+00
5529	457672.8	3768607	0.001109	5.69E-05	0.00E+00	1.11E-03	5.69E-05	0.00E+00	3.32E-04	1.02E-05	0.00E+00	1.26E-04	3.30E-06	0.00E+00
5530	457682.8	3768607	0.001141	5.85E-05	0.00E+00	1.14E-03	5.85E-05	0.00E+00	3.42E-04	1.05E-05	0.00E+00	1.29E-04	3.40E-06	0.00E+00
5531	457692.8	3768607	0.001173	6.01E-05	0.00E+00	1.17E-03	6.01E-05	0.00E+00	3.51E-04	1.08E-05	0.00E+00	1.33E-04	3.49E-06	0.00E+00
5532	457702.7	3768607	0.001202	6.16E-05	0.00E+00	1.20E-03	6.16E-05	0.00E+00	3.60E-04	1.11E-05	0.00E+00	1.36E-04	3.58E-06	0.00E+00
5533	457296.6	3768621	0.000477	2.44E-05	0.00E+00	4.77E-04	2.44E-05	0.00E+00	1.43E-04	4.39E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
5534	457287.5	3768617	0.000476	2.44E-05	0.00E+00	4.76E-04	2.44E-05	0.00E+00	1.43E-04	4.39E-06	0.00E+00	5.40E-05	1.42E-06	0.00E+00
5535	457278.4	3768613	0.000475	2.43E-05	0.00E+00	4.75E-04	2.43E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.39E-05	1.41E-06	0.00E+00
5536	457269.3	3768610	0.000474	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
5537	457260.2	3768606	0.000473	2.43E-05	0.00E+00	4.73E-04	2.43E-05	0.00E+00	1.42E-04	4.36E-06	0.00E+00	5.37E-05	1.41E-06	0.00E+00
5538	457251.1	3768602	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.36E-05	1.40E-06	0.00E+00
5539	457242	3768598	0.000471	2.41E-05	0.00E+00	4.71E-04	2.41E-05	0.00E+00	1.41E-04	4.34E-06	0.00E+00	5.34E-05	1.40E-06	0.00E+00
5540	457232.9	3768595	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
5541	457223.8	3768591	0.000469	2.40E-05	0.00E+00	4.69E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.32E-05	1.39E-06	0.00E+00
5542	457214.8	3768587	0.000467	2.40E-05	0.00E+00	4.67E-04	2.40E-05	0.00E+00	1.40E-04	4.31E-06	0.00E+00	5.30E-05	1.39E-06	0.00E+00
5543	457205.7	3768584	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.40E-04	4.29E-06	0.00E+00	5.29E-05	1.39E-06	0.00E+00
5544	457196.6	3768580	0.000464	2.38E-05	0.00E+00	4.64E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.27E-05	1.38E-06	0.00E+00
5545	457187.5	3768576	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.39E-04	4.26E-06	0.00E+00	5.25E-05	1.38E-06	0.00E+00
5546	457178.4	3768572	0.000461	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
5547	457169.3	3768569	0.000459	2.35E-05	0.00E+00	4.59E-04	2.35E-05	0.00E+00	1.37E-04	4.23E-06	0.00E+00	5.20E-05	1.36E-06	0.00E+00
5548	457160.2	3768565	0.000457	2.34E-05	0.00E+00	4.57E-04	2.34E-05	0.00E+00	1.37E-04	4.21E-06	0.00E+00	5.18E-05	1.36E-06	0.00E+00
5549	457151.1	3768561	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
5550	457142	3768557	0.000452	2.32E-05	0.00E+00	4.52E-04	2.32E-05	0.00E+00	1.35E-04	4.17E-06	0.00E+00	5.13E-05	1.35E-06	0.00E+00
5551	457132.9	3768554	0.00045	2.31E-05	0.00E+00	4.50E-04	2.31E-05	0.00E+00	1.35E-04	4.15E-06	0.00E+00	5.10E-05	1.34E-06	0.00E+00
5552	457123.8	3768550	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.07E-05	1.33E-06	0.00E+00
5553	457114.7	3768546	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.04E-05	1.32E-06	0.00E+00
5554	457105.6	3768542	0.000442	2.27E-05	0.00E+00	4.42E-04	2.27E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
5555	457096.5	3768539	0.000439	2.25E-05	0.00E+00	4.39E-04	2.25E-05	0.00E+00	1.31E-04	4.05E-06	0.00E+00	4.98E-05	1.31E-06	0.00E+00
5556	457087.5	3768535	0.000436	2.24E-05	0.00E+00	4.36E-04	2.24E-05	0.00E+00	1.31E-04	4.02E-06	0.00E+00	4.95E-05	1.30E-06	0.00E+00
5557	457078.4	3768531	0.000433	2.22E-05	0.00E+00	4.33E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.91E-05	1.29E-06	0.00E+00
5558	457069.3	3768527	0.00043	2.20E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
5559	457060.2	3768524	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.94E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
5560	457051.1	3768520	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
5561	457038.2	3768507	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.93E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
5562	457034.4	3768498	0.000433	2.22E-05	0.00E+00	4.33E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.92E-05	1.29E-06	0.00E+00
5563	457030.5	3768489	0.00044	2.26E-05	0.00E+00	4.40E-04	2.26E-05	0.00E+00	1.32E-04	4.06E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
5564	457026.7	3768480	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.07E-05	1.33E-06	0.00E+00
5565	457022.9	3768471	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.18E-06	0.00E+00	5.15E-05	1.35E-06	0.00E+00

5566	457019.1	3768462	0.000461	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
5567	457015.3	3768453	0.000468	2.40E-05	0.00E+00	4.68E-04	2.40E-05	0.00E+00	1.40E-04	4.31E-06	0.00E+00	5.31E-05	1.39E-06	0.00E+00
5568	456996.2	3768407	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
5569	456992.4	3768398	0.000513	2.63E-05	0.00E+00	5.13E-04	2.63E-05	0.00E+00	1.54E-04	4.72E-06	0.00E+00	5.82E-05	1.53E-06	0.00E+00
5570	456988.6	3768389	0.00052	2.67E-05	0.00E+00	5.20E-04	2.67E-05	0.00E+00	1.56E-04	4.80E-06	0.00E+00	5.90E-05	1.55E-06	0.00E+00
5571	456984.8	3768380	0.000528	2.71E-05	0.00E+00	5.28E-04	2.71E-05	0.00E+00	1.58E-04	4.87E-06	0.00E+00	6.00E-05	1.57E-06	0.00E+00
5572	456980.9	3768371	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
5573	456977.1	3768362	0.000545	2.79E-05	0.00E+00	5.45E-04	2.79E-05	0.00E+00	1.63E-04	5.02E-06	0.00E+00	6.18E-05	1.62E-06	0.00E+00
5574	456973.3	3768353	0.000553	2.84E-05	0.00E+00	5.53E-04	2.84E-05	0.00E+00	1.66E-04	5.10E-06	0.00E+00	6.28E-05	1.65E-06	0.00E+00
5575	456969.5	3768344	0.000562	2.88E-05	0.00E+00	5.62E-04	2.88E-05	0.00E+00	1.68E-04	5.18E-06	0.00E+00	6.37E-05	1.67E-06	0.00E+00
5576	456965.7	3768335	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
5577	456961.9	3768326	0.000579	2.97E-05	0.00E+00	5.79E-04	2.97E-05	0.00E+00	1.73E-04	5.34E-06	0.00E+00	6.57E-05	1.72E-06	0.00E+00
5578	456958	3768317	0.000588	3.01E-05	0.00E+00	5.88E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
5579	456954.2	3768308	0.000597	3.06E-05	0.00E+00	5.97E-04	3.06E-05	0.00E+00	1.79E-04	5.50E-06	0.00E+00	6.77E-05	1.78E-06	0.00E+00
5580	456950.4	3768299	0.000606	3.11E-05	0.00E+00	6.06E-04	3.11E-05	0.00E+00	1.81E-04	5.58E-06	0.00E+00	6.87E-05	1.80E-06	0.00E+00
5581	456946.6	3768290	0.000615	3.15E-05	0.00E+00	6.15E-04	3.15E-05	0.00E+00	1.84E-04	5.67E-06	0.00E+00	6.98E-05	1.83E-06	0.00E+00
5582	456942.8	3768281	0.000624	3.20E-05	0.00E+00	6.24E-04	3.20E-05	0.00E+00	1.87E-04	5.75E-06	0.00E+00	7.08E-05	1.86E-06	0.00E+00
5583	456939	3768271	0.000633	3.25E-05	0.00E+00	6.33E-04	3.25E-05	0.00E+00	1.90E-04	5.84E-06	0.00E+00	7.19E-05	1.88E-06	0.00E+00
5584	456935.1	3768262	0.000643	3.29E-05	0.00E+00	6.43E-04	3.29E-05	0.00E+00	1.92E-04	5.92E-06	0.00E+00	7.29E-05	1.91E-06	0.00E+00
5585	456931.3	3768253	0.000652	3.34E-05	0.00E+00	6.52E-04	3.34E-05	0.00E+00	1.95E-04	6.01E-06	0.00E+00	7.40E-05	1.94E-06	0.00E+00
5586	456927.5	3768244	0.000661	3.39E-05	0.00E+00	6.61E-04	3.39E-05	0.00E+00	1.98E-04	6.09E-06	0.00E+00	7.50E-05	1.97E-06	0.00E+00
5587	457333.8	3768632	0.000486	2.49E-05	0.00E+00	4.86E-04	2.49E-05	0.00E+00	1.46E-04	4.48E-06	0.00E+00	5.52E-05	1.45E-06	0.00E+00
5588	457343.8	3768632	0.000494	2.53E-05	0.00E+00	4.94E-04	2.53E-05	0.00E+00	1.48E-04	4.55E-06	0.00E+00	5.60E-05	1.47E-06	0.00E+00
5589	457353.8	3768632	0.000502	2.57E-05	0.00E+00	5.02E-04	2.57E-05	0.00E+00	1.50E-04	4.62E-06	0.00E+00	5.69E-05	1.49E-06	0.00E+00
5590	457363.7	3768632	0.00051	2.61E-05	0.00E+00	5.10E-04	2.61E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.78E-05	1.52E-06	0.00E+00
5591	457373.7	3768632	0.000518	2.66E-05	0.00E+00	5.18E-04	2.66E-05	0.00E+00	1.55E-04	4.78E-06	0.00E+00	5.88E-05	1.54E-06	0.00E+00
5592	457383.7	3768632	0.000527	2.70E-05	0.00E+00	5.27E-04	2.70E-05	0.00E+00	1.58E-04	4.86E-06	0.00E+00	5.98E-05	1.57E-06	0.00E+00
5593	457393.7	3768632	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
5594	457403.6	3768632	0.000547	2.80E-05	0.00E+00	5.47E-04	2.80E-05	0.00E+00	1.64E-04	5.04E-06	0.00E+00	6.20E-05	1.63E-06	0.00E+00
5595	457413.6	3768632	0.000557	2.86E-05	0.00E+00	5.57E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.32E-05	1.66E-06	0.00E+00
5596	457423.6	3768632	0.000549	2.81E-05	0.00E+00	5.49E-04	2.81E-05	0.00E+00	1.64E-04	5.06E-06	0.00E+00	6.22E-05	1.63E-06	0.00E+00
5597	457433.5	3768632	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
5598	457443.5	3768632	0.000567	2.91E-05	0.00E+00	5.67E-04	2.91E-05	0.00E+00	1.70E-04	5.23E-06	0.00E+00	6.43E-05	1.69E-06	0.00E+00
5599	457453.5	3768632	0.000577	2.96E-05	0.00E+00	5.77E-04	2.96E-05	0.00E+00	1.73E-04	5.32E-06	0.00E+00	6.55E-05	1.72E-06	0.00E+00
5600	457463.4	3768632	0.000588	3.01E-05	0.00E+00	5.88E-04	3.01E-05	0.00E+00	1.76E-04	5.42E-06	0.00E+00	6.67E-05	1.75E-06	0.00E+00
5601	457473.4	3768632	0.0006	3.08E-05	0.00E+00	6.00E-04	3.08E-05	0.00E+00	1.80E-04	5.53E-06	0.00E+00	6.81E-05	1.78E-06	0.00E+00
5602	457483.4	3768632	0.000612	3.14E-05	0.00E+00	6.12E-04	3.14E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
5603	457493.4	3768632	0.000624	3.20E-05	0.00E+00	6.24E-04	3.20E-05	0.00E+00	1.87E-04	5.75E-06	0.00E+00	7.08E-05	1.86E-06	0.00E+00
5604	457503.3	3768632	0.000636	3.26E-05	0.00E+00	6.36E-04	3.26E-05	0.00E+00	1.91E-04	5.87E-06	0.00E+00	7.22E-05	1.89E-06	0.00E+00
5605	457513.3	3768632	0.00065	3.33E-05	0.00E+00	6.50E-04	3.33E-05	0.00E+00	1.95E-04	5.99E-06	0.00E+00	7.37E-05	1.93E-06	0.00E+00
5606	457523.3	3768632	0.000665	3.41E-05	0.00E+00	6.65E-04	3.41E-05	0.00E+00	1.99E-04	6.13E-06	0.00E+00	7.54E-05	1.98E-06	0.00E+00
5607	457533.2	3768632	0.000681	3.49E-05	0.00E+00	6.81E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.72E-05	2.03E-06	0.00E+00
5608	457543.2	3768632	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
5609	457553.2	3768632	0.000712	3.65E-05	0.00E+00	7.12E-04	3.65E-05	0.00E+00	2.13E-04	6.57E-06	0.00E+00	8.08E-05	2.12E-06	0.00E+00
5610	457563.2	3768632	0.000729	3.74E-05	0.00E+00	7.29E-04	3.74E-05	0.00E+00	2.18E-04	6.72E-06	0.00E+00	8.27E-05	2.17E-06	0.00E+00
5611	457573.1	3768632	0.000746	3.82E-05	0.00E+00	7.46E-04	3.82E-05	0.00E+00	2.23E-04	6.88E-06	0.00E+00	8.46E-05	2.22E-06	0.00E+00
5612	457583.1	3768632	0.000764	3.92E-05	0.00E+00	7.64E-04	3.92E-05	0.00E+00	2.29E-04	7.04E-06	0.00E+00	8.67E-05	2.27E-06	0.00E+00
5613	457593.1	3768632	0.000783	4.01E-05	0.00E+00	7.83E-04	4.01E-05	0.00E+00	2.34E-04	7.21E-06	0.00E+00	8.88E-05	2.33E-06	0.00E+00
5614	457603	3768632	0.000803	4.11E-05	0.00E+00	8.03E-04	4.11E-05	0.00E+00	2.40E-04	7.40E-06	0.00E+00	9.11E-05	2.39E-06	0.00E+00
5615	457613	3768632	0.000825	4.23E-05	0.00E+00	8.25E-04	4.23E-05	0.00E+00	2.47E-04	7.60E-06	0.00E+00	9.35E-05	2.45E-06	0.00E+00
5616	457623	3768632	0.000847	4.34E-05	0.00E+00	8.47E-04	4.34E-05	0.00E+00	2.54E-04	7.81E-06	0.00E+00	9.61E-05	2.52E-06	0.00E+00
5617	457632.9	3768632	0.000871	4.47E-05	0.00E+00	8.71E-04	4.47E-05	0.00E+00	2.61E-04	8.03E-06	0.00E+00	9.88E-05	2.59E-06	0.00E+00
5618	457642.9	3768632	0.000896	4.59E-05	0.00E+00	8.96E-04	4.59E-05	0.00E+00	2.68E-04	8.26E-06	0.00E+00	1.02E-04	2.67E-06	0.00E+00
5619	457652.9	3768632	0.000921	4.72E-05	0.00E+00	9.21E-04	4.72E-05	0.00E+00	2.76E-04	8.49E-06	0.00E+00	1.04E-04	2.74E-06	0.00E+00
5620	457662.9	3768632	0.000946	4.85E-05	0.00E+00	9.46E-04	4.85E-05	0.00E+00	2.83E-04	8.72E-06	0.00E+00	1.07E-04	2.82E-06	0.00E+00
5621	457672.8	3768632	0.00097	4.97E-05	0.00E+00	9.70E-04	4.97E-05	0.00E+00	2.91E-04	8.94E-06	0.00E+00	1.10E-04	2.89E-06	0.00E+00
5622	457682.8	3768632	0.000995	5.10E-05	0.00E+00	9.95E-04	5.10E-05	0.00E+00	2.98E-04	9.17E-06	0.00E+00	1.13E-04	2.96E-06	0.00E+00
5623	457692.8	3768632	0.00102	5.23E-05	0.00E+00	1.02E-03	5.23E-05	0.00E+00	3.06E-04	9.40E-06	0.00E+00	1.16E-04	3.04E-06	0.00E+00
5624	457702.7	3768632	0.001046	5.36E-05	0.00E+00	1.05E-03	5.36E-05	0.00E+00	3.13E-04	9.64E-06	0.00E+00	1.19E-04	3.11E-06	0.00E+00
5625	457296.5	3768661	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.79E-05	1.26E-06	0.00E+00
5626	457287.4	3768657	0.000421	2.16E-05	0.00E+00	4.21E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
5627	457278.3	3768653	0.000421	2.16E-05	0.00E+00	4.21E-04	2.16E-05	0.00E+00	1.26E-04	3.88E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
5628	457269.2	3768650	0.000421	2.16E-05	0.00E+00	4.21E-04	2.16E-05	0.00E+00	1.26E-04	3.88E-06	0.00E+00	4.77E-05	1.25E-06	0.00E+00
5629	457260	3768646	0.00042	2.15E-05	0.00E+00	4.20E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.77E-05	1.25E-06	0.00E+00
5630	457250.9	3768642	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
5631	457241.8	3768638	0.000419	2.15E-05	0.00E+00	4.19E-04	2.15E-05	0.00E+00	1.25E-04	3.86E-06	0.00E+00	4.75E-05	1.25E-06	0.00E+00
5632	457232.7	3768635	0.000418	2.14E-05	0.00E+00	4.18E-04	2.14E-05	0.00E+00	1.25E-04	3.85E-06	0.00E+00	4.74E-05	1.24E-06	0.00E+00
5633	457223.6	3768631	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
5634	457214.5	3768627	0.000416	2.13E-05	0.00E+00	4.16E-04	2.13E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.72E-05	1.24E-06	0.00E+00
5635	457205.3	3768623	0.000415	2.13E-05	0.00E+00	4.15E-04	2.13E-05	0.00E+00	1.24E-04	3.83E-06	0.00E+00	4.71E-05	1.24E-06	0.00E+00
5636	457196.2	3768620	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.70E-05	1.23E-06	0.00E+00
5637	457187.1	3768616	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
5638	457178	3768612	0.000412	2.11E-05	0.00E+00	4.12E-04	2.11E-05	0.00E+00	1.23E-04	3.79E-06	0.00E+00	4.67E-05	1.23E-06	0.00E+00
5639	457168.9	3768608	0.00041	2.10E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.66E-05	1.22E-06	0.00E+00
5640	457159.7	3768605	0.000409	2.10E-05	0.00E+00	4.09E-04	2.10E-05	0.00E+00	1.22E-04	3.77E-06	0.00E+00	4.64E-05	1.22E-06	0.00E+00
5641	457150.6	3768601	0.000407	2.09E-05	0.00E+00	4.07E-04	2.09E-05	0.00E+00	1.22E-04	3.76E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
5642	457141.5	3768597	0.000406	2.08E-05	0.00E+00	4.06E-04	2.08E-05	0.00E+00	1.22E-04	3.74E-06	0.00E+00	4.60E-05	1.21E-06	0.00E+00
5643	457132.4	3768593	0.000404	2.07E-05	0.00E+00	4.04E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.58E-05	1.20E-06	0.00E+00
5644	457123.3	3768590	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.71E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
5645	457114.1	3768586	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
5646	457105	3768582	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.52E-05	1.18E-06	0.00E+00
5647	457095.9	3768578	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
5648	457086.8	3768575	0.000394	2.02E-05	0.00E+00	3.94E-04	2.02E-05	0.00E+00	1.18E-04	3.63E-06	0.00E+00	4.47E-05	1.17E-06	0.00E+00
5649	457077.7	3768571	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.17E-06	0.00E+00
5650	457068.5	3768567	0.000389	2.00E-05	0.00E+00	3.89E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
5651	457059.4	3768563	0.000387	1.98E-05	0.00E+00	3.87E-04	1.98E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.39E-05	1.15E-06	0.00E+00
5652	457050.3	3768560	0.000384	1.97E-05	0.00E+00	3.84E-04	1.97E-05	0.00E+00	1.15E-04	3.54E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
5653	457041.2	3768556	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.14E-06	0.00E+00
5654	457032.1	3768552	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
5655	457022.9	3768548	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
5656	457010	3768535	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
5657	457006.2	3768526	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
5658	457002.3	3768517	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.60E-06	0.00E+00	4.43E-05	1.16E-06	0.00E+00
5659	456998.5	3768508	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.18E-04	3.65E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
5660	456994.7	3768499	0.000401	2.06E-05	0.00E+00	4.01E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.55E-05	1.19E-06	0.00E+00
5661	456990.9	3768490	0.000407	2.08E-05	0.00E+00	4.07E-04	2.08E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.61E-05	1.21E-06	0.00E+00

5662	456987	3768481	0.000412	2.11E-05	0.00E+00	4.12E-04	2.11E-05	0.00E+00	1.24E-04	3.80E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
5663	456983.2	3768472	0.000418	2.14E-05	0.00E+00	4.18E-04	2.14E-05	0.00E+00	1.25E-04	3.86E-06	0.00E+00	4.75E-05	1.24E-06	0.00E+00
5664	456979.4	3768463	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
5665	456975.6	3768454	0.00043	2.21E-05	0.00E+00	4.30E-04	2.21E-05	0.00E+00	1.29E-04	3.97E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
5666	456956.4	3768408	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00
5667	456952.6	3768399	0.000468	2.40E-05	0.00E+00	4.68E-04	2.40E-05	0.00E+00	1.40E-04	4.32E-06	0.00E+00	5.31E-05	1.39E-06	0.00E+00
5668	456948.8	3768390	0.000475	2.44E-05	0.00E+00	4.75E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.39E-05	1.41E-06	0.00E+00
5669	456944.9	3768381	0.000482	2.47E-05	0.00E+00	4.82E-04	2.47E-05	0.00E+00	1.44E-04	4.44E-06	0.00E+00	5.47E-05	1.43E-06	0.00E+00
5670	456941.1	3768372	0.000489	2.51E-05	0.00E+00	4.89E-04	2.51E-05	0.00E+00	1.46E-04	4.51E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
5671	456937.3	3768363	0.000496	2.54E-05	0.00E+00	4.96E-04	2.54E-05	0.00E+00	1.48E-04	4.57E-06	0.00E+00	5.62E-05	1.48E-06	0.00E+00
5672	456933.5	3768354	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
5673	456929.6	3768345	0.00051	2.62E-05	0.00E+00	5.10E-04	2.62E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.79E-05	1.52E-06	0.00E+00
5674	456925.8	3768336	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.77E-06	0.00E+00	5.87E-05	1.54E-06	0.00E+00
5675	456899	3768272	0.00057	2.92E-05	0.00E+00	5.70E-04	2.92E-05	0.00E+00	1.71E-04	5.26E-06	0.00E+00	6.47E-05	1.70E-06	0.00E+00
5676	456895.2	3768263	0.000578	2.96E-05	0.00E+00	5.78E-04	2.96E-05	0.00E+00	1.73E-04	5.33E-06	0.00E+00	6.56E-05	1.72E-06	0.00E+00
5677	456891.4	3768254	0.000586	3.00E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.75E-04	5.40E-06	0.00E+00	6.64E-05	1.74E-06	0.00E+00
5678	456887.5	3768245	0.000593	3.04E-05	0.00E+00	5.93E-04	3.04E-05	0.00E+00	1.78E-04	5.47E-06	0.00E+00	6.73E-05	1.77E-06	0.00E+00
5679	457333.9	3768672	0.000429	2.20E-05	0.00E+00	4.29E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
5680	457343.8	3768672	0.000435	2.23E-05	0.00E+00	4.35E-04	2.23E-05	0.00E+00	1.30E-04	4.01E-06	0.00E+00	4.94E-05	1.30E-06	0.00E+00
5681	457353.8	3768672	0.000442	2.26E-05	0.00E+00	4.42E-04	2.26E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
5682	457363.8	3768672	0.000438	2.25E-05	0.00E+00	4.38E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.97E-05	1.30E-06	0.00E+00
5683	457373.7	3768672	0.000443	2.27E-05	0.00E+00	4.43E-04	2.27E-05	0.00E+00	1.33E-04	4.09E-06	0.00E+00	5.03E-05	1.32E-06	0.00E+00
5684	457383.7	3768672	0.000449	2.30E-05	0.00E+00	4.49E-04	2.30E-05	0.00E+00	1.34E-04	4.14E-06	0.00E+00	5.09E-05	1.34E-06	0.00E+00
5685	457393.7	3768672	0.000455	2.33E-05	0.00E+00	4.55E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
5686	457403.6	3768672	0.000461	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
5687	457413.6	3768672	0.000468	2.40E-05	0.00E+00	4.68E-04	2.40E-05	0.00E+00	1.40E-04	4.31E-06	0.00E+00	5.31E-05	1.39E-06	0.00E+00
5688	457423.6	3768672	0.000475	2.44E-05	0.00E+00	4.75E-04	2.44E-05	0.00E+00	1.42E-04	4.38E-06	0.00E+00	5.39E-05	1.41E-06	0.00E+00
5689	457433.6	3768672	0.000482	2.47E-05	0.00E+00	4.82E-04	2.47E-05	0.00E+00	1.45E-04	4.45E-06	0.00E+00	5.47E-05	1.44E-06	0.00E+00
5690	457443.5	3768672	0.00049	2.51E-05	0.00E+00	4.90E-04	2.51E-05	0.00E+00	1.47E-04	4.52E-06	0.00E+00	5.56E-05	1.46E-06	0.00E+00
5691	457453.5	3768672	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.65E-05	1.48E-06	0.00E+00
5692	457463.5	3768672	0.000507	2.60E-05	0.00E+00	5.07E-04	2.60E-05	0.00E+00	1.52E-04	4.67E-06	0.00E+00	5.75E-05	1.51E-06	0.00E+00
5693	457473.4	3768672	0.000516	2.64E-05	0.00E+00	5.16E-04	2.64E-05	0.00E+00	1.54E-04	4.75E-06	0.00E+00	5.85E-05	1.53E-06	0.00E+00
5694	457483.4	3768672	0.000525	2.69E-05	0.00E+00	5.25E-04	2.69E-05	0.00E+00	1.57E-04	4.84E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
5695	457493.4	3768672	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
5696	457503.3	3768672	0.000545	2.79E-05	0.00E+00	5.45E-04	2.79E-05	0.00E+00	1.63E-04	5.02E-06	0.00E+00	6.18E-05	1.62E-06	0.00E+00
5697	457513.3	3768672	0.000555	2.85E-05	0.00E+00	5.55E-04	2.85E-05	0.00E+00	1.66E-04	5.12E-06	0.00E+00	6.30E-05	1.65E-06	0.00E+00
5698	457523.3	3768672	0.000565	2.90E-05	0.00E+00	5.65E-04	2.90E-05	0.00E+00	1.69E-04	5.21E-06	0.00E+00	6.41E-05	1.68E-06	0.00E+00
5699	457533.3	3768672	0.000575	2.95E-05	0.00E+00	5.75E-04	2.95E-05	0.00E+00	1.72E-04	5.30E-06	0.00E+00	6.52E-05	1.71E-06	0.00E+00
5700	457543.2	3768672	0.000586	3.00E-05	0.00E+00	5.86E-04	3.00E-05	0.00E+00	1.76E-04	5.40E-06	0.00E+00	6.65E-05	1.74E-06	0.00E+00
5701	457553.2	3768672	0.000598	3.07E-05	0.00E+00	5.98E-04	3.07E-05	0.00E+00	1.79E-04	5.52E-06	0.00E+00	6.79E-05	1.78E-06	0.00E+00
5702	457563.2	3768672	0.000611	3.13E-05	0.00E+00	6.11E-04	3.13E-05	0.00E+00	1.83E-04	5.64E-06	0.00E+00	6.94E-05	1.82E-06	0.00E+00
5703	457573.1	3768672	0.000625	3.21E-05	0.00E+00	6.25E-04	3.21E-05	0.00E+00	1.87E-04	5.76E-06	0.00E+00	7.09E-05	1.86E-06	0.00E+00
5704	457583.1	3768672	0.00064	3.28E-05	0.00E+00	6.40E-04	3.28E-05	0.00E+00	1.92E-04	5.90E-06	0.00E+00	7.26E-05	1.90E-06	0.00E+00
5705	457593.1	3768672	0.000655	3.36E-05	0.00E+00	6.55E-04	3.36E-05	0.00E+00	1.96E-04	6.04E-06	0.00E+00	7.44E-05	1.95E-06	0.00E+00
5706	457603	3768672	0.000671	3.44E-05	0.00E+00	6.71E-04	3.44E-05	0.00E+00	2.01E-04	6.19E-06	0.00E+00	7.62E-05	2.00E-06	0.00E+00
5707	457613	3768672	0.000688	3.53E-05	0.00E+00	6.88E-04	3.53E-05	0.00E+00	2.06E-04	6.34E-06	0.00E+00	7.81E-05	2.05E-06	0.00E+00
5708	457623	3768672	0.000706	3.62E-05	0.00E+00	7.06E-04	3.62E-05	0.00E+00	2.11E-04	6.50E-06	0.00E+00	8.00E-05	2.10E-06	0.00E+00
5709	457633	3768672	0.000723	3.70E-05	0.00E+00	7.23E-04	3.70E-05	0.00E+00	2.16E-04	6.66E-06	0.00E+00	8.20E-05	2.15E-06	0.00E+00
5710	457642.9	3768672	0.000738	3.78E-05	0.00E+00	7.38E-04	3.78E-05	0.00E+00	2.21E-04	6.81E-06	0.00E+00	8.38E-05	2.20E-06	0.00E+00
5711	457652.9	3768672	0.000754	3.87E-05	0.00E+00	7.54E-04	3.87E-05	0.00E+00	2.26E-04	6.95E-06	0.00E+00	8.56E-05	2.24E-06	0.00E+00
5712	457662.9	3768672	0.000772	3.96E-05	0.00E+00	7.72E-04	3.96E-05	0.00E+00	2.31E-04	7.11E-06	0.00E+00	8.76E-05	2.30E-06	0.00E+00
5713	457672.8	3768672	0.000792	4.06E-05	0.00E+00	7.92E-04	4.06E-05	0.00E+00	2.37E-04	7.30E-06	0.00E+00	8.98E-05	2.36E-06	0.00E+00
5714	457682.8	3768672	0.000812	4.16E-05	0.00E+00	8.12E-04	4.16E-05	0.00E+00	2.43E-04	7.49E-06	0.00E+00	9.21E-05	2.42E-06	0.00E+00
5715	457692.8	3768672	0.000833	4.27E-05	0.00E+00	8.33E-04	4.27E-05	0.00E+00	2.50E-04	7.68E-06	0.00E+00	9.45E-05	2.48E-06	0.00E+00
5716	457702.8	3768672	0.000855	4.39E-05	0.00E+00	8.55E-04	4.39E-05	0.00E+00	2.56E-04	7.88E-06	0.00E+00	9.70E-05	2.55E-06	0.00E+00
5717	457296.5	3768701	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
5718	457287.3	3768697	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
5719	457278.2	3768693	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
5720	457269	3768690	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
5721	457259.9	3768686	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
5722	457250.8	3768682	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.25E-05	1.12E-06	0.00E+00
5723	457241.6	3768678	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.25E-05	1.11E-06	0.00E+00
5724	457232.5	3768675	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
5725	457223.3	3768671	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
5726	457214.2	3768667	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.23E-05	1.11E-06	0.00E+00
5727	457205.1	3768663	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.43E-06	0.00E+00	4.23E-05	1.11E-06	0.00E+00
5728	457195.9	3768659	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
5729	457186.8	3768656	0.000371	1.90E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
5730	457177.6	3768652	0.00037	1.90E-05	0.00E+00	3.70E-04	1.90E-05	0.00E+00	1.11E-04	3.41E-06	0.00E+00	4.20E-05	1.10E-06	0.00E+00
5731	457168.5	3768648	0.00037	1.89E-05	0.00E+00	3.70E-04	1.89E-05	0.00E+00	1.11E-04	3.41E-06	0.00E+00	4.19E-05	1.10E-06	0.00E+00
5732	457159.3	3768644	0.000369	1.89E-05	0.00E+00	3.69E-04	1.89E-05	0.00E+00	1.10E-04	3.40E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
5733	457150.2	3768641	0.000367	1.88E-05	0.00E+00	3.67E-04	1.88E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00
5734	457141.1	3768637	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.16E-05	1.09E-06	0.00E+00
5735	457131.9	3768633	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.09E-06	0.00E+00
5736	457122.8	3768629	0.000364	1.86E-05	0.00E+00	3.64E-04	1.86E-05	0.00E+00	1.09E-04	3.35E-06	0.00E+00	4.13E-05	1.08E-06	0.00E+00
5737	457113.6	3768626	0.000362	1.86E-05	0.00E+00	3.62E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
5738	457104.5	3768622	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.33E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
5739	457095.4	3768618	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.08E-04	3.31E-06	0.00E+00	4.08E-05	1.07E-06	0.00E+00
5740	457086.2	3768614	0.000358	1.83E-05	0.00E+00	3.58E-04	1.83E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.06E-06	0.00E+00
5741	457077.1	3768611	0.000356	1.82E-05	0.00E+00	3.56E-04	1.82E-05	0.00E+00	1.07E-04	3.28E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
5742	457067.9	3768607	0.000354	1.82E-05	0.00E+00	3.54E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.02E-05	1.05E-06	0.00E+00
5743	457058.8	3768603	0.000352	1.81E-05	0.00E+00	3.52E-04	1.81E-05	0.00E+00	1.06E-04	3.25E-06	0.00E+00	4.00E-05	1.05E-06	0.00E+00
5744	457049.6	3768599	0.00035	1.80E-05	0.00E+00	3.50E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
5745	457040.5	3768596	0.000348	1.79E-05	0.00E+00	3.48E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.95E-05	1.04E-06	0.00E+00
5746	457031.4	3768592	0.000346	1.78E-05	0.00E+00	3.46E-04	1.78E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.93E-05	1.03E-06	0.00E+00
5747	457022.2	3768588	0.000344	1.77E-05	0.00E+00	3.44E-04	1.77E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.91E-05	1.02E-06	0.00E+00
5748	457013.1	3768584	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
5749	457003.9	3768580	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.86E-05	1.01E-06	0.00E+00
5750	456994.8	3768577	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.01E-06	0.00E+00
5751	456981.8	3768564	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.86E-05	1.01E-06	0.00E+00
5752	456978	3768555	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.91E-05	1.02E-06	0.00E+00
5753	456974.1	3768546	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
5754	456970.3	3768537	0.000353	1.81E-05	0.00E+00	3.53E-04	1.81E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
5755	456966.5	3768527	0.000358	1.83E-05	0.00E+00	3.58E-04	1.83E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.06E-06	0.00E+00
5756	456962.6	3768518	0.000362	1.86E-05	0.00E+00	3.62E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
5757	456958.8	3768509	0.000367	1.88E-05	0.00E+00	3.67E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00

5758	456955	3768500	0.000372	1.91E-05	0.00E+00	3.72E-04	1.91E-05	0.00E+00	1.11E-04	3.43E-06	0.00E+00	4.22E-05	1.11E-06	0.00E+00
5759	456951.1	3768491	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
5760	456947.3	3768482	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.14E-04	3.52E-06	0.00E+00	4.33E-05	1.14E-06	0.00E+00
5761	456943.5	3768473	0.000387	1.98E-05	0.00E+00	3.87E-04	1.98E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.39E-05	1.15E-06	0.00E+00
5762	456939.6	3768464	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.45E-05	1.17E-06	0.00E+00
5763	456935.8	3768455	0.000397	2.04E-05	0.00E+00	3.97E-04	2.04E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
5764	456901.2	3768373	0.000448	2.29E-05	0.00E+00	4.48E-04	2.29E-05	0.00E+00	1.34E-04	4.13E-06	0.00E+00	5.08E-05	1.33E-06	0.00E+00
5765	456897.4	3768363	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.18E-06	0.00E+00	5.15E-05	1.35E-06	0.00E+00
5766	456893.6	3768354	0.00046	2.36E-05	0.00E+00	4.60E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.21E-05	1.37E-06	0.00E+00
5767	456889.7	3768345	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.39E-06	0.00E+00
5768	456885.9	3768336	0.000472	2.42E-05	0.00E+00	4.72E-04	2.42E-05	0.00E+00	1.41E-04	4.35E-06	0.00E+00	5.35E-05	1.40E-06	0.00E+00
5769	456882.1	3768327	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
5770	456878.2	3768318	0.000485	2.48E-05	0.00E+00	4.85E-04	2.48E-05	0.00E+00	1.45E-04	4.47E-06	0.00E+00	5.50E-05	1.44E-06	0.00E+00
5771	456874.4	3768309	0.000491	2.52E-05	0.00E+00	4.91E-04	2.52E-05	0.00E+00	1.47E-04	4.53E-06	0.00E+00	5.57E-05	1.46E-06	0.00E+00
5772	456870.6	3768300	0.000497	2.55E-05	0.00E+00	4.97E-04	2.55E-05	0.00E+00	1.49E-04	4.58E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
5773	456866.7	3768291	0.000504	2.58E-05	0.00E+00	5.04E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.72E-05	1.50E-06	0.00E+00
5774	456862.9	3768281	0.00051	2.62E-05	0.00E+00	5.10E-04	2.62E-05	0.00E+00	1.53E-04	4.70E-06	0.00E+00	5.79E-05	1.52E-06	0.00E+00
5775	456859	3768272	0.000517	2.65E-05	0.00E+00	5.17E-04	2.65E-05	0.00E+00	1.55E-04	4.76E-06	0.00E+00	5.86E-05	1.54E-06	0.00E+00
5776	456855.2	3768263	0.000523	2.68E-05	0.00E+00	5.23E-04	2.68E-05	0.00E+00	1.57E-04	4.82E-06	0.00E+00	5.94E-05	1.56E-06	0.00E+00
5777	456851.4	3768254	0.00053	2.72E-05	0.00E+00	5.30E-04	2.72E-05	0.00E+00	1.59E-04	4.89E-06	0.00E+00	6.01E-05	1.58E-06	0.00E+00
5778	456847.5	3768245	0.000537	2.75E-05	0.00E+00	5.37E-04	2.75E-05	0.00E+00	1.61E-04	4.95E-06	0.00E+00	6.09E-05	1.60E-06	0.00E+00
5779	457333.9	3768712	0.000374	1.91E-05	0.00E+00	3.74E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.24E-05	1.11E-06	0.00E+00
5780	457343.8	3768712	0.000378	1.94E-05	0.00E+00	3.78E-04	1.94E-05	0.00E+00	1.13E-04	3.48E-06	0.00E+00	4.29E-05	1.12E-06	0.00E+00
5781	457353.8	3768712	0.000382	1.96E-05	0.00E+00	3.82E-04	1.96E-05	0.00E+00	1.15E-04	3.52E-06	0.00E+00	4.34E-05	1.14E-06	0.00E+00
5782	457363.8	3768712	0.000387	1.98E-05	0.00E+00	3.87E-04	1.98E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.39E-05	1.15E-06	0.00E+00
5783	457373.8	3768712	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.45E-05	1.17E-06	0.00E+00
5784	457383.7	3768712	0.000397	2.03E-05	0.00E+00	3.97E-04	2.03E-05	0.00E+00	1.19E-04	3.66E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
5785	457393.7	3768712	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
5786	457403.7	3768712	0.000407	2.09E-05	0.00E+00	4.07E-04	2.09E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
5787	457413.6	3768712	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.80E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
5788	457423.6	3768712	0.000418	2.14E-05	0.00E+00	4.18E-04	2.14E-05	0.00E+00	1.25E-04	3.86E-06	0.00E+00	4.75E-05	1.24E-06	0.00E+00
5789	457433.6	3768712	0.000424	2.17E-05	0.00E+00	4.24E-04	2.17E-05	0.00E+00	1.27E-04	3.91E-06	0.00E+00	4.81E-05	1.26E-06	0.00E+00
5790	457443.5	3768712	0.00043	2.20E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.88E-05	1.28E-06	0.00E+00
5791	457453.5	3768712	0.000436	2.24E-05	0.00E+00	4.36E-04	2.24E-05	0.00E+00	1.31E-04	4.02E-06	0.00E+00	4.95E-05	1.30E-06	0.00E+00
5792	457463.5	3768712	0.000442	2.27E-05	0.00E+00	4.42E-04	2.27E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
5793	457473.5	3768712	0.000448	2.30E-05	0.00E+00	4.48E-04	2.30E-05	0.00E+00	1.34E-04	4.13E-06	0.00E+00	5.08E-05	1.33E-06	0.00E+00
5794	457483.4	3768712	0.000454	2.33E-05	0.00E+00	4.54E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.15E-05	1.35E-06	0.00E+00
5795	457493.4	3768712	0.000462	2.37E-05	0.00E+00	4.62E-04	2.37E-05	0.00E+00	1.38E-04	4.26E-06	0.00E+00	5.24E-05	1.37E-06	0.00E+00
5796	457503.4	3768712	0.00047	2.41E-05	0.00E+00	4.70E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.33E-05	1.40E-06	0.00E+00
5797	457513.3	3768712	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.42E-05	1.42E-06	0.00E+00
5798	457523.3	3768712	0.000486	2.49E-05	0.00E+00	4.86E-04	2.49E-05	0.00E+00	1.46E-04	4.48E-06	0.00E+00	5.52E-05	1.45E-06	0.00E+00
5799	457533.3	3768712	0.000495	2.54E-05	0.00E+00	4.95E-04	2.54E-05	0.00E+00	1.48E-04	4.57E-06	0.00E+00	5.62E-05	1.47E-06	0.00E+00
5800	457543.2	3768712	0.000505	2.59E-05	0.00E+00	5.05E-04	2.59E-05	0.00E+00	1.51E-04	4.65E-06	0.00E+00	5.73E-05	1.50E-06	0.00E+00
5801	457553.2	3768712	0.000514	2.64E-05	0.00E+00	5.14E-04	2.64E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
5802	457563.2	3768712	0.000524	2.69E-05	0.00E+00	5.24E-04	2.69E-05	0.00E+00	1.57E-04	4.83E-06	0.00E+00	5.95E-05	1.56E-06	0.00E+00
5803	457573.2	3768712	0.000535	2.74E-05	0.00E+00	5.35E-04	2.74E-05	0.00E+00	1.60E-04	4.93E-06	0.00E+00	6.07E-05	1.59E-06	0.00E+00
5804	457583.1	3768712	0.000546	2.80E-05	0.00E+00	5.46E-04	2.80E-05	0.00E+00	1.64E-04	5.03E-06	0.00E+00	6.19E-05	1.62E-06	0.00E+00
5805	457593.1	3768712	0.000558	2.86E-05	0.00E+00	5.58E-04	2.86E-05	0.00E+00	1.67E-04	5.14E-06	0.00E+00	6.33E-05	1.66E-06	0.00E+00
5806	457603.1	3768712	0.000569	2.92E-05	0.00E+00	5.69E-04	2.92E-05	0.00E+00	1.71E-04	5.25E-06	0.00E+00	6.46E-05	1.69E-06	0.00E+00
5807	457613	3768712	0.00058	2.97E-05	0.00E+00	5.80E-04	2.97E-05	0.00E+00	1.74E-04	5.35E-06	0.00E+00	6.58E-05	1.73E-06	0.00E+00
5808	457623	3768712	0.000591	3.03E-05	0.00E+00	5.91E-04	3.03E-05	0.00E+00	1.77E-04	5.45E-06	0.00E+00	6.71E-05	1.76E-06	0.00E+00
5809	457633	3768712	0.000603	3.09E-05	0.00E+00	6.03E-04	3.09E-05	0.00E+00	1.81E-04	5.56E-06	0.00E+00	6.85E-05	1.80E-06	0.00E+00
5810	457642.9	3768712	0.000618	3.17E-05	0.00E+00	6.18E-04	3.17E-05	0.00E+00	1.85E-04	5.69E-06	0.00E+00	7.01E-05	1.84E-06	0.00E+00
5811	457652.9	3768712	0.000632	3.24E-05	0.00E+00	6.32E-04	3.24E-05	0.00E+00	1.89E-04	5.83E-06	0.00E+00	7.17E-05	1.88E-06	0.00E+00
5812	457662.9	3768712	0.000648	3.32E-05	0.00E+00	6.48E-04	3.32E-05	0.00E+00	1.94E-04	5.97E-06	0.00E+00	7.35E-05	1.93E-06	0.00E+00
5813	457672.9	3768712	0.000663	3.40E-05	0.00E+00	6.63E-04	3.40E-05	0.00E+00	1.99E-04	6.12E-06	0.00E+00	7.53E-05	1.97E-06	0.00E+00
5814	457682.8	3768712	0.00068	3.49E-05	0.00E+00	6.80E-04	3.49E-05	0.00E+00	2.04E-04	6.27E-06	0.00E+00	7.71E-05	2.02E-06	0.00E+00
5815	457692.8	3768712	0.000697	3.57E-05	0.00E+00	6.97E-04	3.57E-05	0.00E+00	2.09E-04	6.42E-06	0.00E+00	7.90E-05	2.07E-06	0.00E+00
5816	457702.8	3768712	0.000713	3.66E-05	0.00E+00	7.13E-04	3.66E-05	0.00E+00	2.14E-04	6.58E-06	0.00E+00	8.09E-05	2.12E-06	0.00E+00
5817	457296.4	3768741	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.94E-05	3.06E-06	0.00E+00	3.77E-05	9.88E-07	0.00E+00
5818	457287.3	3768737	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.95E-05	3.06E-06	0.00E+00	3.77E-05	9.88E-07	0.00E+00
5819	457278.1	3768733	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.95E-05	3.06E-06	0.00E+00	3.77E-05	9.89E-07	0.00E+00
5820	457269	3768730	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.96E-05	3.07E-06	0.00E+00	3.77E-05	9.90E-07	0.00E+00
5821	457259.8	3768726	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.98E-05	3.07E-06	0.00E+00	3.78E-05	9.91E-07	0.00E+00
5822	457250.6	3768722	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.99E-05	3.07E-06	0.00E+00	3.78E-05	9.92E-07	0.00E+00
5823	457241.5	3768718	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	9.99E-05	3.07E-06	0.00E+00	3.78E-05	9.93E-07	0.00E+00
5824	457232.3	3768714	0.000337	1.73E-05	0.00E+00	3.37E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.00E-06	0.00E+00
5825	457223.1	3768711	0.000337	1.73E-05	0.00E+00	3.37E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.82E-05	1.00E-06	0.00E+00
5826	457214	3768707	0.000337	1.73E-05	0.00E+00	3.37E-04	1.73E-05	0.00E+00	1.01E-04	3.10E-06	0.00E+00	3.82E-05	1.00E-06	0.00E+00
5827	457204.8	3768703	0.000336	1.72E-05	0.00E+00	3.36E-04	1.72E-05	0.00E+00	1.01E-04	3.10E-06	0.00E+00	3.82E-05	1.00E-06	0.00E+00
5828	457195.7	3768699	0.000336	1.72E-05	0.00E+00	3.36E-04	1.72E-05	0.00E+00	1.01E-04	3.10E-06	0.00E+00	3.81E-05	1.00E-06	0.00E+00
5829	457186.5	3768696	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.81E-05	9.98E-07	0.00E+00
5830	457177.3	3768692	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.97E-07	0.00E+00
5831	457168.2	3768688	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.95E-07	0.00E+00
5832	457159	3768684	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.93E-07	0.00E+00
5833	457149.9	3768681	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.98E-05	3.07E-06	0.00E+00	3.78E-05	9.91E-07	0.00E+00
5834	457140.7	3768677	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.95E-05	3.06E-06	0.00E+00	3.77E-05	9.89E-07	0.00E+00
5835	457131.5	3768673	0.000331	1.70E-05	0.00E+00	3.31E-04	1.70E-05	0.00E+00	9.93E-05	3.06E-06	0.00E+00	3.76E-05	9.86E-07	0.00E+00
5836	457122.4	3768669	0.000331	1.69E-05	0.00E+00	3.31E-04	1.69E-05	0.00E+00	9.90E-05	3.05E-06	0.00E+00	3.75E-05	9.84E-07	0.00E+00
5837	457113.2	3768665	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.87E-05	3.04E-06	0.00E+00	3.74E-05	9.81E-07	0.00E+00
5838	457104.1	3768662	0.000328	1.68E-05	0.00E+00	3.28E-04	1.68E-05	0.00E+00	9.84E-05	3.03E-06	0.00E+00	3.73E-05	9.77E-07	0.00E+00
5839	457094.9	3768658	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.80E-05	3.02E-06	0.00E+00	3.71E-05	9.74E-07	0.00E+00
5840	457085.7	3768654	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.77E-05	3.01E-06	0.00E+00	3.70E-05	9.70E-07	0.00E+00
5841	457076.6	3768650	0.000325	1.67E-05	0.00E+00	3.25E-04	1.67E-05	0.00E+00	9.73E-05	2.99E-06	0.00E+00	3.69E-05	9.67E-07	0.00E+00
5842	457067.4	3768647	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.69E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
5843	457058.3	3768643	0.000322	1.65E-05	0.00E+00	3.22E-04	1.65E-05	0.00E+00	9.65E-05	2.97E-06	0.00E+00	3.66E-05	9.59E-07	0.00E+00
5844	457049.1	3768639	0.000321	1.64E-05	0.00E+00	3.21E-04	1.64E-05	0.00E+00	9.60E-05	2.96E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
5845	457039.9	3768635	0.000319	1.64E-05	0.00E+00	3.19E-04	1.64E-05	0.00E+00	9.56E-05	2.94E-06	0.00E+00	3.62E-05	9.50E-07	0.00E+00
5846	457030.8	3768632	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.51E-05	2.93E-06	0.00E+00	3.60E-05	9.45E-07	0.00E+00
5847	457021.6	3768628	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.46E-05	2.91E-06	0.00E+00	3.58E-05	9.40E-07	0.00E+00
5848	457012.5	3768624	0.000314	1.61E-05	0.00E+00	3.14E-04	1.61E-05	0.00E+00	9.41E-05	2.90E-06	0.00E+00	3.56E-05	9.35E-07	0.00E+00
5849	457003.3	3768620	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.36E-05	2.88E-06	0.00E+00	3.55E-05	9.30E-07	0.00E+00
5850	456994.1	3768616	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.30E-05	2.86E-06	0.00E+00	3.52E-05	9.24E-07	0.00E+00
5851	456985	3768613	0.000309	1.58E-05	0.00E+00	3.09E-04	1.58E-05	0.00E+00	9.25E-05	2.85E-06	0.00E+00	3.50E-05	9.19E-07	0.00E+00
5852	456975.8	3768609	0.000307	1.57E-05	0.00E+00	3.07E-04	1.57E-05	0.00E+00	9.19E-05	2.83E-06	0.00E+00	3.48E-05	9.13E-07	0.00E+00
5853	456966.6	3768605	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.13E-05	2.81E-06	0.00E+00	3.46E-05	9.07E-07	0.00E+00

5854	456953.6	3768592	0.000307	1.57E-05	0.00E+00	3.07E-04	1.57E-05	0.00E+00	9.18E-05	2.83E-06	0.00E+00	3.48E-05	9.12E-07	0.00E+00
5855	456949.8	3768583	0.00031	1.59E-05	0.00E+00	3.10E-04	1.59E-05	0.00E+00	9.29E-05	2.86E-06	0.00E+00	3.52E-05	9.23E-07	0.00E+00
5856	456946	3768574	0.000314	1.61E-05	0.00E+00	3.14E-04	1.61E-05	0.00E+00	9.41E-05	2.90E-06	0.00E+00	3.56E-05	9.35E-07	0.00E+00
5857	456942.1	3768565	0.000318	1.63E-05	0.00E+00	3.18E-04	1.63E-05	0.00E+00	9.52E-05	2.93E-06	0.00E+00	3.61E-05	9.46E-07	0.00E+00
5858	456938.3	3768556	0.000322	1.65E-05	0.00E+00	3.22E-04	1.65E-05	0.00E+00	9.64E-05	2.97E-06	0.00E+00	3.65E-05	9.57E-07	0.00E+00
5859	456934.4	3768547	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.75E-05	3.00E-06	0.00E+00	3.69E-05	9.69E-07	0.00E+00
5860	456930.6	3768537	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.87E-05	3.04E-06	0.00E+00	3.74E-05	9.81E-07	0.00E+00
5861	456926.7	3768528	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	9.99E-05	3.08E-06	0.00E+00	3.79E-05	9.93E-07	0.00E+00
5862	456922.9	3768519	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.00E-06	0.00E+00
5863	456896	3768455	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00
5864	456880.6	3768419	0.000387	1.98E-05	0.00E+00	3.87E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.39E-05	1.15E-06	0.00E+00
5865	456876.7	3768410	0.000391	2.01E-05	0.00E+00	3.91E-04	2.01E-05	0.00E+00	1.17E-04	3.61E-06	0.00E+00	4.44E-05	1.16E-06	0.00E+00
5866	456872.9	3768401	0.000396	2.03E-05	0.00E+00	3.96E-04	2.03E-05	0.00E+00	1.19E-04	3.65E-06	0.00E+00	4.50E-05	1.18E-06	0.00E+00
5867	456869.1	3768391	0.000401	2.06E-05	0.00E+00	4.01E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.55E-05	1.19E-06	0.00E+00
5868	456865.2	3768382	0.000406	2.08E-05	0.00E+00	4.06E-04	2.08E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.61E-05	1.21E-06	0.00E+00
5869	456861.4	3768373	0.000412	2.11E-05	0.00E+00	4.12E-04	2.11E-05	0.00E+00	1.23E-04	3.79E-06	0.00E+00	4.67E-05	1.22E-06	0.00E+00
5870	456857.5	3768364	0.000417	2.14E-05	0.00E+00	4.17E-04	2.14E-05	0.00E+00	1.25E-04	3.84E-06	0.00E+00	4.73E-05	1.24E-06	0.00E+00
5871	456853.7	3768355	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.79E-05	1.26E-06	0.00E+00
5872	456849.8	3768346	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.94E-06	0.00E+00	4.85E-05	1.27E-06	0.00E+00
5873	456846	3768337	0.000433	2.22E-05	0.00E+00	4.33E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.91E-05	1.29E-06	0.00E+00
5874	456842.1	3768327	0.000438	2.25E-05	0.00E+00	4.38E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.97E-05	1.30E-06	0.00E+00
5875	456838.3	3768318	0.000444	2.27E-05	0.00E+00	4.44E-04	2.27E-05	0.00E+00	1.33E-04	4.09E-06	0.00E+00	5.03E-05	1.32E-06	0.00E+00
5876	456834.5	3768309	0.000449	2.30E-05	0.00E+00	4.49E-04	2.30E-05	0.00E+00	1.35E-04	4.14E-06	0.00E+00	5.09E-05	1.34E-06	0.00E+00
5877	456830.6	3768300	0.000455	2.33E-05	0.00E+00	4.55E-04	2.33E-05	0.00E+00	1.36E-04	4.19E-06	0.00E+00	5.16E-05	1.35E-06	0.00E+00
5878	456826.8	3768291	0.00046	2.36E-05	0.00E+00	4.60E-04	2.36E-05	0.00E+00	1.38E-04	4.24E-06	0.00E+00	5.22E-05	1.37E-06	0.00E+00
5879	456822.9	3768282	0.000466	2.39E-05	0.00E+00	4.66E-04	2.39E-05	0.00E+00	1.39E-04	4.29E-06	0.00E+00	5.28E-05	1.39E-06	0.00E+00
5880	456819.1	3768273	0.000471	2.42E-05	0.00E+00	4.71E-04	2.42E-05	0.00E+00	1.41E-04	4.34E-06	0.00E+00	5.35E-05	1.40E-06	0.00E+00
5881	456815.2	3768264	0.000477	2.44E-05	0.00E+00	4.77E-04	2.44E-05	0.00E+00	1.43E-04	4.40E-06	0.00E+00	5.41E-05	1.42E-06	0.00E+00
5882	456811.4	3768254	0.000482	2.47E-05	0.00E+00	4.82E-04	2.47E-05	0.00E+00	1.44E-04	4.45E-06	0.00E+00	5.47E-05	1.44E-06	0.00E+00
5883	456807.5	3768245	0.000488	2.50E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.54E-05	1.45E-06	0.00E+00
5884	457333.9	3768752	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.98E-07	0.00E+00
5885	457343.9	3768752	0.000339	1.74E-05	0.00E+00	3.39E-04	1.74E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.84E-05	1.01E-06	0.00E+00
5886	457353.8	3768752	0.000343	1.76E-05	0.00E+00	3.43E-04	1.76E-05	0.00E+00	1.03E-04	3.16E-06	0.00E+00	3.89E-05	1.02E-06	0.00E+00
5887	457363.8	3768752	0.000346	1.78E-05	0.00E+00	3.46E-04	1.78E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.93E-05	1.03E-06	0.00E+00
5888	457373.8	3768752	0.00035	1.79E-05	0.00E+00	3.50E-04	1.79E-05	0.00E+00	1.05E-04	3.22E-06	0.00E+00	3.97E-05	1.04E-06	0.00E+00
5889	457383.7	3768752	0.000354	1.81E-05	0.00E+00	3.54E-04	1.81E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
5890	457393.7	3768752	0.000358	1.83E-05	0.00E+00	3.58E-04	1.83E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.06E-06	0.00E+00
5891	457403.7	3768752	0.000362	1.86E-05	0.00E+00	3.62E-04	1.86E-05	0.00E+00	1.08E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
5892	457413.7	3768752	0.000366	1.88E-05	0.00E+00	3.66E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.16E-05	1.09E-06	0.00E+00
5893	457423.6	3768752	0.000371	1.90E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
5894	457433.6	3768752	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
5895	457443.6	3768752	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.31E-05	1.13E-06	0.00E+00
5896	457453.5	3768752	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.54E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
5897	457463.5	3768752	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
5898	457473.5	3768752	0.000395	2.03E-05	0.00E+00	3.95E-04	2.03E-05	0.00E+00	1.18E-04	3.64E-06	0.00E+00	4.49E-05	1.18E-06	0.00E+00
5899	457483.4	3768752	0.000401	2.06E-05	0.00E+00	4.01E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.55E-05	1.19E-06	0.00E+00
5900	457493.4	3768752	0.000407	2.09E-05	0.00E+00	4.07E-04	2.09E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
5901	457503.4	3768752	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.81E-06	0.00E+00	4.69E-05	1.23E-06	0.00E+00
5902	457513.4	3768752	0.00042	2.15E-05	0.00E+00	4.20E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
5903	457523.3	3768752	0.000426	2.18E-05	0.00E+00	4.26E-04	2.18E-05	0.00E+00	1.28E-04	3.92E-06	0.00E+00	4.83E-05	1.27E-06	0.00E+00
5904	457533.3	3768752	0.000432	2.22E-05	0.00E+00	4.32E-04	2.22E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.29E-06	0.00E+00
5905	457543.3	3768752	0.000439	2.25E-05	0.00E+00	4.39E-04	2.25E-05	0.00E+00	1.31E-04	4.04E-06	0.00E+00	4.98E-05	1.31E-06	0.00E+00
5906	457553.2	3768752	0.000446	2.28E-05	0.00E+00	4.46E-04	2.28E-05	0.00E+00	1.33E-04	4.11E-06	0.00E+00	5.06E-05	1.33E-06	0.00E+00
5907	457563.2	3768752	0.000453	2.32E-05	0.00E+00	4.53E-04	2.32E-05	0.00E+00	1.36E-04	4.17E-06	0.00E+00	5.14E-05	1.35E-06	0.00E+00
5908	457573.2	3768752	0.000461	2.36E-05	0.00E+00	4.61E-04	2.36E-05	0.00E+00	1.38E-04	4.25E-06	0.00E+00	5.23E-05	1.37E-06	0.00E+00
5909	457583.1	3768752	0.000469	2.41E-05	0.00E+00	4.69E-04	2.41E-05	0.00E+00	1.41E-04	4.33E-06	0.00E+00	5.32E-05	1.40E-06	0.00E+00
5910	457593.1	3768752	0.000478	2.45E-05	0.00E+00	4.78E-04	2.45E-05	0.00E+00	1.43E-04	4.41E-06	0.00E+00	5.43E-05	1.42E-06	0.00E+00
5911	457603.1	3768752	0.000488	2.50E-05	0.00E+00	4.88E-04	2.50E-05	0.00E+00	1.46E-04	4.50E-06	0.00E+00	5.53E-05	1.45E-06	0.00E+00
5912	457613.1	3768752	0.000498	2.55E-05	0.00E+00	4.98E-04	2.55E-05	0.00E+00	1.49E-04	4.59E-06	0.00E+00	5.64E-05	1.48E-06	0.00E+00
5913	457623	3768752	0.000508	2.60E-05	0.00E+00	5.08E-04	2.60E-05	0.00E+00	1.52E-04	4.68E-06	0.00E+00	5.76E-05	1.51E-06	0.00E+00
5914	457633	3768752	0.000518	2.66E-05	0.00E+00	5.18E-04	2.66E-05	0.00E+00	1.55E-04	4.78E-06	0.00E+00	5.88E-05	1.54E-06	0.00E+00
5915	457643	3768752	0.00053	2.71E-05	0.00E+00	5.30E-04	2.71E-05	0.00E+00	1.59E-04	4.88E-06	0.00E+00	6.01E-05	1.58E-06	0.00E+00
5916	457652.9	3768752	0.000541	2.77E-05	0.00E+00	5.41E-04	2.77E-05	0.00E+00	1.62E-04	4.99E-06	0.00E+00	6.14E-05	1.61E-06	0.00E+00
5917	457662.9	3768752	0.000553	2.83E-05	0.00E+00	5.53E-04	2.83E-05	0.00E+00	1.66E-04	5.09E-06	0.00E+00	6.27E-05	1.64E-06	0.00E+00
5918	457672.9	3768752	0.000564	2.89E-05	0.00E+00	5.64E-04	2.89E-05	0.00E+00	1.69E-04	5.20E-06	0.00E+00	6.40E-05	1.68E-06	0.00E+00
5919	457682.8	3768752	0.000575	2.95E-05	0.00E+00	5.75E-04	2.95E-05	0.00E+00	1.72E-04	5.30E-06	0.00E+00	6.53E-05	1.71E-06	0.00E+00
5920	457692.8	3768752	0.000587	3.01E-05	0.00E+00	5.87E-04	3.01E-05	0.00E+00	1.76E-04	5.41E-06	0.00E+00	6.66E-05	1.75E-06	0.00E+00
5921	457702.8	3768752	0.000599	3.07E-05	0.00E+00	5.99E-04	3.07E-05	0.00E+00	1.80E-04	5.53E-06	0.00E+00	6.80E-05	1.78E-06	0.00E+00
5922	457296.4	3768781	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.99E-05	2.77E-06	0.00E+00	3.41E-05	8.94E-07	0.00E+00
5923	457287.2	3768777	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	9.00E-05	2.77E-06	0.00E+00	3.41E-05	8.94E-07	0.00E+00
5924	457278.1	3768773	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.00E-05	2.77E-06	0.00E+00	3.41E-05	8.95E-07	0.00E+00
5925	457268.9	3768770	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.01E-05	2.77E-06	0.00E+00	3.41E-05	8.95E-07	0.00E+00
5926	457259.7	3768766	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.01E-05	2.77E-06	0.00E+00	3.41E-05	8.95E-07	0.00E+00
5927	457250.5	3768762	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.02E-05	2.78E-06	0.00E+00	3.42E-05	8.96E-07	0.00E+00
5928	457241.3	3768758	0.000301	1.55E-05	0.00E+00	3.01E-04	1.55E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.97E-07	0.00E+00
5929	457232.2	3768754	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.04E-05	2.78E-06	0.00E+00	3.42E-05	8.98E-07	0.00E+00
5930	457223	3768751	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.05E-05	2.79E-06	0.00E+00	3.43E-05	8.99E-07	0.00E+00
5931	457213.8	3768747	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.05E-05	2.79E-06	0.00E+00	3.43E-05	9.00E-07	0.00E+00
5932	457204.6	3768743	0.000305	1.57E-05	0.00E+00	3.05E-04	1.57E-05	0.00E+00	9.14E-05	2.81E-06	0.00E+00	3.46E-05	9.09E-07	0.00E+00
5933	457195.5	3768739	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.14E-05	2.81E-06	0.00E+00	3.46E-05	9.08E-07	0.00E+00
5934	457186.3	3768736	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.13E-05	2.81E-06	0.00E+00	3.46E-05	9.07E-07	0.00E+00
5935	457177.1	3768732	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.45E-05	9.06E-07	0.00E+00
5936	457167.9	3768728	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.11E-05	2.80E-06	0.00E+00	3.45E-05	9.05E-07	0.00E+00
5937	457158.7	3768724	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.10E-05	2.80E-06	0.00E+00	3.45E-05	9.04E-07	0.00E+00
5938	457149.6	3768720	0.000303	1.56E-05	0.00E+00	3.03E-04	1.56E-05	0.00E+00	9.08E-05	2.80E-06	0.00E+00	3.44E-05	9.03E-07	0.00E+00
5939	457140.4	3768717	0.000303	1.55E-05	0.00E+00	3.03E-04	1.55E-05	0.00E+00	9.07E-05	2.79E-06	0.00E+00	3.44E-05	9.01E-07	0.00E+00
5940	457131.2	3768713	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.05E-05	2.79E-06	0.00E+00	3.43E-05	9.00E-07	0.00E+00
5941	457122	3768709	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.04E-05	2.78E-06	0.00E+00	3.42E-05	8.98E-07	0.00E+00
5942	457112.9	3768705	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.01E-05	2.77E-06	0.00E+00	3.41E-05	8.96E-07	0.00E+00
5943	457103.7	3768702	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.99E-05	2.77E-06	0.00E+00	3.41E-05	8.93E-07	0.00E+00
5944	457094.5	3768698	0.000299	1.53E-05	0.00E+00	2.99E-04	1.53E-05	0.00E+00	8.97E-05	2.76E-06	0.00E+00	3.40E-05	8.91E-07	0.00E+00
5945	457085.3	3768694	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.94E-05	2.75E-06	0.00E+00	3.39E-05	8.88E-07	0.00E+00
5946	457076.2	3768690	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.91E-05	2.74E-06	0.00E+00	3.38E-05	8.86E-07	0.00E+00
5947	457067	3768686	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.88E-05	2.73E-06	0.00E+00	3.37E-05	8.83E-07	0.00E+00
5948	457057.8	3768683	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.85E-05	2.72E-06	0.00E+00	3.35E-05	8.80E-07	0.00E+00
5949	457048.6	3768679	0.000294	1.51E-05	0.00E+00	2.94E-04	1.51E-05	0.00E+00	8.82E-05	2.71E-06	0.00E+00	3.34E-05	8.76E-07	0.00E+00

5950	457039.4	3768675	0.000293	1.50E-05	0.00E+00	2.93E-04	1.50E-05	0.00E+00	8.78E-05	2.70E-06	0.00E+00	3.33E-05	8.73E-07	0.00E+00
5951	457030.3	3768671	0.000292	1.50E-05	0.00E+00	2.92E-04	1.50E-05	0.00E+00	8.75E-05	2.69E-06	0.00E+00	3.31E-05	8.69E-07	0.00E+00
5952	457021.1	3768668	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.71E-05	2.68E-06	0.00E+00	3.30E-05	8.65E-07	0.00E+00
5953	457011.9	3768664	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.67E-05	2.67E-06	0.00E+00	3.28E-05	8.61E-07	0.00E+00
5954	457002.7	3768660	0.000288	1.48E-05	0.00E+00	2.88E-04	1.48E-05	0.00E+00	8.63E-05	2.66E-06	0.00E+00	3.27E-05	8.57E-07	0.00E+00
5955	456993.6	3768656	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.58E-05	2.64E-06	0.00E+00	3.25E-05	8.53E-07	0.00E+00
5956	456984.4	3768652	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.54E-05	2.63E-06	0.00E+00	3.23E-05	8.48E-07	0.00E+00
5957	456975.2	3768649	0.000284	1.45E-05	0.00E+00	2.84E-04	1.45E-05	0.00E+00	8.49E-05	2.61E-06	0.00E+00	3.22E-05	8.44E-07	0.00E+00
5958	456966	3768645	0.000282	1.45E-05	0.00E+00	2.82E-04	1.45E-05	0.00E+00	8.45E-05	2.60E-06	0.00E+00	3.20E-05	8.39E-07	0.00E+00
5959	456956.8	3768641	0.00028	1.44E-05	0.00E+00	2.80E-04	1.44E-05	0.00E+00	8.40E-05	2.58E-06	0.00E+00	3.18E-05	8.34E-07	0.00E+00
5960	456947.7	3768637	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.35E-05	2.57E-06	0.00E+00	3.16E-05	8.29E-07	0.00E+00
5961	456938.5	3768634	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.30E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
5962	456925.5	3768621	0.000278	1.43E-05	0.00E+00	2.78E-04	1.43E-05	0.00E+00	8.34E-05	2.57E-06	0.00E+00	3.16E-05	8.28E-07	0.00E+00
5963	456898.5	3768557	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.97E-07	0.00E+00
5964	456894.7	3768547	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.13E-05	2.81E-06	0.00E+00	3.46E-05	9.07E-07	0.00E+00
5965	456890.8	3768538	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
5966	456886.9	3768529	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.34E-05	2.87E-06	0.00E+00	3.54E-05	9.28E-07	0.00E+00
5967	456883.1	3768520	0.000315	1.62E-05	0.00E+00	3.15E-04	1.62E-05	0.00E+00	9.44E-05	2.91E-06	0.00E+00	3.58E-05	9.38E-07	0.00E+00
5968	456879.2	3768511	0.000319	1.64E-05	0.00E+00	3.19E-04	1.64E-05	0.00E+00	9.55E-05	2.94E-06	0.00E+00	3.62E-05	9.49E-07	0.00E+00
5969	456875.4	3768502	0.000323	1.65E-05	0.00E+00	3.23E-04	1.65E-05	0.00E+00	9.66E-05	2.97E-06	0.00E+00	3.66E-05	9.60E-07	0.00E+00
5970	456871.5	3768493	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.77E-05	3.01E-06	0.00E+00	3.70E-05	9.71E-07	0.00E+00
5971	456867.7	3768483	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.89E-05	3.04E-06	0.00E+00	3.75E-05	9.82E-07	0.00E+00
5972	456863.8	3768474	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.94E-07	0.00E+00
5973	456860	3768465	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.83E-05	1.01E-06	0.00E+00
5974	456856.1	3768456	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
5975	456840.7	3768419	0.000358	1.84E-05	0.00E+00	3.58E-04	1.84E-05	0.00E+00	1.07E-04	3.30E-06	0.00E+00	4.06E-05	1.07E-06	0.00E+00
5976	456836.9	3768410	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.11E-05	1.08E-06	0.00E+00
5977	456833	3768401	0.000367	1.88E-05	0.00E+00	3.67E-04	1.88E-05	0.00E+00	1.10E-04	3.38E-06	0.00E+00	4.16E-05	1.09E-06	0.00E+00
5978	456829.2	3768392	0.000371	1.90E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
5979	456825.3	3768383	0.000376	1.93E-05	0.00E+00	3.76E-04	1.93E-05	0.00E+00	1.13E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
5980	456821.5	3768374	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.50E-06	0.00E+00	4.31E-05	1.13E-06	0.00E+00
5981	456817.6	3768365	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.36E-05	1.14E-06	0.00E+00
5982	456813.8	3768355	0.000389	2.00E-05	0.00E+00	3.89E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
5983	456809.9	3768346	0.000394	2.02E-05	0.00E+00	3.94E-04	2.02E-05	0.00E+00	1.18E-04	3.63E-06	0.00E+00	4.47E-05	1.17E-06	0.00E+00
5984	456806.1	3768337	0.000399	2.04E-05	0.00E+00	3.99E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.52E-05	1.19E-06	0.00E+00
5985	456802.2	3768328	0.000403	2.07E-05	0.00E+00	4.03E-04	2.07E-05	0.00E+00	1.21E-04	3.72E-06	0.00E+00	4.57E-05	1.20E-06	0.00E+00
5986	456798.4	3768319	0.000408	2.09E-05	0.00E+00	4.08E-04	2.09E-05	0.00E+00	1.22E-04	3.76E-06	0.00E+00	4.63E-05	1.21E-06	0.00E+00
5987	456794.5	3768310	0.000413	2.12E-05	0.00E+00	4.13E-04	2.12E-05	0.00E+00	1.24E-04	3.80E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
5988	456790.7	3768300	0.000418	2.14E-05	0.00E+00	4.18E-04	2.14E-05	0.00E+00	1.25E-04	3.85E-06	0.00E+00	4.74E-05	1.24E-06	0.00E+00
5989	456786.8	3768291	0.000422	2.17E-05	0.00E+00	4.22E-04	2.17E-05	0.00E+00	1.27E-04	3.89E-06	0.00E+00	4.79E-05	1.26E-06	0.00E+00
5990	456783	3768282	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.94E-06	0.00E+00	4.85E-05	1.27E-06	0.00E+00
5991	456779.1	3768273	0.000432	2.21E-05	0.00E+00	4.32E-04	2.21E-05	0.00E+00	1.29E-04	3.98E-06	0.00E+00	4.90E-05	1.29E-06	0.00E+00
5992	456775.3	3768264	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.02E-06	0.00E+00	4.95E-05	1.30E-06	0.00E+00
5993	456771.4	3768255	0.000441	2.26E-05	0.00E+00	4.41E-04	2.26E-05	0.00E+00	1.32E-04	4.07E-06	0.00E+00	5.01E-05	1.31E-06	0.00E+00
5994	456767.6	3768246	0.000446	2.29E-05	0.00E+00	4.46E-04	2.29E-05	0.00E+00	1.34E-04	4.11E-06	0.00E+00	5.06E-05	1.33E-06	0.00E+00
5995	457333.9	3768792	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.98E-07	0.00E+00
5996	457343.9	3768792	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.46E-05	9.06E-07	0.00E+00
5997	457353.8	3768792	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.22E-05	2.84E-06	0.00E+00	3.49E-05	9.16E-07	0.00E+00
5998	457363.8	3768792	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.31E-05	2.86E-06	0.00E+00	3.53E-05	9.25E-07	0.00E+00
5999	457373.8	3768792	0.000314	1.61E-05	0.00E+00	3.14E-04	1.61E-05	0.00E+00	9.40E-05	2.89E-06	0.00E+00	3.56E-05	9.34E-07	0.00E+00
6000	457383.8	3768792	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.50E-05	2.92E-06	0.00E+00	3.60E-05	9.44E-07	0.00E+00
6001	457393.7	3768792	0.000321	1.64E-05	0.00E+00	3.21E-04	1.64E-05	0.00E+00	9.60E-05	2.95E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
6002	457403.7	3768792	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.71E-05	2.99E-06	0.00E+00	3.68E-05	9.65E-07	0.00E+00
6003	457413.7	3768792	0.000328	1.68E-05	0.00E+00	3.28E-04	1.68E-05	0.00E+00	9.82E-05	3.02E-06	0.00E+00	3.72E-05	9.75E-07	0.00E+00
6004	457423.6	3768792	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.93E-05	3.06E-06	0.00E+00	3.76E-05	9.87E-07	0.00E+00
6005	457433.6	3768792	0.000336	1.72E-05	0.00E+00	3.36E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.81E-05	9.98E-07	0.00E+00
6006	457443.6	3768792	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
6007	457453.5	3768792	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
6008	457463.5	3768792	0.000347	1.78E-05	0.00E+00	3.47E-04	1.78E-05	0.00E+00	1.04E-04	3.20E-06	0.00E+00	3.94E-05	1.03E-06	0.00E+00
6009	457473.5	3768792	0.000351	1.80E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
6010	457483.5	3768792	0.000355	1.82E-05	0.00E+00	3.55E-04	1.82E-05	0.00E+00	1.06E-04	3.27E-06	0.00E+00	4.03E-05	1.06E-06	0.00E+00
6011	457493.4	3768792	0.00036	1.84E-05	0.00E+00	3.60E-04	1.84E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.08E-05	1.07E-06	0.00E+00
6012	457503.4	3768792	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.09E-06	0.00E+00
6013	457513.4	3768792	0.00037	1.90E-05	0.00E+00	3.70E-04	1.90E-05	0.00E+00	1.11E-04	3.41E-06	0.00E+00	4.20E-05	1.10E-06	0.00E+00
6014	457523.3	3768792	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.26E-05	1.12E-06	0.00E+00
6015	457533.3	3768792	0.000381	1.95E-05	0.00E+00	3.81E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
6016	457543.3	3768792	0.000386	1.98E-05	0.00E+00	3.86E-04	1.98E-05	0.00E+00	1.16E-04	3.56E-06	0.00E+00	4.38E-05	1.15E-06	0.00E+00
6017	457553.3	3768792	0.000392	2.01E-05	0.00E+00	3.92E-04	2.01E-05	0.00E+00	1.18E-04	3.62E-06	0.00E+00	4.45E-05	1.17E-06	0.00E+00
6018	457563.2	3768792	0.000399	2.04E-05	0.00E+00	3.99E-04	2.04E-05	0.00E+00	1.19E-04	3.68E-06	0.00E+00	4.52E-05	1.19E-06	0.00E+00
6019	457573.2	3768792	0.000405	2.08E-05	0.00E+00	4.05E-04	2.08E-05	0.00E+00	1.21E-04	3.74E-06	0.00E+00	4.60E-05	1.21E-06	0.00E+00
6020	457583.2	3768792	0.000412	2.11E-05	0.00E+00	4.12E-04	2.11E-05	0.00E+00	1.24E-04	3.80E-06	0.00E+00	4.68E-05	1.23E-06	0.00E+00
6021	457593.1	3768792	0.00042	2.15E-05	0.00E+00	4.20E-04	2.15E-05	0.00E+00	1.26E-04	3.87E-06	0.00E+00	4.76E-05	1.25E-06	0.00E+00
6022	457603.1	3768792	0.000427	2.19E-05	0.00E+00	4.27E-04	2.19E-05	0.00E+00	1.28E-04	3.93E-06	0.00E+00	4.84E-05	1.27E-06	0.00E+00
6023	457613.1	3768792	0.000433	2.22E-05	0.00E+00	4.33E-04	2.22E-05	0.00E+00	1.30E-04	3.99E-06	0.00E+00	4.91E-05	1.29E-06	0.00E+00
6024	457623	3768792	0.00044	2.25E-05	0.00E+00	4.40E-04	2.25E-05	0.00E+00	1.32E-04	4.05E-06	0.00E+00	4.99E-05	1.31E-06	0.00E+00
6025	457633	3768792	0.000447	2.29E-05	0.00E+00	4.47E-04	2.29E-05	0.00E+00	1.34E-04	4.12E-06	0.00E+00	5.07E-05	1.33E-06	0.00E+00
6026	457643	3768792	0.000456	2.34E-05	0.00E+00	4.56E-04	2.34E-05	0.00E+00	1.36E-04	4.20E-06	0.00E+00	5.17E-05	1.36E-06	0.00E+00
6027	457653	3768792	0.000465	2.38E-05	0.00E+00	4.65E-04	2.38E-05	0.00E+00	1.39E-04	4.28E-06	0.00E+00	5.27E-05	1.38E-06	0.00E+00
6028	457662.9	3768792	0.000474	2.43E-05	0.00E+00	4.74E-04	2.43E-05	0.00E+00	1.42E-04	4.37E-06	0.00E+00	5.38E-05	1.41E-06	0.00E+00
6029	457672.9	3768792	0.000483	2.48E-05	0.00E+00	4.83E-04	2.48E-05	0.00E+00	1.45E-04	4.45E-06	0.00E+00	5.48E-05	1.44E-06	0.00E+00
6030	457682.9	3768792	0.000493	2.53E-05	0.00E+00	4.93E-04	2.53E-05	0.00E+00	1.48E-04	4.54E-06	0.00E+00	5.59E-05	1.47E-06	0.00E+00
6031	457692.8	3768792	0.000503	2.58E-05	0.00E+00	5.03E-04	2.58E-05	0.00E+00	1.51E-04	4.64E-06	0.00E+00	5.71E-05	1.50E-06	0.00E+00
6032	457702.8	3768792	0.000514	2.63E-05	0.00E+00	5.14E-04	2.63E-05	0.00E+00	1.54E-04	4.74E-06	0.00E+00	5.83E-05	1.53E-06	0.00E+00
6033	457296.4	3768821	0.000272	1.40E-05	0.00E+00	2.72E-04	1.40E-05	0.00E+00	8.15E-05	2.51E-06	0.00E+00	3.09E-05	8.10E-07	0.00E+00
6034	457287.2	3768817	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.16E-05	2.51E-06	0.00E+00	3.09E-05	8.11E-07	0.00E+00
6035	457278	3768813	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.52E-06	0.00E+00	3.10E-05	8.12E-07	0.00E+00
6036	457268.8	3768809	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.18E-05	2.52E-06	0.00E+00	3.10E-05	8.13E-07	0.00E+00
6037	457259.6	3768806	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.52E-06	0.00E+00	3.10E-05	8.14E-07	0.00E+00
6038	457250.4	3768802	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6039	457241.2	3768798	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.16E-07	0.00E+00
6040	457232	3768794	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.22E-05	2.53E-06	0.00E+00	3.11E-05	8.17E-07	0.00E+00
6041	457222.8	3768791	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.23E-05	2.53E-06	0.00E+00	3.12E-05	8.17E-07	0.00E+00
6042	457213.7	3768787	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.23E-05	2.53E-06	0.00E+00	3.12E-05	8.18E-07	0.00E+00
6043	457204.5	3768783	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.24E-05	2.54E-06	0.00E+00	3.12E-05	8.19E-07	0.00E+00
6044	457195.3	3768779	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.25E-05	2.54E-06	0.00E+00	3.13E-05	8.20E-07	0.00E+00
6045	457186.1	3768775	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.26E-05	2.54E-06	0.00E+00	3.13E-05	8.20E-07	0.00E+00

6046	457176.9	3768772	0.000278	1.43E-05	0.00E+00	2.78E-04	1.43E-05	0.00E+00	8.33E-05	2.56E-06	0.00E+00	3.15E-05	8.27E-07	0.00E+00
6047	457167.7	3768768	0.000278	1.42E-05	0.00E+00	2.78E-04	1.42E-05	0.00E+00	8.32E-05	2.56E-06	0.00E+00	3.15E-05	8.27E-07	0.00E+00
6048	457158.5	3768764	0.000278	1.42E-05	0.00E+00	2.78E-04	1.42E-05	0.00E+00	8.31E-05	2.56E-06	0.00E+00	3.15E-05	8.26E-07	0.00E+00
6049	457149.3	3768760	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.31E-05	2.56E-06	0.00E+00	3.15E-05	8.25E-07	0.00E+00
6050	457140.1	3768757	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.30E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
6051	457130.9	3768753	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.23E-07	0.00E+00
6052	457121.7	3768749	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.14E-05	8.22E-07	0.00E+00
6053	457112.6	3768745	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.26E-05	2.54E-06	0.00E+00	3.13E-05	8.21E-07	0.00E+00
6054	457103.4	3768741	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.25E-05	2.54E-06	0.00E+00	3.12E-05	8.19E-07	0.00E+00
6055	457094.2	3768738	0.000275	1.41E-05	0.00E+00	2.75E-04	1.41E-05	0.00E+00	8.23E-05	2.53E-06	0.00E+00	3.12E-05	8.18E-07	0.00E+00
6056	457085	3768734	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.16E-07	0.00E+00
6057	457075.8	3768730	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.19E-05	2.52E-06	0.00E+00	3.10E-05	8.14E-07	0.00E+00
6058	457066.6	3768726	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.52E-06	0.00E+00	3.10E-05	8.12E-07	0.00E+00
6059	457057.4	3768722	0.000272	1.40E-05	0.00E+00	2.72E-04	1.40E-05	0.00E+00	8.15E-05	2.51E-06	0.00E+00	3.09E-05	8.10E-07	0.00E+00
6060	457048.2	3768719	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.12E-05	2.50E-06	0.00E+00	3.08E-05	8.07E-07	0.00E+00
6061	457039	3768715	0.00027	1.39E-05	0.00E+00	2.70E-04	1.39E-05	0.00E+00	8.10E-05	2.49E-06	0.00E+00	3.07E-05	8.04E-07	0.00E+00
6062	457029.8	3768711	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.07E-05	2.48E-06	0.00E+00	3.06E-05	8.02E-07	0.00E+00
6063	457020.6	3768707	0.000268	1.38E-05	0.00E+00	2.68E-04	1.38E-05	0.00E+00	8.04E-05	2.47E-06	0.00E+00	3.05E-05	7.99E-07	0.00E+00
6064	457011.4	3768704	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.01E-05	2.46E-06	0.00E+00	3.03E-05	7.96E-07	0.00E+00
6065	457002.3	3768700	0.000266	1.37E-05	0.00E+00	2.66E-04	1.37E-05	0.00E+00	7.98E-05	2.46E-06	0.00E+00	3.02E-05	7.93E-07	0.00E+00
6066	456993.1	3768696	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.94E-05	2.44E-06	0.00E+00	3.01E-05	7.89E-07	0.00E+00
6067	456983.9	3768692	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.91E-05	2.43E-06	0.00E+00	2.99E-05	7.85E-07	0.00E+00
6068	456974.7	3768688	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.87E-05	2.42E-06	0.00E+00	2.98E-05	7.82E-07	0.00E+00
6069	456965.5	3768685	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.83E-05	2.41E-06	0.00E+00	2.97E-05	7.78E-07	0.00E+00
6070	456956.3	3768681	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.79E-05	2.40E-06	0.00E+00	2.95E-05	7.74E-07	0.00E+00
6071	456947.1	3768677	0.000259	1.33E-05	0.00E+00	2.59E-04	1.33E-05	0.00E+00	7.75E-05	2.39E-06	0.00E+00	2.94E-05	7.70E-07	0.00E+00
6072	456937.9	3768673	0.000257	1.32E-05	0.00E+00	2.57E-04	1.32E-05	0.00E+00	7.71E-05	2.37E-06	0.00E+00	2.92E-05	7.66E-07	0.00E+00
6073	456928.7	3768670	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.66E-05	2.36E-06	0.00E+00	2.90E-05	7.61E-07	0.00E+00
6074	456897.3	3768649	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.61E-05	2.34E-06	0.00E+00	2.88E-05	7.56E-07	0.00E+00
6075	456893.4	3768640	0.000257	1.32E-05	0.00E+00	2.57E-04	1.32E-05	0.00E+00	7.70E-05	2.37E-06	0.00E+00	2.91E-05	7.65E-07	0.00E+00
6076	456889.6	3768631	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.78E-05	2.39E-06	0.00E+00	2.95E-05	7.73E-07	0.00E+00
6077	456885.7	3768622	0.000262	1.35E-05	0.00E+00	2.62E-04	1.35E-05	0.00E+00	7.86E-05	2.42E-06	0.00E+00	2.98E-05	7.81E-07	0.00E+00
6078	456881.9	3768612	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.94E-05	2.44E-06	0.00E+00	3.01E-05	7.89E-07	0.00E+00
6079	456878	3768603	0.000268	1.37E-05	0.00E+00	2.68E-04	1.37E-05	0.00E+00	8.03E-05	2.47E-06	0.00E+00	3.04E-05	7.98E-07	0.00E+00
6080	456874.1	3768594	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.11E-05	2.50E-06	0.00E+00	3.07E-05	8.06E-07	0.00E+00
6081	456870.3	3768585	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.52E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6082	456866.4	3768576	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
6083	456862.6	3768567	0.00028	1.43E-05	0.00E+00	2.80E-04	1.43E-05	0.00E+00	8.38E-05	2.58E-06	0.00E+00	3.17E-05	8.32E-07	0.00E+00
6084	456858.7	3768557	0.000283	1.45E-05	0.00E+00	2.83E-04	1.45E-05	0.00E+00	8.47E-05	2.61E-06	0.00E+00	3.21E-05	8.41E-07	0.00E+00
6085	456854.9	3768548	0.000286	1.46E-05	0.00E+00	2.86E-04	1.46E-05	0.00E+00	8.56E-05	2.63E-06	0.00E+00	3.24E-05	8.50E-07	0.00E+00
6086	456851	3768539	0.000289	1.48E-05	0.00E+00	2.89E-04	1.48E-05	0.00E+00	8.65E-05	2.66E-06	0.00E+00	3.28E-05	8.59E-07	0.00E+00
6087	456847.1	3768530	0.000292	1.50E-05	0.00E+00	2.92E-04	1.50E-05	0.00E+00	8.74E-05	2.69E-06	0.00E+00	3.31E-05	8.68E-07	0.00E+00
6088	456843.3	3768521	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.84E-05	2.72E-06	0.00E+00	3.35E-05	8.78E-07	0.00E+00
6089	456839.4	3768512	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.93E-05	2.75E-06	0.00E+00	3.38E-05	8.88E-07	0.00E+00
6090	456835.6	3768502	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.97E-07	0.00E+00
6091	456831.7	3768493	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.13E-05	2.81E-06	0.00E+00	3.46E-05	9.07E-07	0.00E+00
6092	456827.9	3768484	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
6093	456824	3768475	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.33E-05	2.87E-06	0.00E+00	3.54E-05	9.27E-07	0.00E+00
6094	456820.1	3768466	0.000315	1.62E-05	0.00E+00	3.15E-04	1.62E-05	0.00E+00	9.44E-05	2.90E-06	0.00E+00	3.57E-05	9.38E-07	0.00E+00
6095	456816.3	3768457	0.000319	1.63E-05	0.00E+00	3.19E-04	1.63E-05	0.00E+00	9.54E-05	2.94E-06	0.00E+00	3.61E-05	9.48E-07	0.00E+00
6096	456800.9	3768420	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.98E-05	3.07E-06	0.00E+00	3.78E-05	9.91E-07	0.00E+00
6097	456797	3768411	0.000337	1.73E-05	0.00E+00	3.37E-04	1.73E-05	0.00E+00	1.01E-04	3.11E-06	0.00E+00	3.82E-05	1.00E-06	0.00E+00
6098	456793.1	3768402	0.000341	1.75E-05	0.00E+00	3.41E-04	1.75E-05	0.00E+00	1.02E-04	3.14E-06	0.00E+00	3.87E-05	1.01E-06	0.00E+00
6099	456789.3	3768393	0.000345	1.77E-05	0.00E+00	3.45E-04	1.77E-05	0.00E+00	1.03E-04	3.18E-06	0.00E+00	3.91E-05	1.03E-06	0.00E+00
6100	456785.4	3768383	0.000348	1.79E-05	0.00E+00	3.48E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.95E-05	1.04E-06	0.00E+00
6101	456781.6	3768374	0.000352	1.81E-05	0.00E+00	3.52E-04	1.81E-05	0.00E+00	1.06E-04	3.25E-06	0.00E+00	4.00E-05	1.05E-06	0.00E+00
6102	456777.7	3768365	0.000356	1.83E-05	0.00E+00	3.56E-04	1.83E-05	0.00E+00	1.07E-04	3.29E-06	0.00E+00	4.04E-05	1.06E-06	0.00E+00
6103	456773.9	3768356	0.000361	1.85E-05	0.00E+00	3.61E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
6104	456770	3768347	0.000365	1.87E-05	0.00E+00	3.65E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.14E-05	1.08E-06	0.00E+00
6105	456766.1	3768338	0.000369	1.89E-05	0.00E+00	3.69E-04	1.89E-05	0.00E+00	1.10E-04	3.40E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
6106	456762.3	3768328	0.000373	1.91E-05	0.00E+00	3.73E-04	1.91E-05	0.00E+00	1.12E-04	3.44E-06	0.00E+00	4.23E-05	1.11E-06	0.00E+00
6107	456758.4	3768319	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.28E-05	1.12E-06	0.00E+00
6108	456754.6	3768310	0.000381	1.95E-05	0.00E+00	3.81E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
6109	456750.7	3768301	0.000385	1.97E-05	0.00E+00	3.85E-04	1.97E-05	0.00E+00	1.15E-04	3.55E-06	0.00E+00	4.37E-05	1.15E-06	0.00E+00
6110	456746.8	3768292	0.000389	2.00E-05	0.00E+00	3.89E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
6111	456743	3768283	0.000394	2.02E-05	0.00E+00	3.94E-04	2.02E-05	0.00E+00	1.18E-04	3.63E-06	0.00E+00	4.47E-05	1.17E-06	0.00E+00
6112	456739.1	3768273	0.000398	2.04E-05	0.00E+00	3.98E-04	2.04E-05	0.00E+00	1.19E-04	3.67E-06	0.00E+00	4.51E-05	1.18E-06	0.00E+00
6113	456735.3	3768264	0.000402	2.06E-05	0.00E+00	4.02E-04	2.06E-05	0.00E+00	1.20E-04	3.70E-06	0.00E+00	4.56E-05	1.20E-06	0.00E+00
6114	456731.4	3768255	0.000406	2.08E-05	0.00E+00	4.06E-04	2.08E-05	0.00E+00	1.22E-04	3.74E-06	0.00E+00	4.61E-05	1.21E-06	0.00E+00
6115	456727.6	3768246	0.00041	2.10E-05	0.00E+00	4.10E-04	2.10E-05	0.00E+00	1.23E-04	3.78E-06	0.00E+00	4.65E-05	1.22E-06	0.00E+00
6116	457333.9	3768832	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.53E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6117	457343.9	3768832	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.14E-05	8.23E-07	0.00E+00
6118	457353.9	3768832	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.36E-05	2.57E-06	0.00E+00	3.17E-05	8.30E-07	0.00E+00
6119	457363.8	3768832	0.000282	1.44E-05	0.00E+00	2.82E-04	1.44E-05	0.00E+00	8.43E-05	2.60E-06	0.00E+00	3.20E-05	8.38E-07	0.00E+00
6120	457373.8	3768832	0.000284	1.46E-05	0.00E+00	2.84E-04	1.46E-05	0.00E+00	8.51E-05	2.62E-06	0.00E+00	3.23E-05	8.46E-07	0.00E+00
6121	457383.8	3768832	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.59E-05	2.65E-06	0.00E+00	3.26E-05	8.54E-07	0.00E+00
6122	457393.7	3768832	0.00029	1.49E-05	0.00E+00	2.90E-04	1.49E-05	0.00E+00	8.68E-05	2.67E-06	0.00E+00	3.29E-05	8.62E-07	0.00E+00
6123	457403.7	3768832	0.000293	1.50E-05	0.00E+00	2.93E-04	1.50E-05	0.00E+00	8.77E-05	2.70E-06	0.00E+00	3.32E-05	8.71E-07	0.00E+00
6124	457413.7	3768832	0.000296	1.52E-05	0.00E+00	2.96E-04	1.52E-05	0.00E+00	8.86E-05	2.73E-06	0.00E+00	3.36E-05	8.80E-07	0.00E+00
6125	457423.7	3768832	0.000299	1.53E-05	0.00E+00	2.99E-04	1.53E-05	0.00E+00	8.95E-05	2.75E-06	0.00E+00	3.39E-05	8.89E-07	0.00E+00
6126	457433.6	3768832	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.03E-05	2.78E-06	0.00E+00	3.42E-05	8.97E-07	0.00E+00
6127	457443.6	3768832	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.45E-05	9.06E-07	0.00E+00
6128	457453.6	3768832	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.21E-05	2.83E-06	0.00E+00	3.49E-05	9.15E-07	0.00E+00
6129	457463.5	3768832	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.32E-05	2.87E-06	0.00E+00	3.53E-05	9.26E-07	0.00E+00
6130	457473.5	3768832	0.000315	1.61E-05	0.00E+00	3.15E-04	1.61E-05	0.00E+00	9.43E-05	2.90E-06	0.00E+00	3.57E-05	9.37E-07	0.00E+00
6131	457483.5	3768832	0.000319	1.63E-05	0.00E+00	3.19E-04	1.63E-05	0.00E+00	9.54E-05	2.94E-06	0.00E+00	3.62E-05	9.48E-07	0.00E+00
6132	457493.4	3768832	0.000323	1.65E-05	0.00E+00	3.23E-04	1.65E-05	0.00E+00	9.66E-05	2.97E-06	0.00E+00	3.66E-05	9.60E-07	0.00E+00
6133	457503.4	3768832	0.000327	1.68E-05	0.00E+00	3.27E-04	1.68E-05	0.00E+00	9.79E-05	3.01E-06	0.00E+00	3.71E-05	9.72E-07	0.00E+00
6134	457513.4	3768832	0.000331	1.70E-05	0.00E+00	3.31E-04	1.70E-05	0.00E+00	9.91E-05	3.05E-06	0.00E+00	3.76E-05	9.85E-07	0.00E+00
6135	457523.4	3768832	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.98E-07	0.00E+00
6136	457533.3	3768832	0.00034	1.74E-05	0.00E+00	3.40E-04	1.74E-05	0.00E+00	1.02E-04	3.13E-06	0.00E+00	3.85E-05	1.01E-06	0.00E+00
6137	457543.3	3768832	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
6138	457553.3	3768832	0.000348	1.79E-05	0.00E+00	3.48E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.95E-05	1.04E-06	0.00E+00
6139	457563.2	3768832	0.000352	1.81E-05	0.00E+00	3.52E-04	1.81E-05	0.00E+00	1.06E-04	3.25E-06	0.00E+00	4.00E-05	1.05E-06	0.00E+00
6140	457573.2	3768832	0.000357	1.83E-05	0.00E+00	3.57E-04	1.83E-05	0.00E+00	1.07E-04	3.29E-06	0.00E+00	4.05E-05	1.06E-06	0.00E+00
6141	457583.2	3768832	0.000363	1.86E-05	0.00E+00	3.63E-04	1.86E-05	0.00E+00	1.09E-04	3.34E-06	0.00E+00	4.12E-05	1.08E-06	0.00E+00

6142	457593.2	3768832	0.000368	1.89E-05	0.00E+00	3.68E-04	1.89E-05	0.00E+00	1.10E-04	3.40E-06	0.00E+00	4.18E-05	1.10E-06	0.00E+00
6143	457603.1	3768832	0.000374	1.92E-05	0.00E+00	3.74E-04	1.92E-05	0.00E+00	1.12E-04	3.45E-06	0.00E+00	4.25E-05	1.11E-06	0.00E+00
6144	457613.1	3768832	0.00038	1.95E-05	0.00E+00	3.80E-04	1.95E-05	0.00E+00	1.14E-04	3.51E-06	0.00E+00	4.32E-05	1.13E-06	0.00E+00
6145	457623.1	3768832	0.000387	1.98E-05	0.00E+00	3.87E-04	1.98E-05	0.00E+00	1.16E-04	3.57E-06	0.00E+00	4.39E-05	1.15E-06	0.00E+00
6146	457633	3768832	0.000393	2.02E-05	0.00E+00	3.93E-04	2.02E-05	0.00E+00	1.18E-04	3.63E-06	0.00E+00	4.46E-05	1.17E-06	0.00E+00
6147	457643	3768832	0.0004	2.05E-05	0.00E+00	4.00E-04	2.05E-05	0.00E+00	1.20E-04	3.69E-06	0.00E+00	4.54E-05	1.19E-06	0.00E+00
6148	457653	3768832	0.000407	2.09E-05	0.00E+00	4.07E-04	2.09E-05	0.00E+00	1.22E-04	3.75E-06	0.00E+00	4.62E-05	1.21E-06	0.00E+00
6149	457662.9	3768832	0.000414	2.12E-05	0.00E+00	4.14E-04	2.12E-05	0.00E+00	1.24E-04	3.82E-06	0.00E+00	4.70E-05	1.23E-06	0.00E+00
6150	457672.9	3768832	0.000422	2.16E-05	0.00E+00	4.22E-04	2.16E-05	0.00E+00	1.26E-04	3.89E-06	0.00E+00	4.78E-05	1.25E-06	0.00E+00
6151	457682.9	3768832	0.00043	2.20E-05	0.00E+00	4.30E-04	2.20E-05	0.00E+00	1.29E-04	3.96E-06	0.00E+00	4.87E-05	1.28E-06	0.00E+00
6152	457692.9	3768832	0.000437	2.24E-05	0.00E+00	4.37E-04	2.24E-05	0.00E+00	1.31E-04	4.03E-06	0.00E+00	4.96E-05	1.30E-06	0.00E+00
6153	457702.8	3768832	0.000445	2.28E-05	0.00E+00	4.45E-04	2.28E-05	0.00E+00	1.33E-04	4.10E-06	0.00E+00	5.04E-05	1.32E-06	0.00E+00
6154	457296.4	3768861	0.000249	1.27E-05	0.00E+00	2.49E-04	1.27E-05	0.00E+00	7.45E-05	2.29E-06	0.00E+00	2.82E-05	7.40E-07	0.00E+00
6155	457287.2	3768857	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.45E-05	2.29E-06	0.00E+00	2.82E-05	7.41E-07	0.00E+00
6156	457278	3768853	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.83E-05	7.41E-07	0.00E+00
6157	457268.7	3768849	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.47E-05	2.30E-06	0.00E+00	2.83E-05	7.42E-07	0.00E+00
6158	457259.5	3768846	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.48E-05	2.30E-06	0.00E+00	2.83E-05	7.43E-07	0.00E+00
6159	457250.3	3768842	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.49E-05	2.31E-06	0.00E+00	2.84E-05	7.44E-07	0.00E+00
6160	457241.1	3768838	0.000251	1.28E-05	0.00E+00	2.51E-04	1.28E-05	0.00E+00	7.50E-05	2.31E-06	0.00E+00	2.84E-05	7.45E-07	0.00E+00
6161	457231.9	3768834	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.51E-05	2.31E-06	0.00E+00	2.85E-05	7.47E-07	0.00E+00
6162	457222.7	3768831	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.52E-05	2.32E-06	0.00E+00	2.85E-05	7.47E-07	0.00E+00
6163	457213.5	3768827	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.53E-05	2.32E-06	0.00E+00	2.85E-05	7.48E-07	0.00E+00
6164	457204.3	3768823	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.54E-05	2.32E-06	0.00E+00	2.85E-05	7.49E-07	0.00E+00
6165	457195.1	3768819	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.54E-05	2.32E-06	0.00E+00	2.86E-05	7.49E-07	0.00E+00
6166	457185.9	3768815	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.55E-05	2.32E-06	0.00E+00	2.86E-05	7.50E-07	0.00E+00
6167	457176.7	3768812	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.56E-05	2.33E-06	0.00E+00	2.86E-05	7.51E-07	0.00E+00
6168	457167.5	3768808	0.000253	1.29E-05	0.00E+00	2.53E-04	1.29E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
6169	457158.3	3768804	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
6170	457149.1	3768800	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.63E-05	2.35E-06	0.00E+00	2.89E-05	7.58E-07	0.00E+00
6171	457139.9	3768796	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.62E-05	2.35E-06	0.00E+00	2.89E-05	7.57E-07	0.00E+00
6172	457130.7	3768793	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.61E-05	2.34E-06	0.00E+00	2.88E-05	7.57E-07	0.00E+00
6173	457121.5	3768789	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.61E-05	2.34E-06	0.00E+00	2.88E-05	7.56E-07	0.00E+00
6174	457112.3	3768785	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.60E-05	2.34E-06	0.00E+00	2.88E-05	7.55E-07	0.00E+00
6175	457103.1	3768781	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.59E-05	2.34E-06	0.00E+00	2.88E-05	7.54E-07	0.00E+00
6176	457093.9	3768777	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.58E-05	2.33E-06	0.00E+00	2.87E-05	7.53E-07	0.00E+00
6177	457084.7	3768774	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
6178	457075.5	3768770	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.55E-05	2.33E-06	0.00E+00	2.86E-05	7.51E-07	0.00E+00
6179	457066.3	3768766	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.54E-05	2.32E-06	0.00E+00	2.86E-05	7.49E-07	0.00E+00
6180	457057.1	3768762	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.52E-05	2.32E-06	0.00E+00	2.85E-05	7.48E-07	0.00E+00
6181	457047.9	3768759	0.000251	1.28E-05	0.00E+00	2.51E-04	1.28E-05	0.00E+00	7.51E-05	2.31E-06	0.00E+00	2.84E-05	7.46E-07	0.00E+00
6182	457038.6	3768755	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.48E-05	2.30E-06	0.00E+00	2.84E-05	7.44E-07	0.00E+00
6183	457029.4	3768751	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.83E-05	7.42E-07	0.00E+00
6184	457020.2	3768747	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.44E-05	2.29E-06	0.00E+00	2.82E-05	7.39E-07	0.00E+00
6185	457011	3768743	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.42E-05	2.28E-06	0.00E+00	2.81E-05	7.37E-07	0.00E+00
6186	457001.8	3768740	0.000247	1.26E-05	0.00E+00	2.47E-04	1.26E-05	0.00E+00	7.39E-05	2.27E-06	0.00E+00	2.80E-05	7.34E-07	0.00E+00
6187	456992.6	3768736	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.36E-05	2.27E-06	0.00E+00	2.79E-05	7.32E-07	0.00E+00
6188	456983.4	3768732	0.000245	1.26E-05	0.00E+00	2.45E-04	1.26E-05	0.00E+00	7.33E-05	2.26E-06	0.00E+00	2.78E-05	7.29E-07	0.00E+00
6189	456974.2	3768728	0.000244	1.25E-05	0.00E+00	2.44E-04	1.25E-05	0.00E+00	7.31E-05	2.25E-06	0.00E+00	2.77E-05	7.26E-07	0.00E+00
6190	456965	3768724	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.27E-05	2.24E-06	0.00E+00	2.76E-05	7.23E-07	0.00E+00
6191	456955.8	3768721	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.24E-05	2.23E-06	0.00E+00	2.74E-05	7.20E-07	0.00E+00
6192	456946.6	3768717	0.000241	1.23E-05	0.00E+00	2.41E-04	1.23E-05	0.00E+00	7.21E-05	2.22E-06	0.00E+00	2.73E-05	7.16E-07	0.00E+00
6193	456937.4	3768713	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.18E-05	2.21E-06	0.00E+00	2.72E-05	7.13E-07	0.00E+00
6194	456928.2	3768709	0.000238	1.22E-05	0.00E+00	2.38E-04	1.22E-05	0.00E+00	7.14E-05	2.20E-06	0.00E+00	2.70E-05	7.09E-07	0.00E+00
6195	456891.4	3768694	0.000233	1.20E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.99E-05	2.15E-06	0.00E+00	2.65E-05	6.95E-07	0.00E+00
6196	456882.2	3768690	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.96E-05	2.14E-06	0.00E+00	2.63E-05	6.91E-07	0.00E+00
6197	456869.1	3768677	0.000233	1.20E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.99E-05	2.15E-06	0.00E+00	2.65E-05	6.94E-07	0.00E+00
6198	456865.3	3768668	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.06E-05	2.17E-06	0.00E+00	2.67E-05	7.01E-07	0.00E+00
6199	456861.4	3768659	0.000238	1.22E-05	0.00E+00	2.38E-04	1.22E-05	0.00E+00	7.13E-05	2.19E-06	0.00E+00	2.70E-05	7.08E-07	0.00E+00
6200	456857.5	3768650	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.20E-05	2.22E-06	0.00E+00	2.73E-05	7.15E-07	0.00E+00
6201	456853.7	3768641	0.000243	1.24E-05	0.00E+00	2.43E-04	1.24E-05	0.00E+00	7.27E-05	2.24E-06	0.00E+00	2.75E-05	7.22E-07	0.00E+00
6202	456849.8	3768632	0.000245	1.26E-05	0.00E+00	2.45E-04	1.26E-05	0.00E+00	7.34E-05	2.26E-06	0.00E+00	2.78E-05	7.30E-07	0.00E+00
6203	456845.9	3768622	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.42E-05	2.28E-06	0.00E+00	2.81E-05	7.37E-07	0.00E+00
6204	456842.1	3768613	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.49E-05	2.31E-06	0.00E+00	2.84E-05	7.44E-07	0.00E+00
6205	456838.2	3768604	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
6206	456834.4	3768595	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.64E-05	2.35E-06	0.00E+00	2.90E-05	7.59E-07	0.00E+00
6207	456830.5	3768586	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.72E-05	2.38E-06	0.00E+00	2.92E-05	7.67E-07	0.00E+00
6208	456826.6	3768576	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.80E-05	2.40E-06	0.00E+00	2.95E-05	7.75E-07	0.00E+00
6209	456822.8	3768567	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.88E-05	2.42E-06	0.00E+00	2.98E-05	7.83E-07	0.00E+00
6210	456818.9	3768558	0.000266	1.36E-05	0.00E+00	2.66E-04	1.36E-05	0.00E+00	7.96E-05	2.45E-06	0.00E+00	3.01E-05	7.91E-07	0.00E+00
6211	456815	3768549	0.000268	1.38E-05	0.00E+00	2.68E-04	1.38E-05	0.00E+00	8.04E-05	2.47E-06	0.00E+00	3.05E-05	7.99E-07	0.00E+00
6212	456811.2	3768540	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.12E-05	2.50E-06	0.00E+00	3.08E-05	8.07E-07	0.00E+00
6213	456807.3	3768531	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6214	456803.4	3768521	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
6215	456799.6	3768512	0.00028	1.43E-05	0.00E+00	2.80E-04	1.43E-05	0.00E+00	8.38E-05	2.58E-06	0.00E+00	3.17E-05	8.32E-07	0.00E+00
6216	456795.7	3768503	0.000283	1.45E-05	0.00E+00	2.83E-04	1.45E-05	0.00E+00	8.46E-05	2.60E-06	0.00E+00	3.21E-05	8.41E-07	0.00E+00
6217	456791.9	3768494	0.000286	1.46E-05	0.00E+00	2.86E-04	1.46E-05	0.00E+00	8.55E-05	2.63E-06	0.00E+00	3.24E-05	8.50E-07	0.00E+00
6218	456788	3768485	0.000288	1.48E-05	0.00E+00	2.88E-04	1.48E-05	0.00E+00	8.64E-05	2.66E-06	0.00E+00	3.27E-05	8.58E-07	0.00E+00
6219	456784.1	3768476	0.000292	1.49E-05	0.00E+00	2.92E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.67E-07	0.00E+00
6220	456780.3	3768466	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.82E-05	2.72E-06	0.00E+00	3.34E-05	8.77E-07	0.00E+00
6221	456776.4	3768457	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.92E-05	2.74E-06	0.00E+00	3.38E-05	8.86E-07	0.00E+00
6222	456761	3768421	0.000311	1.59E-05	0.00E+00	3.11E-04	1.59E-05	0.00E+00	9.31E-05	2.86E-06	0.00E+00	3.53E-05	9.25E-07	0.00E+00
6223	456757.1	3768411	0.000314	1.61E-05	0.00E+00	3.14E-04	1.61E-05	0.00E+00	9.41E-05	2.89E-06	0.00E+00	3.56E-05	9.35E-07	0.00E+00
6224	456753.2	3768402	0.000317	1.63E-05	0.00E+00	3.17E-04	1.63E-05	0.00E+00	9.51E-05	2.93E-06	0.00E+00	3.60E-05	9.45E-07	0.00E+00
6225	456749.4	3768393	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.61E-05	2.96E-06	0.00E+00	3.64E-05	9.55E-07	0.00E+00
6226	456745.5	3768384	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.72E-05	2.99E-06	0.00E+00	3.68E-05	9.65E-07	0.00E+00
6227	456741.6	3768375	0.000328	1.68E-05	0.00E+00	3.28E-04	1.68E-05	0.00E+00	9.82E-05	3.02E-06	0.00E+00	3.72E-05	9.76E-07	0.00E+00
6228	456737.8	3768366	0.000331	1.70E-05	0.00E+00	3.31E-04	1.70E-05	0.00E+00	9.93E-05	3.05E-06	0.00E+00	3.76E-05	9.86E-07	0.00E+00
6229	456733.9	3768356	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.97E-07	0.00E+00
6230	456730.1	3768347	0.000338	1.74E-05	0.00E+00	3.38E-04	1.74E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.84E-05	1.01E-06	0.00E+00
6231	456726.2	3768338	0.000342	1.75E-05	0.00E+00	3.42E-04	1.75E-05	0.00E+00	1.02E-04	3.15E-06	0.00E+00	3.88E-05	1.02E-06	0.00E+00
6232	456722.3	3768329	0.000346	1.77E-05	0.00E+00	3.46E-04	1.77E-05	0.00E+00	1.04E-04	3.19E-06	0.00E+00	3.92E-05	1.03E-06	0.00E+00
6233	456718.5	3768320	0.000349	1.79E-05	0.00E+00	3.49E-04	1.79E-05	0.00E+00	1.05E-04	3.22E-06	0.00E+00	3.96E-05	1.04E-06	0.00E+00
6234	456714.6	3768310	0.000353	1.81E-05	0.00E+00	3.53E-04	1.81E-05	0.00E+00	1.06E-04	3.25E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
6235	456710.7	3768301	0.000357	1.83E-05	0.00E+00	3.57E-04	1.83E-05	0.00E+00	1.07E-04	3.29E-06	0.00E+00	4.05E-05	1.06E-06	0.00E+00
6236	456706.9	3768292	0.00036	1.85E-05	0.00E+00	3.60E-04	1.85E-05	0.00E+00	1.08E-04	3.32E-06	0.00E+00	4.09E-05	1.07E-06	0.00E+00
6237	456703	3768283	0.000364	1.87E-05	0.00E+00	3.64E-04	1.87E-05	0.00E+00	1.09E-04	3.35E-06	0.00E+00	4.13E-05	1.08E-06	0.00E+00

6238	456699.2	3768274	0.000368	1.88E-05	0.00E+00	3.68E-04	1.88E-05	0.00E+00	1.10E-04	3.39E-06	0.00E+00	4.17E-05	1.09E-06	0.00E+00
6239	456695.3	3768265	0.000371	1.90E-05	0.00E+00	3.71E-04	1.90E-05	0.00E+00	1.11E-04	3.42E-06	0.00E+00	4.21E-05	1.10E-06	0.00E+00
6240	456691.4	3768255	0.000375	1.92E-05	0.00E+00	3.75E-04	1.92E-05	0.00E+00	1.12E-04	3.46E-06	0.00E+00	4.25E-05	1.12E-06	0.00E+00
6241	456687.6	3768246	0.000379	1.94E-05	0.00E+00	3.79E-04	1.94E-05	0.00E+00	1.13E-04	3.49E-06	0.00E+00	4.30E-05	1.13E-06	0.00E+00
6242	457333.9	3768872	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.47E-05	2.30E-06	0.00E+00	2.83E-05	7.43E-07	0.00E+00
6243	457343.9	3768872	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.54E-05	2.32E-06	0.00E+00	2.86E-05	7.49E-07	0.00E+00
6244	457353.9	3768872	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.60E-05	2.34E-06	0.00E+00	2.88E-05	7.55E-07	0.00E+00
6245	457363.9	3768872	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.67E-05	2.36E-06	0.00E+00	2.90E-05	7.62E-07	0.00E+00
6246	457373.8	3768872	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.73E-05	2.38E-06	0.00E+00	2.93E-05	7.68E-07	0.00E+00
6247	457383.8	3768872	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.79E-05	2.40E-06	0.00E+00	2.95E-05	7.74E-07	0.00E+00
6248	457393.8	3768872	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.86E-05	2.42E-06	0.00E+00	2.98E-05	7.81E-07	0.00E+00
6249	457403.7	3768872	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.94E-05	2.44E-06	0.00E+00	3.01E-05	7.89E-07	0.00E+00
6250	457413.7	3768872	0.000268	1.37E-05	0.00E+00	2.68E-04	1.37E-05	0.00E+00	8.02E-05	2.47E-06	0.00E+00	3.04E-05	7.96E-07	0.00E+00
6251	457423.7	3768872	0.00027	1.39E-05	0.00E+00	2.70E-04	1.39E-05	0.00E+00	8.10E-05	2.49E-06	0.00E+00	3.07E-05	8.04E-07	0.00E+00
6252	457433.6	3768872	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.18E-05	2.52E-06	0.00E+00	3.10E-05	8.13E-07	0.00E+00
6253	457443.6	3768872	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.27E-05	2.54E-06	0.00E+00	3.13E-05	8.21E-07	0.00E+00
6254	457453.6	3768872	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.35E-05	2.57E-06	0.00E+00	3.16E-05	8.30E-07	0.00E+00
6255	457463.6	3768872	0.000281	1.44E-05	0.00E+00	2.81E-04	1.44E-05	0.00E+00	8.43E-05	2.59E-06	0.00E+00	3.19E-05	8.38E-07	0.00E+00
6256	457473.5	3768872	0.000284	1.46E-05	0.00E+00	2.84E-04	1.46E-05	0.00E+00	8.51E-05	2.62E-06	0.00E+00	3.23E-05	8.46E-07	0.00E+00
6257	457483.5	3768872	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.60E-05	2.65E-06	0.00E+00	3.26E-05	8.55E-07	0.00E+00
6258	457493.5	3768872	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.70E-05	2.68E-06	0.00E+00	3.30E-05	8.65E-07	0.00E+00
6259	457503.4	3768872	0.000294	1.51E-05	0.00E+00	2.94E-04	1.51E-05	0.00E+00	8.81E-05	2.71E-06	0.00E+00	3.34E-05	8.75E-07	0.00E+00
6260	457513.4	3768872	0.000297	1.53E-05	0.00E+00	2.97E-04	1.53E-05	0.00E+00	8.91E-05	2.74E-06	0.00E+00	3.37E-05	8.85E-07	0.00E+00
6261	457523.4	3768872	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.01E-05	2.77E-06	0.00E+00	3.41E-05	8.95E-07	0.00E+00
6262	457533.3	3768872	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.11E-05	2.80E-06	0.00E+00	3.45E-05	9.05E-07	0.00E+00
6263	457543.3	3768872	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.22E-05	2.84E-06	0.00E+00	3.49E-05	9.16E-07	0.00E+00
6264	457553.3	3768872	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.34E-05	2.88E-06	0.00E+00	3.54E-05	9.28E-07	0.00E+00
6265	457563.3	3768872	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.47E-05	2.91E-06	0.00E+00	3.59E-05	9.41E-07	0.00E+00
6266	457573.2	3768872	0.00032	1.64E-05	0.00E+00	3.20E-04	1.64E-05	0.00E+00	9.59E-05	2.95E-06	0.00E+00	3.63E-05	9.53E-07	0.00E+00
6267	457583.2	3768872	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.72E-05	2.99E-06	0.00E+00	3.68E-05	9.65E-07	0.00E+00
6268	457593.2	3768872	0.000329	1.68E-05	0.00E+00	3.29E-04	1.68E-05	0.00E+00	9.84E-05	3.03E-06	0.00E+00	3.73E-05	9.78E-07	0.00E+00
6269	457603.1	3768872	0.000333	1.71E-05	0.00E+00	3.33E-04	1.71E-05	0.00E+00	9.98E-05	3.07E-06	0.00E+00	3.78E-05	9.91E-07	0.00E+00
6270	457613.1	3768872	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.84E-05	1.01E-06	0.00E+00
6271	457623.1	3768872	0.000343	1.76E-05	0.00E+00	3.43E-04	1.76E-05	0.00E+00	1.03E-04	3.16E-06	0.00E+00	3.89E-05	1.02E-06	0.00E+00
6272	457633.1	3768872	0.000348	1.79E-05	0.00E+00	3.48E-04	1.79E-05	0.00E+00	1.04E-04	3.21E-06	0.00E+00	3.95E-05	1.04E-06	0.00E+00
6273	457643	3768872	0.000353	1.81E-05	0.00E+00	3.53E-04	1.81E-05	0.00E+00	1.06E-04	3.26E-06	0.00E+00	4.01E-05	1.05E-06	0.00E+00
6274	457653	3768872	0.000359	1.84E-05	0.00E+00	3.59E-04	1.84E-05	0.00E+00	1.07E-04	3.31E-06	0.00E+00	4.07E-05	1.07E-06	0.00E+00
6275	457663	3768872	0.000364	1.87E-05	0.00E+00	3.64E-04	1.87E-05	0.00E+00	1.09E-04	3.36E-06	0.00E+00	4.13E-05	1.08E-06	0.00E+00
6276	457672.9	3768872	0.00037	1.90E-05	0.00E+00	3.70E-04	1.90E-05	0.00E+00	1.11E-04	3.41E-06	0.00E+00	4.20E-05	1.10E-06	0.00E+00
6277	457682.9	3768872	0.000377	1.93E-05	0.00E+00	3.77E-04	1.93E-05	0.00E+00	1.13E-04	3.47E-06	0.00E+00	4.27E-05	1.12E-06	0.00E+00
6278	457692.9	3768872	0.000383	1.96E-05	0.00E+00	3.83E-04	1.96E-05	0.00E+00	1.15E-04	3.53E-06	0.00E+00	4.35E-05	1.14E-06	0.00E+00
6279	457702.8	3768872	0.00039	2.00E-05	0.00E+00	3.90E-04	2.00E-05	0.00E+00	1.17E-04	3.59E-06	0.00E+00	4.42E-05	1.16E-06	0.00E+00
6280	457296.3	3768901	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.82E-05	2.10E-06	0.00E+00	2.58E-05	6.78E-07	0.00E+00
6281	457287.1	3768897	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.83E-05	2.10E-06	0.00E+00	2.59E-05	6.79E-07	0.00E+00
6282	457277.9	3768893	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.84E-05	2.11E-06	0.00E+00	2.59E-05	6.80E-07	0.00E+00
6283	457268.7	3768889	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.86E-05	2.11E-06	0.00E+00	2.60E-05	6.81E-07	0.00E+00
6284	457259.5	3768886	0.000229	1.18E-05	0.00E+00	2.29E-04	1.18E-05	0.00E+00	6.87E-05	2.11E-06	0.00E+00	2.60E-05	6.82E-07	0.00E+00
6285	457250.3	3768882	0.000229	1.18E-05	0.00E+00	2.29E-04	1.18E-05	0.00E+00	6.87E-05	2.12E-06	0.00E+00	2.60E-05	6.83E-07	0.00E+00
6286	457241.1	3768878	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.84E-07	0.00E+00
6287	457231.8	3768874	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.89E-05	2.12E-06	0.00E+00	2.61E-05	6.84E-07	0.00E+00
6288	457222.6	3768870	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.89E-05	2.12E-06	0.00E+00	2.61E-05	6.85E-07	0.00E+00
6289	457213.4	3768867	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.90E-05	2.12E-06	0.00E+00	2.61E-05	6.86E-07	0.00E+00
6290	457204.2	3768863	0.000231	1.18E-05	0.00E+00	2.31E-04	1.18E-05	0.00E+00	6.91E-05	2.13E-06	0.00E+00	2.62E-05	6.87E-07	0.00E+00
6291	457195	3768859	0.000231	1.19E-05	0.00E+00	2.31E-04	1.19E-05	0.00E+00	6.92E-05	2.13E-06	0.00E+00	2.62E-05	6.88E-07	0.00E+00
6292	457185.8	3768855	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.94E-05	2.13E-06	0.00E+00	2.63E-05	6.89E-07	0.00E+00
6293	457176.5	3768851	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.95E-05	2.14E-06	0.00E+00	2.63E-05	6.90E-07	0.00E+00
6294	457167.3	3768848	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.95E-05	2.14E-06	0.00E+00	2.63E-05	6.91E-07	0.00E+00
6295	457158.1	3768844	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.96E-05	2.14E-06	0.00E+00	2.64E-05	6.91E-07	0.00E+00
6296	457148.9	3768840	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.96E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6297	457139.7	3768836	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6298	457130.5	3768833	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.15E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6299	457121.3	3768829	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.15E-06	0.00E+00	2.64E-05	6.93E-07	0.00E+00
6300	457112	3768825	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.66E-05	6.97E-07	0.00E+00
6301	457102.8	3768821	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.65E-05	6.96E-07	0.00E+00
6302	457093.6	3768817	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.00E-05	2.15E-06	0.00E+00	2.65E-05	6.95E-07	0.00E+00
6303	457084.4	3768814	0.000233	1.20E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.99E-05	2.15E-06	0.00E+00	2.65E-05	6.95E-07	0.00E+00
6304	457075.2	3768810	0.000233	1.20E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.98E-05	2.15E-06	0.00E+00	2.65E-05	6.94E-07	0.00E+00
6305	457066	3768806	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.15E-06	0.00E+00	2.64E-05	6.93E-07	0.00E+00
6306	457056.8	3768802	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.96E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6307	457047.5	3768798	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.95E-05	2.14E-06	0.00E+00	2.63E-05	6.90E-07	0.00E+00
6308	457038.3	3768795	0.000231	1.19E-05	0.00E+00	2.31E-04	1.19E-05	0.00E+00	6.93E-05	2.13E-06	0.00E+00	2.63E-05	6.89E-07	0.00E+00
6309	457029.1	3768791	0.000231	1.18E-05	0.00E+00	2.31E-04	1.18E-05	0.00E+00	6.92E-05	2.13E-06	0.00E+00	2.62E-05	6.87E-07	0.00E+00
6310	457019.9	3768787	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.90E-05	2.12E-06	0.00E+00	2.61E-05	6.86E-07	0.00E+00
6311	457010.7	3768783	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.84E-07	0.00E+00
6312	457001.5	3768779	0.000229	1.18E-05	0.00E+00	2.29E-04	1.18E-05	0.00E+00	6.86E-05	2.11E-06	0.00E+00	2.60E-05	6.82E-07	0.00E+00
6313	456992.2	3768776	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.84E-05	2.11E-06	0.00E+00	2.59E-05	6.80E-07	0.00E+00
6314	456983	3768772	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.82E-05	2.10E-06	0.00E+00	2.58E-05	6.78E-07	0.00E+00
6315	456973.8	3768768	0.000227	1.16E-05	0.00E+00	2.27E-04	1.16E-05	0.00E+00	6.80E-05	2.09E-06	0.00E+00	2.58E-05	6.76E-07	0.00E+00
6316	456964.6	3768764	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.78E-05	2.09E-06	0.00E+00	2.57E-05	6.73E-07	0.00E+00
6317	456955.4	3768760	0.000225	1.16E-05	0.00E+00	2.25E-04	1.16E-05	0.00E+00	6.75E-05	2.08E-06	0.00E+00	2.56E-05	6.71E-07	0.00E+00
6318	456946.2	3768757	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.72E-05	2.07E-06	0.00E+00	2.55E-05	6.68E-07	0.00E+00
6319	456937	3768753	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.69E-05	2.06E-06	0.00E+00	2.54E-05	6.65E-07	0.00E+00
6320	456927.7	3768749	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.67E-05	2.05E-06	0.00E+00	2.53E-05	6.62E-07	0.00E+00
6321	456890.9	3768734	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.55E-05	2.01E-06	0.00E+00	2.48E-05	6.50E-07	0.00E+00
6322	456881.7	3768730	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.51E-05	2.00E-06	0.00E+00	2.47E-05	6.47E-07	0.00E+00
6323	456872.5	3768726	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.48E-05	1.99E-06	0.00E+00	2.45E-05	6.44E-07	0.00E+00
6324	456863.2	3768723	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.45E-05	1.98E-06	0.00E+00	2.44E-05	6.41E-07	0.00E+00
6325	456854	3768719	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.41E-05	1.97E-06	0.00E+00	2.43E-05	6.37E-07	0.00E+00
6326	456840.9	3768706	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6327	456837.1	3768697	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.50E-05	2.00E-06	0.00E+00	2.46E-05	6.46E-07	0.00E+00
6328	456833.2	3768687	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.56E-05	2.02E-06	0.00E+00	2.49E-05	6.52E-07	0.00E+00
6329	456829.3	3768678	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.63E-05	2.04E-06	0.00E+00	2.51E-05	6.58E-07	0.00E+00
6330	456825.5	3768669	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.69E-05	2.06E-06	0.00E+00	2.53E-05	6.65E-07	0.00E+00
6331	456821.6	3768660	0.000225	1.16E-05	0.00E+00	2.25E-04	1.16E-05	0.00E+00	6.75E-05	2.08E-06	0.00E+00	2.56E-05	6.71E-07	0.00E+00
6332	456817.7	3768651	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.82E-05	2.10E-06	0.00E+00	2.58E-05	6.77E-07	0.00E+00
6333	456813.9	3768641	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.83E-07	0.00E+00

6334	456810	3768632	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.94E-05	2.14E-06	0.00E+00	2.63E-05	6.90E-07	0.00E+00
6335	456806.1	3768623	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.66E-05	6.97E-07	0.00E+00
6336	456802.3	3768614	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.08E-05	2.18E-06	0.00E+00	2.68E-05	7.03E-07	0.00E+00
6337	456798.4	3768605	0.000239	1.22E-05	0.00E+00	2.39E-04	1.22E-05	0.00E+00	7.15E-05	2.20E-06	0.00E+00	2.71E-05	7.10E-07	0.00E+00
6338	456794.5	3768596	0.000241	1.23E-05	0.00E+00	2.41E-04	1.23E-05	0.00E+00	7.21E-05	2.22E-06	0.00E+00	2.73E-05	7.17E-07	0.00E+00
6339	456790.7	3768586	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.28E-05	2.24E-06	0.00E+00	2.76E-05	7.24E-07	0.00E+00
6340	456786.8	3768577	0.000245	1.26E-05	0.00E+00	2.45E-04	1.26E-05	0.00E+00	7.35E-05	2.26E-06	0.00E+00	2.78E-05	7.30E-07	0.00E+00
6341	456782.9	3768568	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.42E-05	2.28E-06	0.00E+00	2.81E-05	7.37E-07	0.00E+00
6342	456779.1	3768559	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.49E-05	2.31E-06	0.00E+00	2.84E-05	7.45E-07	0.00E+00
6343	456775.2	3768550	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.57E-05	2.33E-06	0.00E+00	2.87E-05	7.52E-07	0.00E+00
6344	456771.3	3768540	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.64E-05	2.35E-06	0.00E+00	2.89E-05	7.59E-07	0.00E+00
6345	456767.5	3768531	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.72E-05	2.38E-06	0.00E+00	2.92E-05	7.67E-07	0.00E+00
6346	456763.6	3768522	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.79E-05	2.40E-06	0.00E+00	2.95E-05	7.74E-07	0.00E+00
6347	456759.7	3768513	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.87E-05	2.42E-06	0.00E+00	2.98E-05	7.82E-07	0.00E+00
6348	456755.9	3768504	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.95E-05	2.45E-06	0.00E+00	3.01E-05	7.90E-07	0.00E+00
6349	456752	3768495	0.000268	1.37E-05	0.00E+00	2.68E-04	1.37E-05	0.00E+00	8.03E-05	2.47E-06	0.00E+00	3.04E-05	7.98E-07	0.00E+00
6350	456748.1	3768485	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.11E-05	2.50E-06	0.00E+00	3.07E-05	8.06E-07	0.00E+00
6351	456744.3	3768476	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.19E-05	2.52E-06	0.00E+00	3.10E-05	8.14E-07	0.00E+00
6352	456740.4	3768467	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.27E-05	2.55E-06	0.00E+00	3.13E-05	8.22E-07	0.00E+00
6353	456736.5	3768458	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.36E-05	2.57E-06	0.00E+00	3.17E-05	8.30E-07	0.00E+00
6354	456721.1	3768421	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.71E-05	2.68E-06	0.00E+00	3.30E-05	8.65E-07	0.00E+00
6355	456717.2	3768412	0.000294	1.51E-05	0.00E+00	2.94E-04	1.51E-05	0.00E+00	8.80E-05	2.71E-06	0.00E+00	3.33E-05	8.74E-07	0.00E+00
6356	456713.3	3768403	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.89E-05	2.74E-06	0.00E+00	3.37E-05	8.83E-07	0.00E+00
6357	456709.5	3768394	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.98E-05	2.76E-06	0.00E+00	3.40E-05	8.92E-07	0.00E+00
6358	456705.6	3768384	0.000303	1.55E-05	0.00E+00	3.03E-04	1.55E-05	0.00E+00	9.07E-05	2.79E-06	0.00E+00	3.44E-05	9.01E-07	0.00E+00
6359	456701.7	3768375	0.000306	1.57E-05	0.00E+00	3.06E-04	1.57E-05	0.00E+00	9.17E-05	2.82E-06	0.00E+00	3.47E-05	9.11E-07	0.00E+00
6360	456697.8	3768366	0.000309	1.58E-05	0.00E+00	3.09E-04	1.58E-05	0.00E+00	9.26E-05	2.85E-06	0.00E+00	3.51E-05	9.20E-07	0.00E+00
6361	456694	3768357	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.35E-05	2.88E-06	0.00E+00	3.54E-05	9.29E-07	0.00E+00
6362	456690.1	3768348	0.000315	1.62E-05	0.00E+00	3.15E-04	1.62E-05	0.00E+00	9.45E-05	2.91E-06	0.00E+00	3.58E-05	9.39E-07	0.00E+00
6363	456686.2	3768338	0.000319	1.63E-05	0.00E+00	3.19E-04	1.63E-05	0.00E+00	9.54E-05	2.94E-06	0.00E+00	3.62E-05	9.48E-07	0.00E+00
6364	456682.4	3768329	0.000322	1.65E-05	0.00E+00	3.22E-04	1.65E-05	0.00E+00	9.64E-05	2.97E-06	0.00E+00	3.65E-05	9.58E-07	0.00E+00
6365	456678.5	3768320	0.000325	1.67E-05	0.00E+00	3.25E-04	1.67E-05	0.00E+00	9.74E-05	3.00E-06	0.00E+00	3.69E-05	9.67E-07	0.00E+00
6366	456674.6	3768311	0.000328	1.68E-05	0.00E+00	3.28E-04	1.68E-05	0.00E+00	9.83E-05	3.03E-06	0.00E+00	3.72E-05	9.77E-07	0.00E+00
6367	456670.8	3768302	0.000332	1.70E-05	0.00E+00	3.32E-04	1.70E-05	0.00E+00	9.93E-05	3.06E-06	0.00E+00	3.76E-05	9.87E-07	0.00E+00
6368	456666.9	3768292	0.000335	1.72E-05	0.00E+00	3.35E-04	1.72E-05	0.00E+00	1.00E-04	3.09E-06	0.00E+00	3.80E-05	9.96E-07	0.00E+00
6369	456663	3768283	0.000338	1.73E-05	0.00E+00	3.38E-04	1.73E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.83E-05	1.01E-06	0.00E+00
6370	456659.2	3768274	0.000341	1.75E-05	0.00E+00	3.41E-04	1.75E-05	0.00E+00	1.02E-04	3.14E-06	0.00E+00	3.87E-05	1.02E-06	0.00E+00
6371	456655.3	3768265	0.000344	1.77E-05	0.00E+00	3.44E-04	1.77E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.91E-05	1.02E-06	0.00E+00
6372	456651.4	3768256	0.000348	1.78E-05	0.00E+00	3.48E-04	1.78E-05	0.00E+00	1.04E-04	3.20E-06	0.00E+00	3.94E-05	1.03E-06	0.00E+00
6373	456647.6	3768247	0.000351	1.80E-05	0.00E+00	3.51E-04	1.80E-05	0.00E+00	1.05E-04	3.23E-06	0.00E+00	3.98E-05	1.04E-06	0.00E+00
6374	457334	3768912	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.84E-05	2.11E-06	0.00E+00	2.59E-05	6.80E-07	0.00E+00
6375	457343.9	3768912	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.90E-05	2.12E-06	0.00E+00	2.61E-05	6.85E-07	0.00E+00
6376	457353.9	3768912	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.95E-05	2.14E-06	0.00E+00	2.63E-05	6.91E-07	0.00E+00
6377	457363.9	3768912	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.66E-05	6.97E-07	0.00E+00
6378	457373.8	3768912	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.07E-05	2.18E-06	0.00E+00	2.68E-05	7.03E-07	0.00E+00
6379	457383.8	3768912	0.000238	1.22E-05	0.00E+00	2.38E-04	1.22E-05	0.00E+00	7.13E-05	2.20E-06	0.00E+00	2.70E-05	7.09E-07	0.00E+00
6380	457393.8	3768912	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.20E-05	2.22E-06	0.00E+00	2.73E-05	7.15E-07	0.00E+00
6381	457403.8	3768912	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.26E-05	2.24E-06	0.00E+00	2.75E-05	7.22E-07	0.00E+00
6382	457413.7	3768912	0.000245	1.25E-05	0.00E+00	2.45E-04	1.25E-05	0.00E+00	7.33E-05	2.26E-06	0.00E+00	2.78E-05	7.28E-07	0.00E+00
6383	457423.7	3768912	0.000247	1.27E-05	0.00E+00	2.47E-04	1.27E-05	0.00E+00	7.39E-05	2.28E-06	0.00E+00	2.80E-05	7.35E-07	0.00E+00
6384	457433.7	3768912	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.45E-05	2.29E-06	0.00E+00	2.82E-05	7.40E-07	0.00E+00
6385	457443.6	3768912	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.51E-05	2.31E-06	0.00E+00	2.85E-05	7.46E-07	0.00E+00
6386	457453.6	3768912	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.58E-05	2.33E-06	0.00E+00	2.87E-05	7.53E-07	0.00E+00
6387	457463.6	3768912	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.65E-05	2.36E-06	0.00E+00	2.90E-05	7.60E-07	0.00E+00
6388	457473.5	3768912	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.73E-05	2.38E-06	0.00E+00	2.93E-05	7.68E-07	0.00E+00
6389	457483.5	3768912	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.81E-05	2.40E-06	0.00E+00	2.96E-05	7.76E-07	0.00E+00
6390	457493.5	3768912	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.90E-05	2.43E-06	0.00E+00	2.99E-05	7.84E-07	0.00E+00
6391	457503.5	3768912	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	7.98E-05	2.46E-06	0.00E+00	3.02E-05	7.93E-07	0.00E+00
6392	457513.4	3768912	0.00027	1.38E-05	0.00E+00	2.70E-04	1.38E-05	0.00E+00	8.07E-05	2.48E-06	0.00E+00	3.06E-05	8.02E-07	0.00E+00
6393	457523.4	3768912	0.000273	1.40E-05	0.00E+00	2.73E-04	1.40E-05	0.00E+00	8.17E-05	2.51E-06	0.00E+00	3.09E-05	8.11E-07	0.00E+00
6394	457533.4	3768912	0.000276	1.41E-05	0.00E+00	2.76E-04	1.41E-05	0.00E+00	8.26E-05	2.54E-06	0.00E+00	3.13E-05	8.21E-07	0.00E+00
6395	457543.3	3768912	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.35E-05	2.57E-06	0.00E+00	3.16E-05	8.30E-07	0.00E+00
6396	457553.3	3768912	0.000282	1.44E-05	0.00E+00	2.82E-04	1.44E-05	0.00E+00	8.44E-05	2.60E-06	0.00E+00	3.20E-05	8.38E-07	0.00E+00
6397	457563.3	3768912	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.53E-05	2.62E-06	0.00E+00	3.23E-05	8.47E-07	0.00E+00
6398	457573.2	3768912	0.000288	1.48E-05	0.00E+00	2.88E-04	1.48E-05	0.00E+00	8.62E-05	2.65E-06	0.00E+00	3.27E-05	8.57E-07	0.00E+00
6399	457583.2	3768912	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.67E-07	0.00E+00
6400	457593.2	3768912	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.84E-05	2.72E-06	0.00E+00	3.35E-05	8.78E-07	0.00E+00
6401	457603.2	3768912	0.000299	1.53E-05	0.00E+00	2.99E-04	1.53E-05	0.00E+00	8.96E-05	2.76E-06	0.00E+00	3.39E-05	8.90E-07	0.00E+00
6402	457613.1	3768912	0.000303	1.55E-05	0.00E+00	3.03E-04	1.55E-05	0.00E+00	9.08E-05	2.79E-06	0.00E+00	3.44E-05	9.02E-07	0.00E+00
6403	457623.1	3768912	0.000307	1.58E-05	0.00E+00	3.07E-04	1.58E-05	0.00E+00	9.21E-05	2.83E-06	0.00E+00	3.49E-05	9.15E-07	0.00E+00
6404	457633.1	3768912	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.34E-05	2.87E-06	0.00E+00	3.54E-05	9.28E-07	0.00E+00
6405	457643	3768912	0.000316	1.62E-05	0.00E+00	3.16E-04	1.62E-05	0.00E+00	9.47E-05	2.92E-06	0.00E+00	3.59E-05	9.41E-07	0.00E+00
6406	457653	3768912	0.000321	1.65E-05	0.00E+00	3.21E-04	1.65E-05	0.00E+00	9.61E-05	2.96E-06	0.00E+00	3.64E-05	9.55E-07	0.00E+00
6407	457663	3768912	0.000325	1.67E-05	0.00E+00	3.25E-04	1.67E-05	0.00E+00	9.75E-05	3.00E-06	0.00E+00	3.69E-05	9.68E-07	0.00E+00
6408	457672.9	3768912	0.00033	1.69E-05	0.00E+00	3.30E-04	1.69E-05	0.00E+00	9.87E-05	3.04E-06	0.00E+00	3.74E-05	9.81E-07	0.00E+00
6409	457682.9	3768912	0.000334	1.71E-05	0.00E+00	3.34E-04	1.71E-05	0.00E+00	1.00E-04	3.08E-06	0.00E+00	3.79E-05	9.94E-07	0.00E+00
6410	457692.9	3768912	0.000339	1.74E-05	0.00E+00	3.39E-04	1.74E-05	0.00E+00	1.01E-04	3.12E-06	0.00E+00	3.84E-05	1.01E-06	0.00E+00
6411	457702.9	3768912	0.000344	1.76E-05	0.00E+00	3.44E-04	1.76E-05	0.00E+00	1.03E-04	3.17E-06	0.00E+00	3.90E-05	1.02E-06	0.00E+00
6412	457296.8	3768941	0.00021	1.07E-05	0.00E+00	2.10E-04	1.07E-05	0.00E+00	6.28E-05	1.93E-06	0.00E+00	2.38E-05	6.24E-07	0.00E+00
6413	457287.8	3768937	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.28E-05	1.93E-06	0.00E+00	2.38E-05	6.24E-07	0.00E+00
6414	457278.7	3768934	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.29E-05	1.94E-06	0.00E+00	2.38E-05	6.25E-07	0.00E+00
6415	457269.6	3768930	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.30E-05	1.94E-06	0.00E+00	2.39E-05	6.26E-07	0.00E+00
6416	457260.6	3768926	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.30E-05	1.94E-06	0.00E+00	2.39E-05	6.26E-07	0.00E+00
6417	457251.5	3768922	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.31E-05	1.94E-06	0.00E+00	2.39E-05	6.27E-07	0.00E+00
6418	457242.5	3768919	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.32E-05	1.94E-06	0.00E+00	2.39E-05	6.28E-07	0.00E+00
6419	457233.4	3768915	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
6420	457224.3	3768911	0.000212	1.09E-05	0.00E+00	2.12E-04	1.09E-05	0.00E+00	6.35E-05	1.95E-06	0.00E+00	2.41E-05	6.31E-07	0.00E+00
6421	457215.3	3768907	0.000212	1.09E-05	0.00E+00	2.12E-04	1.09E-05	0.00E+00	6.36E-05	1.96E-06	0.00E+00	2.41E-05	6.32E-07	0.00E+00
6422	457206.2	3768904	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.37E-05	1.96E-06	0.00E+00	2.41E-05	6.33E-07	0.00E+00
6423	457197.2	3768900	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.38E-05	1.96E-06	0.00E+00	2.42E-05	6.34E-07	0.00E+00
6424	457188.1	3768896	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.39E-05	1.97E-06	0.00E+00	2.42E-05	6.35E-07	0.00E+00
6425	457179	3768893	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.39E-05	1.97E-06	0.00E+00	2.42E-05	6.35E-07	0.00E+00
6426	457170	3768889	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.40E-05	1.97E-06	0.00E+00	2.43E-05	6.36E-07	0.00E+00
6427	457160.9	3768885	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.42E-05	1.97E-06	0.00E+00	2.43E-05	6.37E-07	0.00E+00
6428	457151.9	3768881	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.42E-05	1.98E-06	0.00E+00	2.43E-05	6.38E-07	0.00E+00
6429	457142.8	3768878	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.44E-05	6.39E-07	0.00E+00

6430	457133.7	3768874	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.44E-05	6.39E-07	0.00E+00
6431	457124.7	3768870	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.44E-05	6.39E-07	0.00E+00
6432	457115.6	3768866	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6433	457106.6	3768863	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6434	457097.5	3768859	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6435	457088.4	3768855	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.48E-05	2.00E-06	0.00E+00	2.46E-05	6.44E-07	0.00E+00
6436	457079.4	3768851	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.48E-05	1.99E-06	0.00E+00	2.45E-05	6.43E-07	0.00E+00
6437	457070.3	3768848	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.47E-05	1.99E-06	0.00E+00	2.45E-05	6.43E-07	0.00E+00
6438	457061.3	3768844	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.46E-05	1.99E-06	0.00E+00	2.45E-05	6.42E-07	0.00E+00
6439	457052.2	3768840	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.46E-05	1.99E-06	0.00E+00	2.45E-05	6.41E-07	0.00E+00
6440	457043.1	3768837	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.45E-05	1.98E-06	0.00E+00	2.44E-05	6.41E-07	0.00E+00
6441	457034.1	3768833	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6442	457025	3768829	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.43E-05	6.38E-07	0.00E+00
6443	457016	3768825	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.41E-05	1.97E-06	0.00E+00	2.43E-05	6.37E-07	0.00E+00
6444	457006.9	3768822	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.40E-05	1.97E-06	0.00E+00	2.42E-05	6.36E-07	0.00E+00
6445	456997.8	3768818	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.39E-05	1.97E-06	0.00E+00	2.42E-05	6.34E-07	0.00E+00
6446	456988.8	3768814	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.37E-05	1.96E-06	0.00E+00	2.41E-05	6.33E-07	0.00E+00
6447	456979.7	3768810	0.000212	1.09E-05	0.00E+00	2.12E-04	1.09E-05	0.00E+00	6.35E-05	1.96E-06	0.00E+00	2.41E-05	6.31E-07	0.00E+00
6448	456970.7	3768807	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
6449	456961.6	3768803	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.32E-05	1.94E-06	0.00E+00	2.39E-05	6.27E-07	0.00E+00
6450	456952.5	3768799	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.30E-05	1.94E-06	0.00E+00	2.38E-05	6.25E-07	0.00E+00
6451	456943.5	3768796	0.00021	1.07E-05	0.00E+00	2.10E-04	1.07E-05	0.00E+00	6.27E-05	1.93E-06	0.00E+00	2.38E-05	6.23E-07	0.00E+00
6452	456934.4	3768792	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.25E-05	1.92E-06	0.00E+00	2.37E-05	6.21E-07	0.00E+00
6453	456925.4	3768788	0.000208	1.07E-05	0.00E+00	2.08E-04	1.07E-05	0.00E+00	6.23E-05	1.92E-06	0.00E+00	2.36E-05	6.19E-07	0.00E+00
6454	456898.2	3768777	0.000206	1.05E-05	0.00E+00	2.06E-04	1.05E-05	0.00E+00	6.16E-05	1.90E-06	0.00E+00	2.33E-05	6.12E-07	0.00E+00
6455	456889.1	3768773	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.13E-05	1.89E-06	0.00E+00	2.32E-05	6.09E-07	0.00E+00
6456	456880.1	3768769	0.000204	1.05E-05	0.00E+00	2.04E-04	1.05E-05	0.00E+00	6.11E-05	1.88E-06	0.00E+00	2.31E-05	6.07E-07	0.00E+00
6457	456871	3768766	0.000203	1.04E-05	0.00E+00	2.03E-04	1.04E-05	0.00E+00	6.08E-05	1.87E-06	0.00E+00	2.30E-05	6.04E-07	0.00E+00
6458	456861.9	3768762	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.05E-05	1.86E-06	0.00E+00	2.29E-05	6.01E-07	0.00E+00
6459	456852.9	3768758	0.000201	1.03E-05	0.00E+00	2.01E-04	1.03E-05	0.00E+00	6.02E-05	1.85E-06	0.00E+00	2.28E-05	5.98E-07	0.00E+00
6460	456843.8	3768755	0.0002	1.03E-05	0.00E+00	2.00E-04	1.03E-05	0.00E+00	5.99E-05	1.85E-06	0.00E+00	2.27E-05	5.96E-07	0.00E+00
6461	456834.8	3768751	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6462	456825.7	3768747	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6463	456812.8	3768734	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.83E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6464	456809	3768725	0.000201	1.03E-05	0.00E+00	2.01E-04	1.03E-05	0.00E+00	6.01E-05	1.85E-06	0.00E+00	2.28E-05	5.97E-07	0.00E+00
6465	456805.2	3768716	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.06E-05	1.87E-06	0.00E+00	2.30E-05	6.03E-07	0.00E+00
6466	456801.4	3768707	0.000204	1.05E-05	0.00E+00	2.04E-04	1.05E-05	0.00E+00	6.12E-05	1.88E-06	0.00E+00	2.32E-05	6.08E-07	0.00E+00
6467	456797.6	3768698	0.000206	1.06E-05	0.00E+00	2.06E-04	1.06E-05	0.00E+00	6.17E-05	1.90E-06	0.00E+00	2.34E-05	6.13E-07	0.00E+00
6468	456793.8	3768689	0.000208	1.07E-05	0.00E+00	2.08E-04	1.07E-05	0.00E+00	6.23E-05	1.92E-06	0.00E+00	2.36E-05	6.19E-07	0.00E+00
6469	456790	3768680	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.28E-05	1.93E-06	0.00E+00	2.38E-05	6.24E-07	0.00E+00
6470	456786.2	3768671	0.000212	1.08E-05	0.00E+00	2.12E-04	1.08E-05	0.00E+00	6.34E-05	1.95E-06	0.00E+00	2.40E-05	6.30E-07	0.00E+00
6471	456782.4	3768662	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.39E-05	1.97E-06	0.00E+00	2.42E-05	6.35E-07	0.00E+00
6472	456778.6	3768653	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.45E-05	1.98E-06	0.00E+00	2.44E-05	6.41E-07	0.00E+00
6473	456774.8	3768644	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.51E-05	2.00E-06	0.00E+00	2.46E-05	6.46E-07	0.00E+00
6474	456771	3768635	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.56E-05	2.02E-06	0.00E+00	2.49E-05	6.52E-07	0.00E+00
6475	456767.2	3768626	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.62E-05	2.04E-06	0.00E+00	2.51E-05	6.58E-07	0.00E+00
6476	456763.4	3768617	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.68E-05	2.06E-06	0.00E+00	2.53E-05	6.64E-07	0.00E+00
6477	456759.6	3768608	0.000225	1.15E-05	0.00E+00	2.25E-04	1.15E-05	0.00E+00	6.74E-05	2.07E-06	0.00E+00	2.55E-05	6.70E-07	0.00E+00
6478	456755.8	3768599	0.000227	1.16E-05	0.00E+00	2.27E-04	1.16E-05	0.00E+00	6.80E-05	2.09E-06	0.00E+00	2.58E-05	6.76E-07	0.00E+00
6479	456752	3768590	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.86E-05	2.11E-06	0.00E+00	2.60E-05	6.82E-07	0.00E+00
6480	456748.2	3768581	0.000231	1.18E-05	0.00E+00	2.31E-04	1.18E-05	0.00E+00	6.92E-05	2.13E-06	0.00E+00	2.62E-05	6.88E-07	0.00E+00
6481	456744.4	3768572	0.000233	1.20E-05	0.00E+00	2.33E-04	1.20E-05	0.00E+00	6.99E-05	2.15E-06	0.00E+00	2.65E-05	6.94E-07	0.00E+00
6482	456740.6	3768563	0.000235	1.21E-05	0.00E+00	2.35E-04	1.21E-05	0.00E+00	7.05E-05	2.17E-06	0.00E+00	2.67E-05	7.00E-07	0.00E+00
6483	456736.8	3768554	0.000238	1.22E-05	0.00E+00	2.38E-04	1.22E-05	0.00E+00	7.11E-05	2.19E-06	0.00E+00	2.69E-05	7.07E-07	0.00E+00
6484	456733	3768545	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.18E-05	2.21E-06	0.00E+00	2.72E-05	7.13E-07	0.00E+00
6485	456729.2	3768536	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.25E-05	2.23E-06	0.00E+00	2.74E-05	7.20E-07	0.00E+00
6486	456725.4	3768527	0.000244	1.25E-05	0.00E+00	2.44E-04	1.25E-05	0.00E+00	7.31E-05	2.25E-06	0.00E+00	2.77E-05	7.27E-07	0.00E+00
6487	456721.6	3768518	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.38E-05	2.27E-06	0.00E+00	2.80E-05	7.33E-07	0.00E+00
6488	456717.8	3768509	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.45E-05	2.29E-06	0.00E+00	2.82E-05	7.40E-07	0.00E+00
6489	456714	3768500	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.52E-05	2.31E-06	0.00E+00	2.85E-05	7.47E-07	0.00E+00
6490	456710.2	3768491	0.000254	1.30E-05	0.00E+00	2.54E-04	1.30E-05	0.00E+00	7.59E-05	2.34E-06	0.00E+00	2.88E-05	7.54E-07	0.00E+00
6491	456706.4	3768481	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.66E-05	2.36E-06	0.00E+00	2.90E-05	7.61E-07	0.00E+00
6492	456702.6	3768472	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.74E-05	2.38E-06	0.00E+00	2.93E-05	7.69E-07	0.00E+00
6493	456698.8	3768463	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.81E-05	2.40E-06	0.00E+00	2.96E-05	7.76E-07	0.00E+00
6494	456695	3768454	0.000263	1.35E-05	0.00E+00	2.63E-04	1.35E-05	0.00E+00	7.89E-05	2.43E-06	0.00E+00	2.99E-05	7.84E-07	0.00E+00
6495	456679.8	3768418	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.52E-06	0.00E+00	3.10E-05	8.14E-07	0.00E+00
6496	456676	3768409	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.28E-05	2.55E-06	0.00E+00	3.13E-05	8.22E-07	0.00E+00
6497	456672.1	3768400	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.36E-05	2.57E-06	0.00E+00	3.17E-05	8.30E-07	0.00E+00
6498	456668.3	3768391	0.000282	1.44E-05	0.00E+00	2.82E-04	1.44E-05	0.00E+00	8.44E-05	2.60E-06	0.00E+00	3.20E-05	8.38E-07	0.00E+00
6499	456664.5	3768382	0.000284	1.46E-05	0.00E+00	2.84E-04	1.46E-05	0.00E+00	8.52E-05	2.62E-06	0.00E+00	3.23E-05	8.46E-07	0.00E+00
6500	456660.7	3768373	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.60E-05	2.65E-06	0.00E+00	3.26E-05	8.55E-07	0.00E+00
6501	456656.9	3768364	0.00029	1.49E-05	0.00E+00	2.90E-04	1.49E-05	0.00E+00	8.68E-05	2.67E-06	0.00E+00	3.29E-05	8.63E-07	0.00E+00
6502	456653.1	3768355	0.000293	1.50E-05	0.00E+00	2.93E-04	1.50E-05	0.00E+00	8.77E-05	2.70E-06	0.00E+00	3.32E-05	8.71E-07	0.00E+00
6503	456649.3	3768346	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.85E-05	2.72E-06	0.00E+00	3.35E-05	8.79E-07	0.00E+00
6504	456645.5	3768337	0.000298	1.53E-05	0.00E+00	2.98E-04	1.53E-05	0.00E+00	8.93E-05	2.75E-06	0.00E+00	3.38E-05	8.88E-07	0.00E+00
6505	456641.7	3768328	0.000301	1.54E-05	0.00E+00	3.01E-04	1.54E-05	0.00E+00	9.02E-05	2.78E-06	0.00E+00	3.42E-05	8.96E-07	0.00E+00
6506	456637.9	3768319	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.10E-05	2.80E-06	0.00E+00	3.45E-05	9.04E-07	0.00E+00
6507	456634.1	3768310	0.000307	1.57E-05	0.00E+00	3.07E-04	1.57E-05	0.00E+00	9.19E-05	2.83E-06	0.00E+00	3.48E-05	9.13E-07	0.00E+00
6508	456630.3	3768301	0.00031	1.59E-05	0.00E+00	3.10E-04	1.59E-05	0.00E+00	9.27E-05	2.85E-06	0.00E+00	3.51E-05	9.21E-07	0.00E+00
6509	456626.5	3768292	0.000312	1.60E-05	0.00E+00	3.12E-04	1.60E-05	0.00E+00	9.35E-05	2.88E-06	0.00E+00	3.54E-05	9.29E-07	0.00E+00
6510	456622.7	3768283	0.000315	1.62E-05	0.00E+00	3.15E-04	1.62E-05	0.00E+00	9.44E-05	2.90E-06	0.00E+00	3.57E-05	9.38E-07	0.00E+00
6511	456618.9	3768274	0.000318	1.63E-05	0.00E+00	3.18E-04	1.63E-05	0.00E+00	9.52E-05	2.93E-06	0.00E+00	3.61E-05	9.46E-07	0.00E+00
6512	456615.1	3768265	0.000321	1.64E-05	0.00E+00	3.21E-04	1.64E-05	0.00E+00	9.61E-05	2.96E-06	0.00E+00	3.64E-05	9.54E-07	0.00E+00
6513	456611.3	3768256	0.000324	1.66E-05	0.00E+00	3.24E-04	1.66E-05	0.00E+00	9.69E-05	2.98E-06	0.00E+00	3.67E-05	9.63E-07	0.00E+00
6514	456607.5	3768247	0.000326	1.67E-05	0.00E+00	3.26E-04	1.67E-05	0.00E+00	9.77E-05	3.01E-06	0.00E+00	3.70E-05	9.71E-07	0.00E+00
6515	457334	3768952	0.00021	1.08E-05	0.00E+00	2.10E-04	1.08E-05	0.00E+00	6.30E-05	1.94E-06	0.00E+00	2.39E-05	6.26E-07	0.00E+00
6516	457343.9	3768952	0.000212	1.09E-05	0.00E+00	2.12E-04	1.09E-05	0.00E+00	6.35E-05	1.95E-06	0.00E+00	2.41E-05	6.31E-07	0.00E+00
6517	457353.9	3768952	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.40E-05	1.97E-06	0.00E+00	2.42E-05	6.36E-07	0.00E+00
6518	457363.9	3768952	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.45E-05	1.99E-06	0.00E+00	2.44E-05	6.41E-07	0.00E+00
6519	457373.9	3768952	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.50E-05	2.00E-06	0.00E+00	2.46E-05	6.46E-07	0.00E+00
6520	457383.8	3768952	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.56E-05	2.02E-06	0.00E+00	2.48E-05	6.51E-07	0.00E+00
6521	457393.8	3768952	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.61E-05	2.03E-06	0.00E+00	2.50E-05	6.56E-07	0.00E+00
6522	457403.8	3768952	0.000222	1.14E-05	0.00E+00	2.22E-04	1.14E-05	0.00E+00	6.65E-05	2.05E-06	0.00E+00	2.52E-05	6.61E-07	0.00E+00
6523	457413.7	3768952	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.70E-05	2.06E-06	0.00E+00	2.54E-05	6.66E-07	0.00E+00
6524	457423.7	3768952	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.76E-05	2.08E-06	0.00E+00	2.56E-05	6.71E-07	0.00E+00
6525	457433.7	3768952	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.82E-05	2.10E-06	0.00E+00	2.58E-05	6.77E-07	0.00E+00

6526	457443.7	3768952	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.84E-07	0.00E+00
6527	457453.6	3768952	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.94E-05	2.14E-06	0.00E+00	2.63E-05	6.90E-07	0.00E+00
6528	457463.6	3768952	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.65E-05	6.96E-07	0.00E+00
6529	457473.6	3768952	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.07E-05	2.18E-06	0.00E+00	2.68E-05	7.03E-07	0.00E+00
6530	457483.5	3768952	0.000239	1.22E-05	0.00E+00	2.39E-04	1.22E-05	0.00E+00	7.14E-05	2.20E-06	0.00E+00	2.71E-05	7.10E-07	0.00E+00
6531	457493.5	3768952	0.000241	1.24E-05	0.00E+00	2.41E-04	1.24E-05	0.00E+00	7.22E-05	2.22E-06	0.00E+00	2.73E-05	7.17E-07	0.00E+00
6532	457503.5	3768952	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.29E-05	2.24E-06	0.00E+00	2.76E-05	7.24E-07	0.00E+00
6533	457513.4	3768952	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.36E-05	2.27E-06	0.00E+00	2.79E-05	7.32E-07	0.00E+00
6534	457523.4	3768952	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.43E-05	2.29E-06	0.00E+00	2.81E-05	7.38E-07	0.00E+00
6535	457533.4	3768952	0.00025	1.28E-05	0.00E+00	2.50E-04	1.28E-05	0.00E+00	7.50E-05	2.31E-06	0.00E+00	2.84E-05	7.45E-07	0.00E+00
6536	457543.4	3768952	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.58E-05	2.33E-06	0.00E+00	2.87E-05	7.53E-07	0.00E+00
6537	457553.3	3768952	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.66E-05	2.36E-06	0.00E+00	2.90E-05	7.61E-07	0.00E+00
6538	457563.3	3768952	0.000259	1.33E-05	0.00E+00	2.59E-04	1.33E-05	0.00E+00	7.75E-05	2.38E-06	0.00E+00	2.94E-05	7.70E-07	0.00E+00
6539	457573.3	3768952	0.000262	1.34E-05	0.00E+00	2.62E-04	1.34E-05	0.00E+00	7.84E-05	2.41E-06	0.00E+00	2.97E-05	7.79E-07	0.00E+00
6540	457583.2	3768952	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.93E-05	2.44E-06	0.00E+00	3.00E-05	7.88E-07	0.00E+00
6541	457593.2	3768952	0.000268	1.37E-05	0.00E+00	2.68E-04	1.37E-05	0.00E+00	8.02E-05	2.47E-06	0.00E+00	3.04E-05	7.97E-07	0.00E+00
6542	457603.2	3768952	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.11E-05	2.50E-06	0.00E+00	3.07E-05	8.06E-07	0.00E+00
6543	457613.1	3768952	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.52E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6544	457623.1	3768952	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
6545	457633.1	3768952	0.00028	1.44E-05	0.00E+00	2.80E-04	1.44E-05	0.00E+00	8.39E-05	2.58E-06	0.00E+00	3.18E-05	8.33E-07	0.00E+00
6546	457643.1	3768952	0.000284	1.45E-05	0.00E+00	2.84E-04	1.45E-05	0.00E+00	8.50E-05	2.62E-06	0.00E+00	3.22E-05	8.44E-07	0.00E+00
6547	457653	3768952	0.000288	1.47E-05	0.00E+00	2.88E-04	1.47E-05	0.00E+00	8.61E-05	2.65E-06	0.00E+00	3.26E-05	8.56E-07	0.00E+00
6548	457663	3768952	0.000291	1.49E-05	0.00E+00	2.91E-04	1.49E-05	0.00E+00	8.73E-05	2.69E-06	0.00E+00	3.31E-05	8.67E-07	0.00E+00
6549	457673	3768952	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.85E-05	2.72E-06	0.00E+00	3.35E-05	8.79E-07	0.00E+00
6550	457682.9	3768952	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.98E-05	2.76E-06	0.00E+00	3.40E-05	8.92E-07	0.00E+00
6551	457692.9	3768952	0.000304	1.56E-05	0.00E+00	3.04E-04	1.56E-05	0.00E+00	9.10E-05	2.80E-06	0.00E+00	3.45E-05	9.04E-07	0.00E+00
6552	457702.9	3768952	0.000308	1.58E-05	0.00E+00	3.08E-04	1.58E-05	0.00E+00	9.23E-05	2.84E-06	0.00E+00	3.50E-05	9.17E-07	0.00E+00
6553	457296.8	3768981	0.000193	9.90E-06	0.00E+00	1.93E-04	9.90E-06	0.00E+00	5.78E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
6554	457287.7	3768977	0.000193	9.91E-06	0.00E+00	1.93E-04	9.91E-06	0.00E+00	5.79E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
6555	457278.6	3768973	0.000194	9.93E-06	0.00E+00	1.94E-04	9.93E-06	0.00E+00	5.80E-05	1.79E-06	0.00E+00	2.20E-05	5.76E-07	0.00E+00
6556	457269.6	3768970	0.000194	9.95E-06	0.00E+00	1.94E-04	9.95E-06	0.00E+00	5.81E-05	1.79E-06	0.00E+00	2.20E-05	5.77E-07	0.00E+00
6557	457260.5	3768966	0.000195	9.97E-06	0.00E+00	1.95E-04	9.97E-06	0.00E+00	5.83E-05	1.79E-06	0.00E+00	2.21E-05	5.79E-07	0.00E+00
6558	457251.4	3768962	0.000195	9.99E-06	0.00E+00	1.95E-04	9.99E-06	0.00E+00	5.84E-05	1.80E-06	0.00E+00	2.21E-05	5.80E-07	0.00E+00
6559	457242.3	3768959	0.000195	1.00E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.85E-05	1.80E-06	0.00E+00	2.22E-05	5.81E-07	0.00E+00
6560	457233.3	3768955	0.000196	1.00E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.86E-05	1.80E-06	0.00E+00	2.22E-05	5.82E-07	0.00E+00
6561	457224.2	3768951	0.000196	1.00E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.87E-05	1.81E-06	0.00E+00	2.22E-05	5.83E-07	0.00E+00
6562	457215.1	3768947	0.000196	1.01E-05	0.00E+00	1.96E-04	1.01E-05	0.00E+00	5.87E-05	1.81E-06	0.00E+00	2.23E-05	5.84E-07	0.00E+00
6563	457206	3768944	0.000196	1.01E-05	0.00E+00	1.96E-04	1.01E-05	0.00E+00	5.88E-05	1.81E-06	0.00E+00	2.23E-05	5.85E-07	0.00E+00
6564	457196.9	3768940	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.89E-05	1.81E-06	0.00E+00	2.23E-05	5.86E-07	0.00E+00
6565	457187.9	3768936	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.90E-05	1.82E-06	0.00E+00	2.24E-05	5.87E-07	0.00E+00
6566	457178.8	3768932	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.91E-05	1.82E-06	0.00E+00	2.24E-05	5.88E-07	0.00E+00
6567	457169.7	3768929	0.000198	1.01E-05	0.00E+00	1.98E-04	1.01E-05	0.00E+00	5.92E-05	1.82E-06	0.00E+00	2.24E-05	5.89E-07	0.00E+00
6568	457160.6	3768925	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.93E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6569	457151.6	3768921	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6570	457142.5	3768917	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.95E-05	1.83E-06	0.00E+00	2.25E-05	5.91E-07	0.00E+00
6571	457133.4	3768914	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.95E-05	1.83E-06	0.00E+00	2.25E-05	5.91E-07	0.00E+00
6572	457124.3	3768910	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.83E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6573	457115.3	3768906	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.84E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6574	457106.2	3768903	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6575	457097.1	3768899	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6576	457088	3768895	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.94E-07	0.00E+00
6577	457078.9	3768891	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.98E-05	1.84E-06	0.00E+00	2.26E-05	5.94E-07	0.00E+00
6578	457069.9	3768888	0.0002	1.02E-05	0.00E+00	2.00E-04	1.02E-05	0.00E+00	5.98E-05	1.84E-06	0.00E+00	2.26E-05	5.94E-07	0.00E+00
6579	457060.8	3768884	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.98E-05	1.84E-06	0.00E+00	2.26E-05	5.94E-07	0.00E+00
6580	457051.7	3768880	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.94E-07	0.00E+00
6581	457042.6	3768876	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6582	457033.6	3768873	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6583	457024.5	3768869	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.84E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6584	457015.4	3768865	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.83E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6585	457006.3	3768861	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.95E-05	1.83E-06	0.00E+00	2.25E-05	5.91E-07	0.00E+00
6586	456997.2	3768858	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6587	456988.2	3768854	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.91E-07	0.00E+00
6588	456979.1	3768850	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.93E-05	1.83E-06	0.00E+00	2.25E-05	5.89E-07	0.00E+00
6589	456970	3768846	0.000198	1.01E-05	0.00E+00	1.98E-04	1.01E-05	0.00E+00	5.92E-05	1.82E-06	0.00E+00	2.24E-05	5.88E-07	0.00E+00
6590	456960.9	3768843	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.90E-05	1.82E-06	0.00E+00	2.24E-05	5.87E-07	0.00E+00
6591	456951.9	3768839	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.89E-05	1.81E-06	0.00E+00	2.23E-05	5.85E-07	0.00E+00
6592	456942.8	3768835	0.000196	1.01E-05	0.00E+00	1.96E-04	1.01E-05	0.00E+00	5.87E-05	1.81E-06	0.00E+00	2.22E-05	5.84E-07	0.00E+00
6593	456933.7	3768832	0.000196	1.00E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.86E-05	1.80E-06	0.00E+00	2.22E-05	5.82E-07	0.00E+00
6594	456924.6	3768828	0.000195	1.00E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.84E-05	1.80E-06	0.00E+00	2.21E-05	5.80E-07	0.00E+00
6595	456897.4	3768817	0.000193	9.89E-06	0.00E+00	1.93E-04	9.89E-06	0.00E+00	5.78E-05	1.78E-06	0.00E+00	2.19E-05	5.74E-07	0.00E+00
6596	456888.3	3768813	0.000192	9.86E-06	0.00E+00	1.92E-04	9.86E-06	0.00E+00	5.76E-05	1.77E-06	0.00E+00	2.18E-05	5.72E-07	0.00E+00
6597	456879.2	3768809	0.000192	9.82E-06	0.00E+00	1.92E-04	9.82E-06	0.00E+00	5.74E-05	1.77E-06	0.00E+00	2.17E-05	5.70E-07	0.00E+00
6598	456870.2	3768805	0.000191	9.78E-06	0.00E+00	1.91E-04	9.78E-06	0.00E+00	5.72E-05	1.76E-06	0.00E+00	2.16E-05	5.68E-07	0.00E+00
6599	456861.1	3768802	0.00019	9.74E-06	0.00E+00	1.90E-04	9.74E-06	0.00E+00	5.69E-05	1.75E-06	0.00E+00	2.16E-05	5.65E-07	0.00E+00
6600	456852	3768798	0.000189	9.70E-06	0.00E+00	1.89E-04	9.70E-06	0.00E+00	5.67E-05	1.74E-06	0.00E+00	2.15E-05	5.63E-07	0.00E+00
6601	456842.9	3768794	0.000188	9.66E-06	0.00E+00	1.88E-04	9.66E-06	0.00E+00	5.64E-05	1.74E-06	0.00E+00	2.14E-05	5.61E-07	0.00E+00
6602	456833.9	3768790	0.000188	9.62E-06	0.00E+00	1.88E-04	9.62E-06	0.00E+00	5.62E-05	1.73E-06	0.00E+00	2.13E-05	5.58E-07	0.00E+00
6603	456824.8	3768787	0.000187	9.58E-06	0.00E+00	1.87E-04	9.58E-06	0.00E+00	5.59E-05	1.72E-06	0.00E+00	2.12E-05	5.56E-07	0.00E+00
6604	456815.7	3768783	0.000186	9.53E-06	0.00E+00	1.86E-04	9.53E-06	0.00E+00	5.57E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6605	456806.6	3768779	0.000185	9.49E-06	0.00E+00	1.85E-04	9.49E-06	0.00E+00	5.54E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6606	456797.5	3768775	0.000184	9.44E-06	0.00E+00	1.84E-04	9.44E-06	0.00E+00	5.52E-05	1.70E-06	0.00E+00	2.09E-05	5.48E-07	0.00E+00
6607	456784.7	3768763	0.000185	9.48E-06	0.00E+00	1.85E-04	9.48E-06	0.00E+00	5.54E-05	1.70E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
6608	456780.9	3768754	0.000186	9.56E-06	0.00E+00	1.86E-04	9.56E-06	0.00E+00	5.58E-05	1.72E-06	0.00E+00	2.11E-05	5.55E-07	0.00E+00
6609	456777	3768745	0.000188	9.64E-06	0.00E+00	1.88E-04	9.64E-06	0.00E+00	5.63E-05	1.73E-06	0.00E+00	2.13E-05	5.59E-07	0.00E+00
6610	456773.2	3768736	0.00019	9.72E-06	0.00E+00	1.90E-04	9.72E-06	0.00E+00	5.68E-05	1.75E-06	0.00E+00	2.15E-05	5.64E-07	0.00E+00
6611	456769.4	3768727	0.000191	9.80E-06	0.00E+00	1.91E-04	9.80E-06	0.00E+00	5.72E-05	1.76E-06	0.00E+00	2.17E-05	5.69E-07	0.00E+00
6612	456765.6	3768717	0.000193	9.88E-06	0.00E+00	1.93E-04	9.88E-06	0.00E+00	5.77E-05	1.78E-06	0.00E+00	2.19E-05	5.73E-07	0.00E+00
6613	456761.8	3768708	0.000194	9.96E-06	0.00E+00	1.94E-04	9.96E-06	0.00E+00	5.82E-05	1.79E-06	0.00E+00	2.20E-05	5.78E-07	0.00E+00
6614	456758	3768699	0.000196	1.00E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.87E-05	1.81E-06	0.00E+00	2.22E-05	5.83E-07	0.00E+00
6615	456754.2	3768690	0.000198	1.01E-05	0.00E+00	1.98E-04	1.01E-05	0.00E+00	5.92E-05	1.82E-06	0.00E+00	2.24E-05	5.88E-07	0.00E+00
6616	456750.4	3768681	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.97E-05	1.84E-06	0.00E+00	2.26E-05	5.93E-07	0.00E+00
6617	456746.6	3768672	0.000201	1.03E-05	0.00E+00	2.01E-04	1.03E-05	0.00E+00	6.02E-05	1.85E-06	0.00E+00	2.28E-05	5.98E-07	0.00E+00
6618	456742.8	3768663	0.000203	1.04E-05	0.00E+00	2.03E-04	1.04E-05	0.00E+00	6.07E-05	1.87E-06	0.00E+00	2.30E-05	6.03E-07	0.00E+00
6619	456738.9	3768654	0.000204	1.05E-05	0.00E+00	2.04E-04	1.05E-05	0.00E+00	6.12E-05	1.88E-06	0.00E+00	2.32E-05	6.08E-07	0.00E+00
6620	456735.1	3768645	0.000206	1.06E-05	0.00E+00	2.06E-04	1.06E-05	0.00E+00	6.17E-05	1.90E-06	0.00E+00	2.34E-05	6.13E-07	0.00E+00
6621	456731.3	3768636	0.000208	1.06E-05	0.00E+00	2.08E-04	1.06E-05	0.00E+00	6.22E-05	1.91E-06	0.00E+00	2.36E-05	6.18E-07	0.00E+00

6622	456727.5	3768627	0.00021	1.07E-05	0.00E+00	2.10E-04	1.07E-05	0.00E+00	6.27E-05	1.93E-06	0.00E+00	2.38E-05	6.23E-07	0.00E+00
6623	456723.7	3768618	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
6624	456719.9	3768609	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.38E-05	1.96E-06	0.00E+00	2.42E-05	6.34E-07	0.00E+00
6625	456716.1	3768600	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.44E-05	1.98E-06	0.00E+00	2.44E-05	6.40E-07	0.00E+00
6626	456712.3	3768591	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.49E-05	2.00E-06	0.00E+00	2.46E-05	6.45E-07	0.00E+00
6627	456708.5	3768582	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.55E-05	2.02E-06	0.00E+00	2.48E-05	6.51E-07	0.00E+00
6628	456704.7	3768573	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.61E-05	2.03E-06	0.00E+00	2.50E-05	6.56E-07	0.00E+00
6629	456700.9	3768564	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.66E-05	2.05E-06	0.00E+00	2.52E-05	6.62E-07	0.00E+00
6630	456697	3768555	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.72E-05	2.07E-06	0.00E+00	2.55E-05	6.68E-07	0.00E+00
6631	456693.2	3768546	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.78E-05	2.09E-06	0.00E+00	2.57E-05	6.74E-07	0.00E+00
6632	456689.4	3768537	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.84E-05	2.11E-06	0.00E+00	2.59E-05	6.80E-07	0.00E+00
6633	456685.6	3768527	0.000231	1.18E-05	0.00E+00	2.31E-04	1.18E-05	0.00E+00	6.90E-05	2.12E-06	0.00E+00	2.62E-05	6.86E-07	0.00E+00
6634	456681.8	3768518	0.000233	1.19E-05	0.00E+00	2.33E-04	1.19E-05	0.00E+00	6.97E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6635	456678	3768509	0.000235	1.20E-05	0.00E+00	2.35E-04	1.20E-05	0.00E+00	7.03E-05	2.16E-06	0.00E+00	2.66E-05	6.98E-07	0.00E+00
6636	456674.2	3768500	0.000237	1.21E-05	0.00E+00	2.37E-04	1.21E-05	0.00E+00	7.09E-05	2.18E-06	0.00E+00	2.69E-05	7.05E-07	0.00E+00
6637	456670.4	3768491	0.000239	1.23E-05	0.00E+00	2.39E-04	1.23E-05	0.00E+00	7.16E-05	2.20E-06	0.00E+00	2.71E-05	7.11E-07	0.00E+00
6638	456666.6	3768482	0.000241	1.24E-05	0.00E+00	2.41E-04	1.24E-05	0.00E+00	7.22E-05	2.22E-06	0.00E+00	2.74E-05	7.18E-07	0.00E+00
6639	456662.8	3768473	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.29E-05	2.24E-06	0.00E+00	2.76E-05	7.24E-07	0.00E+00
6640	456658.9	3768464	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.36E-05	2.26E-06	0.00E+00	2.79E-05	7.31E-07	0.00E+00
6641	456655.1	3768455	0.000248	1.27E-05	0.00E+00	2.48E-04	1.27E-05	0.00E+00	7.43E-05	2.29E-06	0.00E+00	2.81E-05	7.38E-07	0.00E+00
6642	456639.9	3768419	0.000257	1.32E-05	0.00E+00	2.57E-04	1.32E-05	0.00E+00	7.71E-05	2.37E-06	0.00E+00	2.92E-05	7.66E-07	0.00E+00
6643	456636.1	3768410	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.78E-05	2.39E-06	0.00E+00	2.95E-05	7.73E-07	0.00E+00
6644	456632.3	3768401	0.000262	1.34E-05	0.00E+00	2.62E-04	1.34E-05	0.00E+00	7.85E-05	2.42E-06	0.00E+00	2.97E-05	7.80E-07	0.00E+00
6645	456628.5	3768392	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.92E-05	2.44E-06	0.00E+00	3.00E-05	7.87E-07	0.00E+00
6646	456624.7	3768383	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.00E-05	2.46E-06	0.00E+00	3.03E-05	7.95E-07	0.00E+00
6647	456620.9	3768374	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.07E-05	2.48E-06	0.00E+00	3.06E-05	8.02E-07	0.00E+00
6648	456617	3768365	0.000272	1.39E-05	0.00E+00	2.72E-04	1.39E-05	0.00E+00	8.14E-05	2.51E-06	0.00E+00	3.09E-05	8.09E-07	0.00E+00
6649	456613.2	3768356	0.000274	1.41E-05	0.00E+00	2.74E-04	1.41E-05	0.00E+00	8.22E-05	2.53E-06	0.00E+00	3.11E-05	8.17E-07	0.00E+00
6650	456609.4	3768347	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.29E-05	2.55E-06	0.00E+00	3.14E-05	8.24E-07	0.00E+00
6651	456605.6	3768338	0.000279	1.43E-05	0.00E+00	2.79E-04	1.43E-05	0.00E+00	8.37E-05	2.58E-06	0.00E+00	3.17E-05	8.31E-07	0.00E+00
6652	456601.8	3768328	0.000282	1.45E-05	0.00E+00	2.82E-04	1.45E-05	0.00E+00	8.44E-05	2.60E-06	0.00E+00	3.20E-05	8.39E-07	0.00E+00
6653	456598	3768319	0.000284	1.46E-05	0.00E+00	2.84E-04	1.46E-05	0.00E+00	8.52E-05	2.62E-06	0.00E+00	3.23E-05	8.47E-07	0.00E+00
6654	456594.2	3768310	0.000287	1.47E-05	0.00E+00	2.87E-04	1.47E-05	0.00E+00	8.60E-05	2.65E-06	0.00E+00	3.26E-05	8.54E-07	0.00E+00
6655	456590.4	3768301	0.00029	1.48E-05	0.00E+00	2.90E-04	1.48E-05	0.00E+00	8.67E-05	2.67E-06	0.00E+00	3.28E-05	8.61E-07	0.00E+00
6656	456586.6	3768292	0.000292	1.50E-05	0.00E+00	2.92E-04	1.50E-05	0.00E+00	8.75E-05	2.69E-06	0.00E+00	3.31E-05	8.69E-07	0.00E+00
6657	456582.8	3768283	0.000295	1.51E-05	0.00E+00	2.95E-04	1.51E-05	0.00E+00	8.82E-05	2.72E-06	0.00E+00	3.34E-05	8.77E-07	0.00E+00
6658	456578.9	3768274	0.000297	1.52E-05	0.00E+00	2.97E-04	1.52E-05	0.00E+00	8.90E-05	2.74E-06	0.00E+00	3.37E-05	8.84E-07	0.00E+00
6659	456575.1	3768265	0.0003	1.54E-05	0.00E+00	3.00E-04	1.54E-05	0.00E+00	8.97E-05	2.76E-06	0.00E+00	3.40E-05	8.91E-07	0.00E+00
6660	456571.3	3768256	0.000302	1.55E-05	0.00E+00	3.02E-04	1.55E-05	0.00E+00	9.05E-05	2.78E-06	0.00E+00	3.43E-05	8.99E-07	0.00E+00
6661	456567.5	3768247	0.000305	1.56E-05	0.00E+00	3.05E-04	1.56E-05	0.00E+00	9.12E-05	2.81E-06	0.00E+00	3.45E-05	9.06E-07	0.00E+00
6662	457334	3768992	0.000194	9.94E-06	0.00E+00	1.94E-04	9.94E-06	0.00E+00	5.81E-05	1.79E-06	0.00E+00	2.20E-05	5.77E-07	0.00E+00
6663	457344	3768992	0.000195	1.00E-05	0.00E+00	1.95E-04	1.00E-05	0.00E+00	5.85E-05	1.80E-06	0.00E+00	2.22E-05	5.81E-07	0.00E+00
6664	457353.9	3768992	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.89E-05	1.81E-06	0.00E+00	2.23E-05	5.86E-07	0.00E+00
6665	457363.9	3768992	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6666	457373.9	3768992	0.0002	1.02E-05	0.00E+00	2.00E-04	1.02E-05	0.00E+00	5.98E-05	1.84E-06	0.00E+00	2.27E-05	5.94E-07	0.00E+00
6667	457383.8	3768992	0.000201	1.03E-05	0.00E+00	2.01E-04	1.03E-05	0.00E+00	6.03E-05	1.86E-06	0.00E+00	2.28E-05	5.99E-07	0.00E+00
6668	457393.8	3768992	0.000203	1.04E-05	0.00E+00	2.03E-04	1.04E-05	0.00E+00	6.08E-05	1.87E-06	0.00E+00	2.30E-05	6.04E-07	0.00E+00
6669	457403.8	3768992	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.13E-05	1.89E-06	0.00E+00	2.32E-05	6.09E-07	0.00E+00
6670	457413.8	3768992	0.000206	1.06E-05	0.00E+00	2.06E-04	1.06E-05	0.00E+00	6.18E-05	1.90E-06	0.00E+00	2.34E-05	6.14E-07	0.00E+00
6671	457423.7	3768992	0.000208	1.07E-05	0.00E+00	2.08E-04	1.07E-05	0.00E+00	6.23E-05	1.92E-06	0.00E+00	2.36E-05	6.19E-07	0.00E+00
6672	457433.7	3768992	0.00021	1.07E-05	0.00E+00	2.10E-04	1.07E-05	0.00E+00	6.28E-05	1.93E-06	0.00E+00	2.38E-05	6.24E-07	0.00E+00
6673	457443.7	3768992	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.33E-05	1.95E-06	0.00E+00	2.40E-05	6.29E-07	0.00E+00
6674	457453.6	3768992	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.38E-05	1.96E-06	0.00E+00	2.42E-05	6.34E-07	0.00E+00
6675	457463.6	3768992	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.44E-05	6.39E-07	0.00E+00
6676	457473.6	3768992	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.49E-05	2.00E-06	0.00E+00	2.46E-05	6.44E-07	0.00E+00
6677	457483.6	3768992	0.000218	1.12E-05	0.00E+00	2.18E-04	1.12E-05	0.00E+00	6.54E-05	2.01E-06	0.00E+00	2.48E-05	6.50E-07	0.00E+00
6678	457493.5	3768992	0.000221	1.13E-05	0.00E+00	2.21E-04	1.13E-05	0.00E+00	6.61E-05	2.03E-06	0.00E+00	2.50E-05	6.56E-07	0.00E+00
6679	457503.5	3768992	0.000223	1.14E-05	0.00E+00	2.23E-04	1.14E-05	0.00E+00	6.67E-05	2.05E-06	0.00E+00	2.53E-05	6.63E-07	0.00E+00
6680	457513.5	3768992	0.000225	1.15E-05	0.00E+00	2.25E-04	1.15E-05	0.00E+00	6.73E-05	2.07E-06	0.00E+00	2.55E-05	6.69E-07	0.00E+00
6681	457523.4	3768992	0.000227	1.16E-05	0.00E+00	2.27E-04	1.16E-05	0.00E+00	6.80E-05	2.09E-06	0.00E+00	2.57E-05	6.75E-07	0.00E+00
6682	457533.4	3768992	0.000229	1.17E-05	0.00E+00	2.29E-04	1.17E-05	0.00E+00	6.86E-05	2.11E-06	0.00E+00	2.60E-05	6.81E-07	0.00E+00
6683	457543.4	3768992	0.000231	1.19E-05	0.00E+00	2.31E-04	1.19E-05	0.00E+00	6.93E-05	2.13E-06	0.00E+00	2.62E-05	6.88E-07	0.00E+00
6684	457553.3	3768992	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.00E-05	2.15E-06	0.00E+00	2.65E-05	6.95E-07	0.00E+00
6685	457563.3	3768992	0.000236	1.21E-05	0.00E+00	2.36E-04	1.21E-05	0.00E+00	7.08E-05	2.18E-06	0.00E+00	2.68E-05	7.03E-07	0.00E+00
6686	457573.3	3768992	0.000239	1.22E-05	0.00E+00	2.39E-04	1.22E-05	0.00E+00	7.15E-05	2.20E-06	0.00E+00	2.71E-05	7.10E-07	0.00E+00
6687	457583.3	3768992	0.000241	1.24E-05	0.00E+00	2.41E-04	1.24E-05	0.00E+00	7.22E-05	2.22E-06	0.00E+00	2.74E-05	7.18E-07	0.00E+00
6688	457593.2	3768992	0.000244	1.25E-05	0.00E+00	2.44E-04	1.25E-05	0.00E+00	7.30E-05	2.25E-06	0.00E+00	2.76E-05	7.25E-07	0.00E+00
6689	457603.2	3768992	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.38E-05	2.27E-06	0.00E+00	2.79E-05	7.33E-07	0.00E+00
6690	457613.2	3768992	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.83E-05	7.41E-07	0.00E+00
6691	457623.1	3768992	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.55E-05	2.32E-06	0.00E+00	2.86E-05	7.50E-07	0.00E+00
6692	457633.1	3768992	0.000255	1.31E-05	0.00E+00	2.55E-04	1.31E-05	0.00E+00	7.64E-05	2.35E-06	0.00E+00	2.89E-05	7.59E-07	0.00E+00
6693	457643.1	3768992	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.72E-05	2.38E-06	0.00E+00	2.92E-05	7.67E-07	0.00E+00
6694	457653	3768992	0.000261	1.34E-05	0.00E+00	2.61E-04	1.34E-05	0.00E+00	7.81E-05	2.40E-06	0.00E+00	2.96E-05	7.76E-07	0.00E+00
6695	457663	3768992	0.000264	1.35E-05	0.00E+00	2.64E-04	1.35E-05	0.00E+00	7.90E-05	2.43E-06	0.00E+00	2.99E-05	7.85E-07	0.00E+00
6696	457673	3768992	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.00E-05	2.46E-06	0.00E+00	3.03E-05	7.95E-07	0.00E+00
6697	457683	3768992	0.000271	1.39E-05	0.00E+00	2.71E-04	1.39E-05	0.00E+00	8.10E-05	2.49E-06	0.00E+00	3.07E-05	8.05E-07	0.00E+00
6698	457692.9	3768992	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.21E-05	2.53E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6699	457702.9	3768992	0.000277	1.42E-05	0.00E+00	2.77E-04	1.42E-05	0.00E+00	8.31E-05	2.56E-06	0.00E+00	3.15E-05	8.25E-07	0.00E+00
6700	457296.8	3769021	0.000179	9.18E-06	0.00E+00	1.79E-04	9.18E-06	0.00E+00	5.36E-05	1.65E-06	0.00E+00	2.03E-05	5.33E-07	0.00E+00
6701	457287.7	3769017	0.000179	9.20E-06	0.00E+00	1.79E-04	9.20E-06	0.00E+00	5.37E-05	1.65E-06	0.00E+00	2.04E-05	5.34E-07	0.00E+00
6702	457278.6	3769013	0.00018	9.22E-06	0.00E+00	1.80E-04	9.22E-06	0.00E+00	5.38E-05	1.66E-06	0.00E+00	2.04E-05	5.35E-07	0.00E+00
6703	457269.5	3769010	0.00018	9.23E-06	0.00E+00	1.80E-04	9.23E-06	0.00E+00	5.39E-05	1.66E-06	0.00E+00	2.04E-05	5.36E-07	0.00E+00
6704	457260.4	3769006	0.00018	9.24E-06	0.00E+00	1.80E-04	9.24E-06	0.00E+00	5.40E-05	1.66E-06	0.00E+00	2.05E-05	5.37E-07	0.00E+00
6705	457251.3	3769002	0.000181	9.26E-06	0.00E+00	1.81E-04	9.26E-06	0.00E+00	5.41E-05	1.66E-06	0.00E+00	2.05E-05	5.37E-07	0.00E+00
6706	457242.2	3768998	0.000181	9.28E-06	0.00E+00	1.81E-04	9.28E-06	0.00E+00	5.42E-05	1.67E-06	0.00E+00	2.05E-05	5.38E-07	0.00E+00
6707	457233.1	3768995	0.000181	9.30E-06	0.00E+00	1.81E-04	9.30E-06	0.00E+00	5.43E-05	1.67E-06	0.00E+00	2.06E-05	5.40E-07	0.00E+00
6708	457224	3768991	0.000182	9.32E-06	0.00E+00	1.82E-04	9.32E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.06E-05	5.41E-07	0.00E+00
6709	457214.9	3768987	0.000182	9.34E-06	0.00E+00	1.82E-04	9.34E-06	0.00E+00	5.46E-05	1.68E-06	0.00E+00	2.07E-05	5.42E-07	0.00E+00
6710	457205.8	3768984	0.000182	9.36E-06	0.00E+00	1.82E-04	9.36E-06	0.00E+00	5.47E-05	1.68E-06	0.00E+00	2.07E-05	5.43E-07	0.00E+00
6711	457196.7	3768980	0.000183	9.37E-06	0.00E+00	1.83E-04	9.37E-06	0.00E+00	5.47E-05	1.68E-06	0.00E+00	2.07E-05	5.44E-07	0.00E+00
6712	457187.7	3768976	0.000183	9.38E-06	0.00E+00	1.83E-04	9.38E-06	0.00E+00	5.48E-05	1.69E-06	0.00E+00	2.08E-05	5.45E-07	0.00E+00
6713	457178.6	3768972	0.000183	9.39E-06	0.00E+00	1.83E-04	9.39E-06	0.00E+00	5.49E-05	1.69E-06	0.00E+00	2.08E-05	5.45E-07	0.00E+00
6714	457169.5	3768969	0.000184	9.41E-06	0.00E+00	1.84E-04	9.41E-06	0.00E+00	5.50E-05	1.69E-06	0.00E+00	2.08E-05	5.46E-07	0.00E+00
6715	457160.4	3768965	0.000184	9.42E-06	0.00E+00	1.84E-04	9.42E-06	0.00E+00	5.51E-05	1.69E-06	0.00E+00	2.09E-05	5.47E-07	0.00E+00
6716	457151.3	3768961	0.000184	9.44E-06	0.00E+00	1.84E-04	9.44E-06	0.00E+00	5.52E-05	1.70E-06	0.00E+00	2.09E-05	5.48E-07	0.00E+00
6717	457142.2	3768957	0.000185	9.46E-06	0.00E+00	1.85E-04	9.46E-06	0.00E+00	5.53E-05	1.70E-06	0.00E+00	2.09E-05	5.49E-07	0.00E+00

6718	457133.1	3768954	0.000185	9.47E-06	0.00E+00	1.85E-04	9.47E-06	0.00E+00	5.53E-05	1.70E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
6719	457124	3768950	0.000185	9.48E-06	0.00E+00	1.85E-04	9.48E-06	0.00E+00	5.54E-05	1.71E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
6720	457114.9	3768946	0.000185	9.49E-06	0.00E+00	1.85E-04	9.49E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6721	457105.8	3768942	0.000185	9.50E-06	0.00E+00	1.85E-04	9.50E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6722	457096.7	3768939	0.000185	9.50E-06	0.00E+00	1.85E-04	9.50E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
6723	457087.6	3768935	0.000185	9.51E-06	0.00E+00	1.85E-04	9.51E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
6724	457078.5	3768931	0.000186	9.51E-06	0.00E+00	1.86E-04	9.51E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
6725	457069.5	3768927	0.000186	9.51E-06	0.00E+00	1.86E-04	9.51E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.52E-07	0.00E+00
6726	457060.4	3768924	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.52E-07	0.00E+00
6727	457051.3	3768920	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6728	457042.2	3768916	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6729	457033.1	3768912	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6730	457024	3768909	0.000186	9.52E-06	0.00E+00	1.86E-04	9.52E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6731	457014.9	3768905	0.000186	9.51E-06	0.00E+00	1.86E-04	9.51E-06	0.00E+00	5.56E-05	1.71E-06	0.00E+00	2.11E-05	5.52E-07	0.00E+00
6732	457005.8	3768901	0.000185	9.51E-06	0.00E+00	1.85E-04	9.51E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.52E-07	0.00E+00
6733	456996.7	3768897	0.000185	9.50E-06	0.00E+00	1.85E-04	9.50E-06	0.00E+00	5.55E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6734	456987.6	3768894	0.000185	9.48E-06	0.00E+00	1.85E-04	9.48E-06	0.00E+00	5.54E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6735	456978.5	3768890	0.000185	9.47E-06	0.00E+00	1.85E-04	9.47E-06	0.00E+00	5.53E-05	1.70E-06	0.00E+00	2.10E-05	5.50E-07	0.00E+00
6736	456969.4	3768886	0.000184	9.46E-06	0.00E+00	1.84E-04	9.46E-06	0.00E+00	5.53E-05	1.70E-06	0.00E+00	2.09E-05	5.49E-07	0.00E+00
6737	456960.3	3768882	0.000184	9.44E-06	0.00E+00	1.84E-04	9.44E-06	0.00E+00	5.52E-05	1.70E-06	0.00E+00	2.09E-05	5.48E-07	0.00E+00
6738	456951.2	3768879	0.000184	9.43E-06	0.00E+00	1.84E-04	9.43E-06	0.00E+00	5.51E-05	1.70E-06	0.00E+00	2.09E-05	5.47E-07	0.00E+00
6739	456942.2	3768875	0.000184	9.41E-06	0.00E+00	1.84E-04	9.41E-06	0.00E+00	5.50E-05	1.69E-06	0.00E+00	2.08E-05	5.46E-07	0.00E+00
6740	456933.1	3768871	0.000183	9.40E-06	0.00E+00	1.83E-04	9.40E-06	0.00E+00	5.49E-05	1.69E-06	0.00E+00	2.08E-05	5.46E-07	0.00E+00
6741	456924	3768868	0.000183	9.38E-06	0.00E+00	1.83E-04	9.38E-06	0.00E+00	5.48E-05	1.69E-06	0.00E+00	2.08E-05	5.44E-07	0.00E+00
6742	456896.7	3768856	0.000181	9.30E-06	0.00E+00	1.81E-04	9.30E-06	0.00E+00	5.43E-05	1.67E-06	0.00E+00	2.06E-05	5.40E-07	0.00E+00
6743	456887.6	3768853	0.000181	9.27E-06	0.00E+00	1.81E-04	9.27E-06	0.00E+00	5.42E-05	1.67E-06	0.00E+00	2.05E-05	5.38E-07	0.00E+00
6744	456878.5	3768849	0.00018	9.24E-06	0.00E+00	1.80E-04	9.24E-06	0.00E+00	5.40E-05	1.66E-06	0.00E+00	2.04E-05	5.36E-07	0.00E+00
6745	456869.4	3768845	0.00018	9.21E-06	0.00E+00	1.80E-04	9.21E-06	0.00E+00	5.38E-05	1.66E-06	0.00E+00	2.04E-05	5.34E-07	0.00E+00
6746	456860.3	3768841	0.000179	9.18E-06	0.00E+00	1.79E-04	9.18E-06	0.00E+00	5.36E-05	1.65E-06	0.00E+00	2.03E-05	5.33E-07	0.00E+00
6747	456851.2	3768838	0.000178	9.14E-06	0.00E+00	1.78E-04	9.14E-06	0.00E+00	5.34E-05	1.64E-06	0.00E+00	2.02E-05	5.31E-07	0.00E+00
6748	456842.1	3768834	0.000178	9.11E-06	0.00E+00	1.78E-04	9.11E-06	0.00E+00	5.32E-05	1.64E-06	0.00E+00	2.02E-05	5.29E-07	0.00E+00
6749	456833	3768830	0.000177	9.07E-06	0.00E+00	1.77E-04	9.07E-06	0.00E+00	5.30E-05	1.63E-06	0.00E+00	2.01E-05	5.27E-07	0.00E+00
6750	456823.9	3768826	0.000176	9.04E-06	0.00E+00	1.76E-04	9.04E-06	0.00E+00	5.28E-05	1.62E-06	0.00E+00	2.00E-05	5.25E-07	0.00E+00
6751	456814.9	3768823	0.000176	9.00E-06	0.00E+00	1.76E-04	9.00E-06	0.00E+00	5.26E-05	1.62E-06	0.00E+00	1.99E-05	5.22E-07	0.00E+00
6752	456805.8	3768819	0.000175	8.96E-06	0.00E+00	1.75E-04	8.96E-06	0.00E+00	5.24E-05	1.61E-06	0.00E+00	1.98E-05	5.20E-07	0.00E+00
6753	456796.7	3768815	0.000174	8.92E-06	0.00E+00	1.74E-04	8.92E-06	0.00E+00	5.21E-05	1.60E-06	0.00E+00	1.97E-05	5.18E-07	0.00E+00
6754	456787.6	3768811	0.000173	8.88E-06	0.00E+00	1.73E-04	8.88E-06	0.00E+00	5.19E-05	1.60E-06	0.00E+00	1.97E-05	5.16E-07	0.00E+00
6755	456778.5	3768808	0.000172	8.84E-06	0.00E+00	1.72E-04	8.84E-06	0.00E+00	5.17E-05	1.59E-06	0.00E+00	1.96E-05	5.13E-07	0.00E+00
6756	456769.4	3768804	0.000172	8.80E-06	0.00E+00	1.72E-04	8.80E-06	0.00E+00	5.14E-05	1.58E-06	0.00E+00	1.95E-05	5.11E-07	0.00E+00
6757	456756.5	3768791	0.000172	8.83E-06	0.00E+00	1.72E-04	8.83E-06	0.00E+00	5.16E-05	1.59E-06	0.00E+00	1.95E-05	5.13E-07	0.00E+00
6758	456752.7	3768782	0.000174	8.90E-06	0.00E+00	1.74E-04	8.90E-06	0.00E+00	5.20E-05	1.60E-06	0.00E+00	1.97E-05	5.17E-07	0.00E+00
6759	456748.9	3768773	0.000175	8.97E-06	0.00E+00	1.75E-04	8.97E-06	0.00E+00	5.24E-05	1.61E-06	0.00E+00	1.99E-05	5.21E-07	0.00E+00
6760	456745	3768764	0.000176	9.05E-06	0.00E+00	1.76E-04	9.05E-06	0.00E+00	5.29E-05	1.63E-06	0.00E+00	2.00E-05	5.25E-07	0.00E+00
6761	456741.2	3768755	0.000178	9.12E-06	0.00E+00	1.78E-04	9.12E-06	0.00E+00	5.33E-05	1.64E-06	0.00E+00	2.02E-05	5.29E-07	0.00E+00
6762	456737.4	3768746	0.000179	9.19E-06	0.00E+00	1.79E-04	9.19E-06	0.00E+00	5.37E-05	1.65E-06	0.00E+00	2.03E-05	5.33E-07	0.00E+00
6763	456733.6	3768737	0.000181	9.26E-06	0.00E+00	1.81E-04	9.26E-06	0.00E+00	5.41E-05	1.67E-06	0.00E+00	2.05E-05	5.38E-07	0.00E+00
6764	456729.8	3768728	0.000182	9.34E-06	0.00E+00	1.82E-04	9.34E-06	0.00E+00	5.46E-05	1.68E-06	0.00E+00	2.07E-05	5.42E-07	0.00E+00
6765	456726	3768719	0.000184	9.41E-06	0.00E+00	1.84E-04	9.41E-06	0.00E+00	5.50E-05	1.69E-06	0.00E+00	2.08E-05	5.46E-07	0.00E+00
6766	456722.1	3768710	0.000185	9.49E-06	0.00E+00	1.85E-04	9.49E-06	0.00E+00	5.54E-05	1.71E-06	0.00E+00	2.10E-05	5.51E-07	0.00E+00
6767	456718.3	3768700	0.000187	9.56E-06	0.00E+00	1.87E-04	9.56E-06	0.00E+00	5.59E-05	1.72E-06	0.00E+00	2.12E-05	5.55E-07	0.00E+00
6768	456714.5	3768691	0.000188	9.64E-06	0.00E+00	1.88E-04	9.64E-06	0.00E+00	5.63E-05	1.73E-06	0.00E+00	2.13E-05	5.59E-07	0.00E+00
6769	456710.7	3768682	0.000189	9.71E-06	0.00E+00	1.89E-04	9.71E-06	0.00E+00	5.68E-05	1.75E-06	0.00E+00	2.15E-05	5.64E-07	0.00E+00
6770	456706.9	3768673	0.000191	9.79E-06	0.00E+00	1.91E-04	9.79E-06	0.00E+00	5.72E-05	1.76E-06	0.00E+00	2.17E-05	5.68E-07	0.00E+00
6771	456703.1	3768664	0.000193	9.87E-06	0.00E+00	1.93E-04	9.87E-06	0.00E+00	5.77E-05	1.77E-06	0.00E+00	2.18E-05	5.73E-07	0.00E+00
6772	456699.2	3768655	0.000194	9.95E-06	0.00E+00	1.94E-04	9.95E-06	0.00E+00	5.81E-05	1.79E-06	0.00E+00	2.20E-05	5.77E-07	0.00E+00
6773	456695.4	3768646	0.000196	1.00E-05	0.00E+00	1.96E-04	1.00E-05	0.00E+00	5.86E-05	1.80E-06	0.00E+00	2.22E-05	5.82E-07	0.00E+00
6774	456691.6	3768637	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.91E-05	1.82E-06	0.00E+00	2.24E-05	5.87E-07	0.00E+00
6775	456687.8	3768628	0.000199	1.02E-05	0.00E+00	1.99E-04	1.02E-05	0.00E+00	5.96E-05	1.83E-06	0.00E+00	2.26E-05	5.92E-07	0.00E+00
6776	456684	3768619	0.0002	1.03E-05	0.00E+00	2.00E-04	1.03E-05	0.00E+00	6.00E-05	1.85E-06	0.00E+00	2.27E-05	5.97E-07	0.00E+00
6777	456680.2	3768610	0.000202	1.04E-05	0.00E+00	2.02E-04	1.04E-05	0.00E+00	6.05E-05	1.86E-06	0.00E+00	2.29E-05	6.01E-07	0.00E+00
6778	456676.3	3768601	0.000204	1.04E-05	0.00E+00	2.04E-04	1.04E-05	0.00E+00	6.10E-05	1.88E-06	0.00E+00	2.31E-05	6.06E-07	0.00E+00
6779	456672.5	3768592	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.15E-05	1.89E-06	0.00E+00	2.33E-05	6.11E-07	0.00E+00
6780	456668.7	3768583	0.000207	1.06E-05	0.00E+00	2.07E-04	1.06E-05	0.00E+00	6.21E-05	1.91E-06	0.00E+00	2.35E-05	6.17E-07	0.00E+00
6781	456664.9	3768574	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.26E-05	1.93E-06	0.00E+00	2.37E-05	6.22E-07	0.00E+00
6782	456661.1	3768565	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.31E-05	1.94E-06	0.00E+00	2.39E-05	6.27E-07	0.00E+00
6783	456657.3	3768555	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.37E-05	1.96E-06	0.00E+00	2.41E-05	6.32E-07	0.00E+00
6784	456653.5	3768546	0.000214	1.10E-05	0.00E+00	2.14E-04	1.10E-05	0.00E+00	6.42E-05	1.98E-06	0.00E+00	2.43E-05	6.38E-07	0.00E+00
6785	456649.6	3768537	0.000216	1.11E-05	0.00E+00	2.16E-04	1.11E-05	0.00E+00	6.48E-05	1.99E-06	0.00E+00	2.45E-05	6.43E-07	0.00E+00
6786	456645.8	3768528	0.000218	1.12E-05	0.00E+00	2.18E-04	1.12E-05	0.00E+00	6.53E-05	2.01E-06	0.00E+00	2.47E-05	6.49E-07	0.00E+00
6787	456642	3768519	0.00022	1.13E-05	0.00E+00	2.20E-04	1.13E-05	0.00E+00	6.59E-05	2.03E-06	0.00E+00	2.50E-05	6.55E-07	0.00E+00
6788	456638.2	3768510	0.000222	1.14E-05	0.00E+00	2.22E-04	1.14E-05	0.00E+00	6.64E-05	2.05E-06	0.00E+00	2.52E-05	6.60E-07	0.00E+00
6789	456634.4	3768501	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.70E-05	2.06E-06	0.00E+00	2.54E-05	6.66E-07	0.00E+00
6790	456630.6	3768492	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.76E-05	2.08E-06	0.00E+00	2.56E-05	6.72E-07	0.00E+00
6791	456626.7	3768483	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.82E-05	2.10E-06	0.00E+00	2.58E-05	6.78E-07	0.00E+00
6792	456622.9	3768474	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.88E-05	2.12E-06	0.00E+00	2.61E-05	6.84E-07	0.00E+00
6793	456619.1	3768465	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.94E-05	2.14E-06	0.00E+00	2.63E-05	6.90E-07	0.00E+00
6794	456615.3	3768456	0.000234	1.20E-05	0.00E+00	2.34E-04	1.20E-05	0.00E+00	7.01E-05	2.16E-06	0.00E+00	2.65E-05	6.96E-07	0.00E+00
6795	456600	3768420	0.000242	1.24E-05	0.00E+00	2.42E-04	1.24E-05	0.00E+00	7.26E-05	2.23E-06	0.00E+00	2.75E-05	7.21E-07	0.00E+00
6796	456596.2	3768410	0.000245	1.25E-05	0.00E+00	2.45E-04	1.25E-05	0.00E+00	7.33E-05	2.25E-06	0.00E+00	2.77E-05	7.28E-07	0.00E+00
6797	456592.4	3768401	0.000247	1.27E-05	0.00E+00	2.47E-04	1.27E-05	0.00E+00	7.39E-05	2.27E-06	0.00E+00	2.80E-05	7.34E-07	0.00E+00
6798	456588.6	3768392	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.82E-05	7.41E-07	0.00E+00
6799	456584.8	3768383	0.000251	1.29E-05	0.00E+00	2.51E-04	1.29E-05	0.00E+00	7.52E-05	2.32E-06	0.00E+00	2.85E-05	7.48E-07	0.00E+00
6800	456580.9	3768374	0.000253	1.30E-05	0.00E+00	2.53E-04	1.30E-05	0.00E+00	7.59E-05	2.34E-06	0.00E+00	2.88E-05	7.54E-07	0.00E+00
6801	456577.1	3768365	0.000256	1.31E-05	0.00E+00	2.56E-04	1.31E-05	0.00E+00	7.66E-05	2.36E-06	0.00E+00	2.90E-05	7.61E-07	0.00E+00
6802	456573.3	3768356	0.000258	1.32E-05	0.00E+00	2.58E-04	1.32E-05	0.00E+00	7.73E-05	2.38E-06	0.00E+00	2.93E-05	7.68E-07	0.00E+00
6803	456569.5	3768347	0.00026	1.33E-05	0.00E+00	2.60E-04	1.33E-05	0.00E+00	7.79E-05	2.40E-06	0.00E+00	2.95E-05	7.74E-07	0.00E+00
6804	456565.7	3768338	0.000262	1.35E-05	0.00E+00	2.62E-04	1.35E-05	0.00E+00	7.86E-05	2.42E-06	0.00E+00	2.98E-05	7.81E-07	0.00E+00
6805	456561.9	3768329	0.000265	1.36E-05	0.00E+00	2.65E-04	1.36E-05	0.00E+00	7.93E-05	2.44E-06	0.00E+00	3.00E-05	7.88E-07	0.00E+00
6806	456558.1	3768320	0.000267	1.37E-05	0.00E+00	2.67E-04	1.37E-05	0.00E+00	8.00E-05	2.46E-06	0.00E+00	3.03E-05	7.94E-07	0.00E+00
6807	456554.2	3768311	0.000269	1.38E-05	0.00E+00	2.69E-04	1.38E-05	0.00E+00	8.06E-05	2.48E-06	0.00E+00	3.05E-05	8.01E-07	0.00E+00
6808	456550.4	3768302	0.000272	1.39E-05	0.00E+00	2.72E-04	1.39E-05	0.00E+00	8.13E-05	2.50E-06	0.00E+00	3.08E-05	8.08E-07	0.00E+00
6809	456546.6	3768293	0.000274	1.40E-05	0.00E+00	2.74E-04	1.40E-05	0.00E+00	8.20E-05	2.52E-06	0.00E+00	3.11E-05	8.15E-07	0.00E+00
6810	456542.8	3768284	0.000276	1.42E-05	0.00E+00	2.76E-04	1.42E-05	0.00E+00	8.27E-05	2.54E-06	0.00E+00	3.13E-05	8.21E-07	0.00E+00
6811	456539	3768275	0.000278	1.43E-05	0.00E+00	2.78E-04	1.43E-05	0.00E+00	8.34E-05	2.57E-06	0.00E+00	3.16E-05	8.28E-07	0.00E+00
6812	456535.2	3768265	0.000281	1.44E-05	0.00E+00	2.81E-04	1.44E-05	0.00E+00	8.40E-05	2.59E-06	0.00E+00	3.18E-05	8.35E-07	0.00E+00
6813	456531.3	3768256	0.000283	1.45E-05	0.00E+00	2.83E-04	1.45E-05	0.00E+00	8.47E-05	2.61E-06	0.00E+00	3.21E-05	8.42E-07	0.00E+00

6814	456527.5	3768247	0.000285	1.46E-05	0.00E+00	2.85E-04	1.46E-05	0.00E+00	8.54E-05	2.63E-06	0.00E+00	3.23E-05	8.48E-07	0.00E+00
6815	457334	3769032	0.000179	9.20E-06	0.00E+00	1.79E-04	9.20E-06	0.00E+00	5.37E-05	1.65E-06	0.00E+00	2.04E-05	5.34E-07	0.00E+00
6816	457344	3769032	0.000181	9.26E-06	0.00E+00	1.81E-04	9.26E-06	0.00E+00	5.41E-05	1.67E-06	0.00E+00	2.05E-05	5.38E-07	0.00E+00
6817	457354	3769032	0.000182	9.33E-06	0.00E+00	1.82E-04	9.33E-06	0.00E+00	5.45E-05	1.68E-06	0.00E+00	2.06E-05	5.41E-07	0.00E+00
6818	457363.9	3769032	0.000183	9.39E-06	0.00E+00	1.83E-04	9.39E-06	0.00E+00	5.49E-05	1.69E-06	0.00E+00	2.08E-05	5.45E-07	0.00E+00
6819	457373.9	3769032	0.000185	9.46E-06	0.00E+00	1.85E-04	9.46E-06	0.00E+00	5.53E-05	1.70E-06	0.00E+00	2.09E-05	5.49E-07	0.00E+00
6820	457383.9	3769032	0.000186	9.53E-06	0.00E+00	1.86E-04	9.53E-06	0.00E+00	5.57E-05	1.71E-06	0.00E+00	2.11E-05	5.53E-07	0.00E+00
6821	457393.8	3769032	0.000187	9.60E-06	0.00E+00	1.87E-04	9.60E-06	0.00E+00	5.61E-05	1.73E-06	0.00E+00	2.13E-05	5.57E-07	0.00E+00
6822	457403.8	3769032	0.000189	9.68E-06	0.00E+00	1.89E-04	9.68E-06	0.00E+00	5.65E-05	1.74E-06	0.00E+00	2.14E-05	5.62E-07	0.00E+00
6823	457413.8	3769032	0.00019	9.76E-06	0.00E+00	1.90E-04	9.76E-06	0.00E+00	5.70E-05	1.75E-06	0.00E+00	2.16E-05	5.66E-07	0.00E+00
6824	457423.7	3769032	0.000192	9.83E-06	0.00E+00	1.92E-04	9.83E-06	0.00E+00	5.75E-05	1.77E-06	0.00E+00	2.18E-05	5.71E-07	0.00E+00
6825	457433.7	3769032	0.000193	9.91E-06	0.00E+00	1.93E-04	9.91E-06	0.00E+00	5.79E-05	1.78E-06	0.00E+00	2.19E-05	5.75E-07	0.00E+00
6826	457443.7	3769032	0.000195	9.99E-06	0.00E+00	1.95E-04	9.99E-06	0.00E+00	5.84E-05	1.80E-06	0.00E+00	2.21E-05	5.80E-07	0.00E+00
6827	457453.7	3769032	0.000197	1.01E-05	0.00E+00	1.97E-04	1.01E-05	0.00E+00	5.89E-05	1.81E-06	0.00E+00	2.23E-05	5.85E-07	0.00E+00
6828	457463.6	3769032	0.000198	1.02E-05	0.00E+00	1.98E-04	1.02E-05	0.00E+00	5.94E-05	1.83E-06	0.00E+00	2.25E-05	5.90E-07	0.00E+00
6829	457473.6	3769032	0.0002	1.03E-05	0.00E+00	2.00E-04	1.03E-05	0.00E+00	5.99E-05	1.84E-06	0.00E+00	2.27E-05	5.95E-07	0.00E+00
6830	457483.6	3769032	0.000202	1.03E-05	0.00E+00	2.02E-04	1.03E-05	0.00E+00	6.04E-05	1.86E-06	0.00E+00	2.29E-05	6.00E-07	0.00E+00
6831	457493.5	3769032	0.000203	1.04E-05	0.00E+00	2.03E-04	1.04E-05	0.00E+00	6.09E-05	1.87E-06	0.00E+00	2.31E-05	6.05E-07	0.00E+00
6832	457503.5	3769032	0.000205	1.05E-05	0.00E+00	2.05E-04	1.05E-05	0.00E+00	6.14E-05	1.89E-06	0.00E+00	2.32E-05	6.10E-07	0.00E+00
6833	457513.5	3769032	0.000207	1.06E-05	0.00E+00	2.07E-04	1.06E-05	0.00E+00	6.19E-05	1.90E-06	0.00E+00	2.34E-05	6.15E-07	0.00E+00
6834	457523.4	3769032	0.000209	1.07E-05	0.00E+00	2.09E-04	1.07E-05	0.00E+00	6.25E-05	1.92E-06	0.00E+00	2.37E-05	6.21E-07	0.00E+00
6835	457533.4	3769032	0.000211	1.08E-05	0.00E+00	2.11E-04	1.08E-05	0.00E+00	6.31E-05	1.94E-06	0.00E+00	2.39E-05	6.26E-07	0.00E+00
6836	457543.4	3769032	0.000213	1.09E-05	0.00E+00	2.13E-04	1.09E-05	0.00E+00	6.37E-05	1.96E-06	0.00E+00	2.41E-05	6.33E-07	0.00E+00
6837	457553.4	3769032	0.000215	1.10E-05	0.00E+00	2.15E-04	1.10E-05	0.00E+00	6.43E-05	1.98E-06	0.00E+00	2.44E-05	6.39E-07	0.00E+00
6838	457563.3	3769032	0.000217	1.11E-05	0.00E+00	2.17E-04	1.11E-05	0.00E+00	6.50E-05	2.00E-06	0.00E+00	2.46E-05	6.45E-07	0.00E+00
6839	457573.3	3769032	0.000219	1.12E-05	0.00E+00	2.19E-04	1.12E-05	0.00E+00	6.56E-05	2.02E-06	0.00E+00	2.49E-05	6.52E-07	0.00E+00
6840	457583.3	3769032	0.000221	1.14E-05	0.00E+00	2.21E-04	1.14E-05	0.00E+00	6.63E-05	2.04E-06	0.00E+00	2.51E-05	6.59E-07	0.00E+00
6841	457593.2	3769032	0.000224	1.15E-05	0.00E+00	2.24E-04	1.15E-05	0.00E+00	6.70E-05	2.06E-06	0.00E+00	2.54E-05	6.66E-07	0.00E+00
6842	457603.2	3769032	0.000226	1.16E-05	0.00E+00	2.26E-04	1.16E-05	0.00E+00	6.77E-05	2.08E-06	0.00E+00	2.56E-05	6.73E-07	0.00E+00
6843	457613.2	3769032	0.000228	1.17E-05	0.00E+00	2.28E-04	1.17E-05	0.00E+00	6.83E-05	2.10E-06	0.00E+00	2.59E-05	6.79E-07	0.00E+00
6844	457623.2	3769032	0.00023	1.18E-05	0.00E+00	2.30E-04	1.18E-05	0.00E+00	6.89E-05	2.12E-06	0.00E+00	2.61E-05	6.85E-07	0.00E+00
6845	457633.1	3769032	0.000232	1.19E-05	0.00E+00	2.32E-04	1.19E-05	0.00E+00	6.96E-05	2.14E-06	0.00E+00	2.64E-05	6.92E-07	0.00E+00
6846	457643.1	3769032	0.000235	1.20E-05	0.00E+00	2.35E-04	1.20E-05	0.00E+00	7.04E-05	2.17E-06	0.00E+00	2.67E-05	6.99E-07	0.00E+00
6847	457653.1	3769032	0.000238	1.22E-05	0.00E+00	2.38E-04	1.22E-05	0.00E+00	7.12E-05	2.19E-06	0.00E+00	2.70E-05	7.07E-07	0.00E+00
6848	457663	3769032	0.00024	1.23E-05	0.00E+00	2.40E-04	1.23E-05	0.00E+00	7.20E-05	2.22E-06	0.00E+00	2.73E-05	7.15E-07	0.00E+00
6849	457673	3769032	0.000243	1.25E-05	0.00E+00	2.43E-04	1.25E-05	0.00E+00	7.28E-05	2.24E-06	0.00E+00	2.76E-05	7.23E-07	0.00E+00
6850	457683	3769032	0.000246	1.26E-05	0.00E+00	2.46E-04	1.26E-05	0.00E+00	7.37E-05	2.27E-06	0.00E+00	2.79E-05	7.32E-07	0.00E+00
6851	457692.9	3769032	0.000249	1.28E-05	0.00E+00	2.49E-04	1.28E-05	0.00E+00	7.46E-05	2.30E-06	0.00E+00	2.83E-05	7.41E-07	0.00E+00
6852	457702.9	3769032	0.000252	1.29E-05	0.00E+00	2.52E-04	1.29E-05	0.00E+00	7.55E-05	2.32E-06	0.00E+00	2.86E-05	7.50E-07	0.00E+00
6853	456713.9	3767325	0.000754	3.87E-05	0.00E+00	7.54E-04	3.87E-05	0.00E+00	2.26E-04	6.95E-06	0.00E+00	8.56E-05	2.24E-06	0.00E+00
6854	456743.9	3767325	0.000789	4.05E-05	0.00E+00	7.89E-04	4.05E-05	0.00E+00	2.36E-04	7.28E-06	0.00E+00	8.96E-05	2.35E-06	0.00E+00
6855	456773.9	3767325	0.000826	4.23E-05	0.00E+00	8.26E-04	4.23E-05	0.00E+00	2.47E-04	7.61E-06	0.00E+00	9.37E-05	2.46E-06	0.00E+00
6856	456713.9	3767355	0.000766	3.93E-05	0.00E+00	7.66E-04	3.93E-05	0.00E+00	2.30E-04	7.06E-06	0.00E+00	8.69E-05	2.28E-06	0.00E+00
6857	456743.9	3767355	0.000804	4.12E-05	0.00E+00	8.04E-04	4.12E-05	0.00E+00	2.41E-04	7.41E-06	0.00E+00	9.12E-05	2.39E-06	0.00E+00
6858	456713.9	3767385	0.000778	3.99E-05	0.00E+00	7.78E-04	3.99E-05	0.00E+00	2.33E-04	7.17E-06	0.00E+00	8.82E-05	2.31E-06	0.00E+00

			UnMitigated	T2	T2L3	T4
			1.42E-01	1.42E-01	4.24E-02	1.61E-02
			Yr 1	Yr 1	Yr 1	Yr 1
1	457721.3	3768126	1.42E-01	1.42E-01	4.24E-02	1.61E-02
2	457732.4	3768222	1.15E-01	1.15E-01	3.44E-02	1.30E-02
3	457732.3	3768212	1.23E-01	1.23E-01	3.68E-02	1.39E-02
4	457732.2	3768203	1.29E-01	1.29E-01	3.87E-02	1.46E-02
5	457732.1	3768193	1.33E-01	1.33E-01	3.98E-02	1.51E-02
6	457732	3768183	1.35E-01	1.35E-01	4.03E-02	1.53E-02
7	457731.9	3768174	1.35E-01	1.35E-01	4.04E-02	1.53E-02
8	457731.8	3768164	1.34E-01	1.34E-01	4.00E-02	1.52E-02
9	457731.7	3768155	1.31E-01	1.31E-01	3.94E-02	1.49E-02
10	457731.5	3768145	1.28E-01	1.28E-01	3.84E-02	1.45E-02
11	457731.4	3768135	1.24E-01	1.24E-01	3.70E-02	1.40E-02
12	457731.3	3768126	1.18E-01	1.18E-01	3.55E-02	1.34E-02
13	457739.7	3768239	9.40E-02	9.40E-02	2.81E-02	1.07E-02
14	457733.9	3768253	8.55E-02	8.55E-02	2.56E-02	9.71E-03
15	457742.4	3768222	1.04E-01	1.04E-01	3.11E-02	1.18E-02
16	457742.3	3768212	1.10E-01	1.10E-01	3.28E-02	1.24E-02
17	457742.2	3768203	1.14E-01	1.14E-01	3.42E-02	1.29E-02
18	457742.1	3768193	1.17E-01	1.17E-01	3.50E-02	1.33E-02
19	457742	3768183	1.18E-01	1.18E-01	3.53E-02	1.34E-02
20	457741.9	3768174	1.18E-01	1.18E-01	3.53E-02	1.34E-02
21	457741.8	3768164	1.16E-01	1.16E-01	3.48E-02	1.32E-02
22	457741.7	3768154	1.14E-01	1.14E-01	3.41E-02	1.29E-02
23	457741.5	3768145	1.11E-01	1.11E-01	3.31E-02	1.25E-02
24	457741.4	3768135	1.06E-01	1.06E-01	3.19E-02	1.21E-02
25	457741.3	3768126	1.01E-01	1.01E-01	3.03E-02	1.15E-02
26	457748.9	3768240	8.68E-02	8.68E-02	2.60E-02	9.85E-03
27	457745.3	3768249	8.30E-02	8.30E-02	2.49E-02	9.42E-03
28	457741.7	3768258	7.85E-02	7.85E-02	2.35E-02	8.91E-03
29	457752.6	3768231	8.96E-02	8.96E-02	2.68E-02	1.02E-02
30	457752.4	3768222	9.46E-02	9.46E-02	2.83E-02	1.07E-02
31	457752.3	3768212	9.89E-02	9.89E-02	2.96E-02	1.12E-02
32	457752.2	3768203	1.02E-01	1.02E-01	3.06E-02	1.16E-02
33	457752.1	3768193	1.04E-01	1.04E-01	3.11E-02	1.18E-02
34	457752	3768183	1.05E-01	1.05E-01	3.13E-02	1.19E-02
35	457751.9	3768174	1.04E-01	1.04E-01	3.12E-02	1.18E-02
36	457751.8	3768164	1.03E-01	1.03E-01	3.07E-02	1.16E-02
37	457751.7	3768154	1.00E-01	1.00E-01	3.00E-02	1.14E-02
38	457751.5	3768145	9.68E-02	9.68E-02	2.90E-02	1.10E-02
39	457751.4	3768135	9.28E-02	9.28E-02	2.78E-02	1.05E-02
40	457750.8	3768077	5.58E-02	5.58E-02	1.67E-02	6.33E-03
41	457750.6	3768068	4.91E-02	4.91E-02	1.47E-02	5.57E-03
42	457750.5	3768058	4.31E-02	4.31E-02	1.29E-02	4.89E-03
43	457750.4	3768048	3.78E-02	3.78E-02	1.13E-02	4.29E-03
44	457750.3	3768039	3.34E-02	3.34E-02	1.00E-02	3.79E-03

45	457750.2	3768029	2.98E-02	2.98E-02	8.93E-03	3.38E-03
46	457759.1	3768240	8.12E-02	8.12E-02	2.43E-02	9.21E-03
47	457755.6	3768248	7.86E-02	7.86E-02	2.35E-02	8.91E-03
48	457752.2	3768257	7.53E-02	7.53E-02	2.25E-02	8.54E-03
49	457748.7	3768266	7.16E-02	7.16E-02	2.14E-02	8.12E-03
50	457736.7	3768278	6.73E-02	6.73E-02	2.02E-02	7.64E-03
51	457762.6	3768231	8.30E-02	8.30E-02	2.48E-02	9.41E-03
52	457762.4	3768222	8.67E-02	8.67E-02	2.60E-02	9.84E-03
53	457762.3	3768212	8.99E-02	8.99E-02	2.69E-02	1.02E-02
54	457762.2	3768202	9.21E-02	9.21E-02	2.76E-02	1.04E-02
55	457762.1	3768193	9.33E-02	9.33E-02	2.79E-02	1.06E-02
56	457762	3768183	9.36E-02	9.36E-02	2.80E-02	1.06E-02
57	457761.9	3768173	9.29E-02	9.29E-02	2.78E-02	1.05E-02
58	457761.8	3768164	9.13E-02	9.13E-02	2.73E-02	1.04E-02
59	457761.7	3768154	8.89E-02	8.89E-02	2.66E-02	1.01E-02
60	457761.5	3768145	8.58E-02	8.58E-02	2.57E-02	9.73E-03
61	457761.4	3768135	8.20E-02	8.20E-02	2.46E-02	9.30E-03
62	457760.8	3768077	4.98E-02	4.98E-02	1.49E-02	5.65E-03
63	457760.6	3768067	4.42E-02	4.42E-02	1.32E-02	5.02E-03
64	457760.5	3768058	3.91E-02	3.91E-02	1.17E-02	4.44E-03
65	457760.4	3768048	3.47E-02	3.47E-02	1.04E-02	3.94E-03
66	457760.3	3768039	3.09E-02	3.09E-02	9.25E-03	3.50E-03
67	457760.2	3768029	2.77E-02	2.77E-02	8.30E-03	3.14E-03
68	457769.2	3768240	7.59E-02	7.59E-02	2.27E-02	8.61E-03
69	457762.5	3768256	7.17E-02	7.17E-02	2.15E-02	8.14E-03
70	457755.7	3768273	6.57E-02	6.57E-02	1.97E-02	7.45E-03
71	457744.1	3768285	6.22E-02	6.22E-02	1.86E-02	7.05E-03
72	457735.8	3768288	6.15E-02	6.15E-02	1.84E-02	6.98E-03
73	457772.4	3768222	7.99E-02	7.99E-02	2.39E-02	9.06E-03
74	457772.3	3768212	8.21E-02	8.21E-02	2.46E-02	9.32E-03
75	457772.2	3768202	8.37E-02	8.37E-02	2.51E-02	9.49E-03
76	457772.1	3768193	8.44E-02	8.44E-02	2.53E-02	9.57E-03
77	457772	3768183	8.44E-02	8.44E-02	2.53E-02	9.57E-03
78	457771.9	3768173	8.35E-02	8.35E-02	2.50E-02	9.48E-03
79	457771.8	3768164	8.20E-02	8.20E-02	2.45E-02	9.30E-03
80	457771.7	3768154	7.96E-02	7.96E-02	2.38E-02	9.03E-03
81	457771.5	3768144	7.67E-02	7.67E-02	2.30E-02	8.70E-03
82	457771.4	3768135	7.32E-02	7.32E-02	2.19E-02	8.30E-03
83	457770.8	3768077	4.49E-02	4.49E-02	1.35E-02	5.10E-03
84	457770.6	3768067	4.02E-02	4.02E-02	1.20E-02	4.56E-03
85	457770.5	3768058	3.59E-02	3.59E-02	1.07E-02	4.07E-03
86	457770.4	3768048	3.20E-02	3.20E-02	9.60E-03	3.63E-03
87	457770.3	3768038	2.87E-02	2.87E-02	8.60E-03	3.26E-03
88	457770.2	3768029	2.59E-02	2.59E-02	7.76E-03	2.94E-03
89	457779.3	3768239	7.10E-02	7.10E-02	2.13E-02	8.06E-03
90	457772.7	3768256	6.81E-02	6.81E-02	2.04E-02	7.73E-03
91	457766.1	3768272	6.34E-02	6.34E-02	1.90E-02	7.19E-03

92	457751.3	3768292	5.76E-02	5.76E-02	1.73E-02	6.53E-03
93	457735.1	3768298	5.63E-02	5.63E-02	1.69E-02	6.39E-03
94	457782.4	3768221	7.38E-02	7.38E-02	2.21E-02	8.37E-03
95	457782.3	3768212	7.55E-02	7.55E-02	2.26E-02	8.56E-03
96	457782.2	3768202	7.65E-02	7.65E-02	2.29E-02	8.67E-03
97	457782.1	3768193	7.68E-02	7.68E-02	2.30E-02	8.72E-03
98	457782	3768183	7.66E-02	7.66E-02	2.29E-02	8.69E-03
99	457781.9	3768173	7.56E-02	7.56E-02	2.27E-02	8.58E-03
100	457781.8	3768164	7.40E-02	7.40E-02	2.22E-02	8.40E-03
101	457781.7	3768154	7.18E-02	7.18E-02	2.15E-02	8.15E-03
102	457781.5	3768144	6.91E-02	6.91E-02	2.07E-02	7.83E-03
103	457781.4	3768135	6.58E-02	6.58E-02	1.97E-02	7.47E-03
104	457780.8	3768077	4.10E-02	4.10E-02	1.23E-02	4.65E-03
105	457780.6	3768067	3.69E-02	3.69E-02	1.10E-02	4.18E-03
106	457780.5	3768058	3.31E-02	3.31E-02	9.92E-03	3.76E-03
107	457780.4	3768048	2.97E-02	2.97E-02	8.91E-03	3.38E-03
108	457780.3	3768038	2.68E-02	2.68E-02	8.04E-03	3.04E-03
109	457780.2	3768029	2.43E-02	2.43E-02	7.28E-03	2.76E-03
110	457789.3	3768239	6.65E-02	6.65E-02	1.99E-02	7.54E-03
111	457782.8	3768255	6.45E-02	6.45E-02	1.93E-02	7.32E-03
112	457776.3	3768271	6.09E-02	6.09E-02	1.82E-02	6.91E-03
113	457769.8	3768287	5.62E-02	5.62E-02	1.68E-02	6.38E-03
114	457758.6	3768299	5.36E-02	5.36E-02	1.60E-02	6.08E-03
115	457742.6	3768305	5.25E-02	5.25E-02	1.57E-02	5.96E-03
116	457792.4	3768221	6.84E-02	6.84E-02	2.05E-02	7.77E-03
117	457792.3	3768212	0.0696273	6.96E-02	2.09E-02	7.90E-03
118	457792.2	3768202	0.0702616	7.03E-02	2.10E-02	7.97E-03
119	457792.1	3768192	0.0703466	7.03E-02	2.11E-02	7.98E-03
120	457792	3768183	0.0698725	6.99E-02	2.09E-02	7.93E-03
121	457791.9	3768173	0.0688283	6.88E-02	2.06E-02	7.81E-03
122	457791.8	3768163	0.0672284	6.72E-02	2.01E-02	7.63E-03
123	457791.6	3768154	0.0651071	6.51E-02	1.95E-02	7.39E-03
124	457791.5	3768144	0.0625278	6.25E-02	1.87E-02	7.09E-03
125	457791.4	3768135	0.0595655	5.96E-02	1.78E-02	6.76E-03
126	457790.8	3768077	0.0376187	3.76E-02	1.13E-02	4.27E-03
127	457790.6	3768067	0.0340654	3.41E-02	1.02E-02	3.86E-03
128	457790.5	3768057	0.0307741	3.08E-02	9.22E-03	3.49E-03
129	457790.4	3768048	0.0278016	2.78E-02	8.33E-03	3.15E-03
130	457790.3	3768038	0.0251847	2.52E-02	7.54E-03	2.86E-03
131	457790.2	3768029	0.0229029	2.29E-02	6.86E-03	2.60E-03
132	457798.9	3768240	0.0622774	6.23E-02	1.87E-02	7.07E-03
133	457795.3	3768249	0.0616895	6.17E-02	1.85E-02	7.00E-03
134	457791.7	3768258	0.0606268	6.06E-02	1.82E-02	6.88E-03
135	457788.1	3768267	0.0591108	5.91E-02	1.77E-02	6.71E-03
136	457784.5	3768275	0.0572158	5.72E-02	1.71E-02	6.49E-03
137	457780.9	3768284	0.0550194	5.50E-02	1.65E-02	6.24E-03
138	457777.3	3768293	0.0526656	5.27E-02	1.58E-02	5.98E-03

139	457764.8	3768306	0.0499923	5.00E-02	1.50E-02	5.67E-03
140	457755.9	3768310	0.0495352	4.95E-02	1.48E-02	5.62E-03
141	457747	3768313	0.0488335	4.88E-02	1.46E-02	5.54E-03
142	457738.1	3768317	0.0479572	4.80E-02	1.44E-02	5.44E-03
143	457802.5	3768231	0.0623661	6.24E-02	1.87E-02	7.08E-03
144	457802.4	3768221	0.0636433	6.36E-02	1.91E-02	7.22E-03
145	457802.3	3768212	0.0644699	6.45E-02	1.93E-02	7.31E-03
146	457802.2	3768202	0.0648226	6.48E-02	1.94E-02	7.35E-03
147	457802.1	3768192	0.0646897	6.47E-02	1.94E-02	7.34E-03
148	457802	3768183	0.0640646	6.41E-02	1.92E-02	7.27E-03
149	457801.9	3768173	0.0629502	6.30E-02	1.89E-02	7.14E-03
150	457801.8	3768163	0.0613688	6.14E-02	1.84E-02	6.96E-03
151	457801.6	3768154	0.0593542	5.94E-02	1.78E-02	6.73E-03
152	457801.5	3768144	0.0569582	5.70E-02	1.71E-02	6.46E-03
153	457801.4	3768134	0.0542447	5.42E-02	1.62E-02	6.15E-03
154	457800.8	3768077	0.0347631	3.48E-02	1.04E-02	3.94E-03
155	457800.6	3768067	0.0316377	3.16E-02	9.48E-03	3.59E-03
156	457800.5	3768057	0.0287284	2.87E-02	8.60E-03	3.26E-03
157	457800.4	3768048	0.0260801	2.61E-02	7.81E-03	2.96E-03
158	457800.3	3768038	0.0237205	2.37E-02	7.10E-03	2.69E-03
159	457800.2	3768028	0.0216401	2.16E-02	6.48E-03	2.46E-03
160	457823.9	3768239	0.0533413	5.33E-02	1.60E-02	6.05E-03
161	457820.3	3768248	0.0533437	5.33E-02	1.60E-02	6.05E-03
162	457816.7	3768257	0.0529729	5.30E-02	1.59E-02	6.01E-03
163	457813.1	3768266	0.0522826	5.23E-02	1.57E-02	5.93E-03
164	457809.5	3768275	0.0512694	5.13E-02	1.54E-02	5.82E-03
165	457805.9	3768284	0.0499789	5.00E-02	1.50E-02	5.67E-03
166	457802.3	3768293	0.04845	4.84E-02	1.45E-02	5.50E-03
167	457798.7	3768302	0.0467349	4.67E-02	1.40E-02	5.30E-03
168	457795.1	3768311	0.0448842	4.49E-02	1.34E-02	5.09E-03
169	457782.6	3768324	0.0427537	4.28E-02	1.28E-02	4.85E-03
170	457773.7	3768327	0.0423908	4.24E-02	1.27E-02	4.81E-03
171	457764.8	3768331	0.0418522	4.19E-02	1.25E-02	4.75E-03
172	457755.9	3768335	0.041156	4.12E-02	1.23E-02	4.67E-03
173	457747	3768338	0.0403159	4.03E-02	1.21E-02	4.57E-03
174	457738.2	3768342	0.0393552	3.94E-02	1.18E-02	4.47E-03
175	457827.5	3768231	0.0529568	5.30E-02	1.59E-02	6.01E-03
176	457827.4	3768221	0.0535402	5.35E-02	1.60E-02	6.07E-03
177	457827.3	3768211	0.0538111	5.38E-02	1.61E-02	6.11E-03
178	457827.2	3768202	0.0537452	5.37E-02	1.61E-02	6.10E-03
179	457827.1	3768192	0.0533113	5.33E-02	1.60E-02	6.05E-03
180	457827	3768182	0.0525121	5.25E-02	1.57E-02	5.96E-03
181	457826.9	3768173	0.0513763	5.14E-02	1.54E-02	5.83E-03
182	457826.8	3768163	0.0499308	4.99E-02	1.50E-02	5.66E-03
183	457826.6	3768153	0.0481932	4.82E-02	1.44E-02	5.47E-03
184	457826.5	3768144	0.0462047	4.62E-02	1.38E-02	5.24E-03
185	457826.4	3768134	0.0440101	4.40E-02	1.32E-02	4.99E-03

186	457825.7	3768076	0.0291486	2.91E-02	8.73E-03	3.31E-03
187	457825.6	3768067	0.0267908	2.68E-02	8.02E-03	3.04E-03
188	457825.5	3768057	0.0245834	2.46E-02	7.36E-03	2.79E-03
189	457825.4	3768047	0.0225438	2.25E-02	6.75E-03	2.56E-03
190	457825.3	3768038	0.0206879	2.07E-02	6.20E-03	2.35E-03
191	457825.2	3768028	0.0190163	1.90E-02	5.70E-03	2.16E-03
192	457848.9	3768239	0.0460793	4.61E-02	1.38E-02	5.23E-03
193	457845.3	3768248	0.046418	4.64E-02	1.39E-02	5.27E-03
194	457841.7	3768257	0.0464865	4.65E-02	1.39E-02	5.27E-03
195	457838.1	3768266	0.0462844	4.63E-02	1.39E-02	5.25E-03
196	457834.5	3768275	0.0458196	4.58E-02	1.37E-02	5.20E-03
197	457830.9	3768284	0.0451111	4.51E-02	1.35E-02	5.12E-03
198	457827.3	3768293	0.0441846	4.42E-02	1.32E-02	5.01E-03
199	457823.7	3768302	0.0430672	4.31E-02	1.29E-02	4.89E-03
200	457820.1	3768311	0.0417881	4.18E-02	1.25E-02	4.74E-03
201	457816.5	3768320	0.041771	4.18E-02	1.25E-02	4.74E-03
202	457812.9	3768328	0.040091	4.01E-02	1.20E-02	4.55E-03
203	457800.4	3768341	0.0371356	3.71E-02	1.11E-02	4.21E-03
204	457791.5	3768345	0.0368306	3.68E-02	1.10E-02	4.18E-03
205	457782.6	3768349	0.036958	3.70E-02	1.11E-02	4.19E-03
206	457773.7	3768352	0.0358398	3.58E-02	1.07E-02	4.07E-03
207	457764.8	3768356	0.0351703	3.52E-02	1.05E-02	3.99E-03
208	457755.9	3768360	0.0344026	3.44E-02	1.03E-02	3.90E-03
209	457747.1	3768363	0.0335452	3.35E-02	1.00E-02	3.81E-03
210	457738.2	3768367	0.0326164	3.26E-02	9.77E-03	3.70E-03
211	457852.5	3768230	0.0454719	4.55E-02	1.36E-02	5.16E-03
212	457852.4	3768221	0.0456438	4.56E-02	1.37E-02	5.18E-03
213	457852.3	3768211	0.0455836	4.56E-02	1.37E-02	5.17E-03
214	457852.2	3768201	0.0452784	4.53E-02	1.36E-02	5.14E-03
215	457852.1	3768192	0.0447162	4.47E-02	1.34E-02	5.07E-03
216	457852	3768182	0.0439019	4.39E-02	1.31E-02	4.98E-03
217	457851.9	3768172	0.0428532	4.29E-02	1.28E-02	4.86E-03
218	457851.8	3768163	0.0415815	4.16E-02	1.25E-02	4.72E-03
219	457851.6	3768153	0.0401027	4.01E-02	1.20E-02	4.55E-03
220	457851.5	3768144	0.0384535	3.85E-02	1.15E-02	4.36E-03
221	457851.4	3768134	0.0366654	3.67E-02	1.10E-02	4.16E-03
222	457850.7	3768076	0.0249632	2.50E-02	7.48E-03	2.83E-03
223	457850.6	3768066	0.0231334	2.31E-02	6.93E-03	2.62E-03
224	457850.5	3768057	0.0214069	2.14E-02	6.41E-03	2.43E-03
225	457850.4	3768047	0.0197953	1.98E-02	5.93E-03	2.25E-03
226	457850.3	3768037	0.0183004	1.83E-02	5.48E-03	2.08E-03
227	457850.2	3768028	0.0169343	1.69E-02	5.07E-03	1.92E-03
228	457873.9	3768239	0.0401439	4.01E-02	1.20E-02	4.55E-03
229	457870.3	3768248	0.0406473	4.06E-02	1.22E-02	4.61E-03
230	457866.7	3768257	0.0409455	4.09E-02	1.23E-02	4.65E-03
231	457863.1	3768266	0.0410379	4.10E-02	1.23E-02	4.66E-03
232	457859.5	3768275	0.040924	4.09E-02	1.23E-02	4.64E-03

233	457855.9	3768284	0.0406064	4.06E-02	1.22E-02	4.61E-03
234	457852.3	3768292	0.0419302	4.19E-02	1.26E-02	4.76E-03
235	457848.7	3768301	0.0411804	4.12E-02	1.23E-02	4.67E-03
236	457845.1	3768310	0.0402375	4.02E-02	1.21E-02	4.57E-03
237	457841.5	3768319	0.0391403	3.91E-02	1.17E-02	4.44E-03
238	457837.9	3768328	0.0379356	3.79E-02	1.14E-02	4.30E-03
239	457834.3	3768337	0.0366156	3.66E-02	1.10E-02	4.15E-03
240	457830.7	3768346	0.035207	3.52E-02	1.05E-02	3.99E-03
241	457818.2	3768359	0.0334358	3.34E-02	1.00E-02	3.79E-03
242	457809.3	3768362	0.0330258	3.30E-02	9.89E-03	3.75E-03
243	457800.4	3768366	0.0325148	3.25E-02	9.74E-03	3.69E-03
244	457791.5	3768370	0.0319198	3.19E-02	9.56E-03	3.62E-03
245	457782.6	3768374	0.0312491	3.12E-02	9.36E-03	3.55E-03
246	457773.7	3768377	0.0304965	3.05E-02	9.13E-03	3.46E-03
247	457764.8	3768381	0.029655	2.97E-02	8.88E-03	3.36E-03
248	457756	3768385	0.0287579	2.88E-02	8.61E-03	3.26E-03
249	457747.1	3768388	0.0278169	2.78E-02	8.33E-03	3.16E-03
250	457738.2	3768392	0.0268662	2.69E-02	8.05E-03	3.05E-03
251	457877.5	3768230	0.0394465	3.94E-02	1.18E-02	4.48E-03
252	457877.4	3768220	0.0393749	3.94E-02	1.18E-02	4.47E-03
253	457877.3	3768211	0.0391219	3.91E-02	1.17E-02	4.44E-03
254	457877.2	3768201	0.0386809	3.87E-02	1.16E-02	4.39E-03
255	457877.1	3768191	0.038072	3.81E-02	1.14E-02	4.32E-03
256	457877	3768182	0.0373019	3.73E-02	1.12E-02	4.23E-03
257	457876.9	3768172	0.0363647	3.64E-02	1.09E-02	4.13E-03
258	457876.8	3768162	0.0352587	3.53E-02	1.06E-02	4.00E-03
259	457876.6	3768153	0.0339988	3.40E-02	1.02E-02	3.86E-03
260	457876.5	3768143	0.0326248	3.26E-02	9.77E-03	3.70E-03
261	457876.4	3768134	0.0311579	3.12E-02	9.33E-03	3.53E-03
262	457875.7	3768076	0.0217241	2.17E-02	6.51E-03	2.46E-03
263	457875.6	3768066	0.0202712	2.03E-02	6.07E-03	2.30E-03
264	457875.5	3768056	0.0188894	1.89E-02	5.66E-03	2.14E-03
265	457875.4	3768047	0.0175907	1.76E-02	5.27E-03	2.00E-03
266	457875.3	3768037	0.0163627	1.64E-02	4.90E-03	1.86E-03
267	457875.2	3768028	0.0152272	1.52E-02	4.56E-03	1.73E-03
268	457898.9	3768239	0.0352248	3.52E-02	1.06E-02	4.00E-03
269	457895.3	3768248	0.0358015	3.58E-02	1.07E-02	4.06E-03
270	457891.7	3768256	0.0362248	3.62E-02	1.08E-02	4.11E-03
271	457888.1	3768265	0.0381691	3.82E-02	1.14E-02	4.33E-03
272	457884.5	3768274	0.0383385	3.83E-02	1.15E-02	4.35E-03
273	457880.9	3768283	0.0383078	3.83E-02	1.15E-02	4.35E-03
274	457877.3	3768292	0.038093	3.81E-02	1.14E-02	4.32E-03
275	457873.7	3768301	0.0377146	3.77E-02	1.13E-02	4.28E-03
276	457870.1	3768310	0.037175	3.72E-02	1.11E-02	4.22E-03
277	457866.5	3768319	0.0364639	3.65E-02	1.09E-02	4.14E-03
278	457862.9	3768328	0.0356015	3.56E-02	1.07E-02	4.04E-03
279	457859.3	3768337	0.0346306	3.46E-02	1.04E-02	3.93E-03

280	457855.7	3768346	0.0335664	3.36E-02	1.01E-02	3.81E-03
281	457852	3768355	0.0324204	3.24E-02	9.71E-03	3.68E-03
282	457848.4	3768364	0.031217	3.12E-02	9.35E-03	3.54E-03
283	457835.9	3768376	0.0296894	2.97E-02	8.89E-03	3.37E-03
284	457827.1	3768380	0.0293206	2.93E-02	8.78E-03	3.33E-03
285	457818.2	3768384	0.0288685	2.89E-02	8.65E-03	3.28E-03
286	457809.3	3768387	0.0283432	2.83E-02	8.49E-03	3.22E-03
287	457800.4	3768391	0.0277594	2.78E-02	8.31E-03	3.15E-03
288	457791.5	3768395	0.0271121	2.71E-02	8.12E-03	3.08E-03
289	457902.5	3768230	0.0357396	3.57E-02	1.07E-02	4.05E-03
290	457902.4	3768220	0.034306	3.43E-02	1.03E-02	3.89E-03
291	457902.3	3768210	0.033964	3.40E-02	1.02E-02	3.85E-03
292	457902.2	3768201	0.0334818	3.35E-02	1.00E-02	3.80E-03
293	457902.1	3768191	0.0328767	3.29E-02	9.85E-03	3.73E-03
294	457902	3768181	0.0321531	3.22E-02	9.63E-03	3.65E-03
295	457901.9	3768172	0.0313052	3.13E-02	9.38E-03	3.55E-03
296	457901.8	3768162	0.0303397	3.03E-02	9.09E-03	3.44E-03
297	457901.6	3768153	0.0292657	2.93E-02	8.77E-03	3.32E-03
298	457901.5	3768143	0.0281143	2.81E-02	8.42E-03	3.19E-03
299	457901.4	3768133	0.0268947	2.69E-02	8.06E-03	3.05E-03
300	457900.7	3768075	0.019187	1.92E-02	5.75E-03	2.18E-03
301	457900.6	3768066	0.0179962	1.80E-02	5.39E-03	2.04E-03
302	457900.5	3768056	0.0168586	1.69E-02	5.05E-03	1.91E-03
303	457900.4	3768047	0.0157803	1.58E-02	4.73E-03	1.79E-03
304	457900.3	3768037	0.0147554	1.48E-02	4.42E-03	1.67E-03
305	457900.2	3768027	0.0137991	1.38E-02	4.13E-03	1.57E-03
306	457923.9	3768238	0.0322871	3.23E-02	9.67E-03	3.66E-03
307	457920.3	3768247	0.0330206	3.30E-02	9.89E-03	3.75E-03
308	457916.7	3768256	0.0336214	3.36E-02	1.01E-02	3.81E-03
309	457913.1	3768265	0.0340777	3.41E-02	1.02E-02	3.87E-03
310	457909.5	3768274	0.0343994	3.44E-02	1.03E-02	3.90E-03
311	457905.9	3768283	0.0345781	3.46E-02	1.04E-02	3.92E-03
312	457902.3	3768292	0.0345926	3.46E-02	1.04E-02	3.92E-03
313	457898.7	3768301	0.034445	3.44E-02	1.03E-02	3.91E-03
314	457895.1	3768310	0.0341527	3.42E-02	1.02E-02	3.87E-03
315	457891.5	3768319	0.0337248	3.37E-02	1.01E-02	3.83E-03
316	457887.9	3768328	0.033168	3.32E-02	9.93E-03	3.76E-03
317	457884.3	3768337	0.0324959	3.25E-02	9.73E-03	3.69E-03
318	457880.6	3768345	0.0317221	3.17E-02	9.50E-03	3.60E-03
319	457877	3768354	0.0308656	3.09E-02	9.24E-03	3.50E-03
320	457873.4	3768363	0.0299318	2.99E-02	8.97E-03	3.40E-03
321	457869.8	3768372	0.028938	2.89E-02	8.67E-03	3.28E-03
322	457866.2	3768381	0.0279068	2.79E-02	8.36E-03	3.17E-03
323	457853.7	3768394	0.026577	2.66E-02	7.96E-03	3.02E-03
324	457927.5	3768229	0.0314374	3.14E-02	9.42E-03	3.57E-03
325	457927.4	3768220	0.0301448	3.01E-02	9.03E-03	3.42E-03
326	457927.3	3768210	0.0297652	2.98E-02	8.92E-03	3.38E-03

327	457927.2	3768200	0.0292791	2.93E-02	8.77E-03	3.32E-03
328	457927.1	3768191	0.028692	2.87E-02	8.59E-03	3.26E-03
329	457927	3768181	0.0280105	2.80E-02	8.39E-03	3.18E-03
330	457926.9	3768172	0.0272386	2.72E-02	8.16E-03	3.09E-03
331	457926.8	3768162	0.0263952	2.64E-02	7.91E-03	2.99E-03
332	457926.6	3768152	0.0254902	2.55E-02	7.63E-03	2.89E-03
333	457926.5	3768143	0.0245282	2.45E-02	7.35E-03	2.78E-03
334	457926.4	3768133	0.0235146	2.35E-02	7.04E-03	2.67E-03
335	457926.3	3768123	0.0224571	2.25E-02	6.73E-03	2.55E-03
336	457926.2	3768114	0.0213799	2.14E-02	6.40E-03	2.43E-03
337	457926.1	3768104	0.0202967	2.03E-02	6.08E-03	2.30E-03
338	457926	3768094	0.0192174	1.92E-02	5.76E-03	2.18E-03
339	457925.9	3768085	0.018155	1.82E-02	5.44E-03	2.06E-03
340	457925.7	3768075	0.0171174	1.71E-02	5.13E-03	1.94E-03
341	457925.6	3768066	0.0161157	1.61E-02	4.83E-03	1.83E-03
342	457925.5	3768056	0.0151541	1.52E-02	4.54E-03	1.72E-03
343	457925.4	3768046	0.0142393	1.42E-02	4.26E-03	1.62E-03
344	457925.3	3768037	0.0133822	1.34E-02	4.01E-03	1.52E-03
345	457925.2	3768027	0.0125779	1.26E-02	3.77E-03	1.43E-03
346	457948.9	3768238	0.0286408	2.86E-02	8.58E-03	3.25E-03
347	457945.3	3768247	0.029368	2.94E-02	8.80E-03	3.33E-03
348	457941.7	3768256	0.0300029	3.00E-02	8.99E-03	3.40E-03
349	457938.1	3768265	0.0305142	3.05E-02	9.14E-03	3.46E-03
350	457934.5	3768274	0.0309117	3.09E-02	9.26E-03	3.51E-03
351	457930.9	3768283	0.0311899	3.12E-02	9.34E-03	3.54E-03
352	457927.3	3768292	0.0313452	3.13E-02	9.39E-03	3.56E-03
353	457923.7	3768301	0.0313754	3.14E-02	9.40E-03	3.56E-03
354	457920.1	3768309	0.0312838	3.13E-02	9.37E-03	3.55E-03
355	457916.5	3768318	0.0310726	3.11E-02	9.31E-03	3.53E-03
356	457912.9	3768327	0.0307454	3.07E-02	9.21E-03	3.49E-03
357	457909.3	3768336	0.0303128	3.03E-02	9.08E-03	3.44E-03
358	457905.6	3768345	0.0297817	2.98E-02	8.92E-03	3.38E-03
359	457902	3768354	0.029184	2.92E-02	8.74E-03	3.31E-03
360	457898.4	3768363	0.0285021	2.85E-02	8.54E-03	3.23E-03
361	457894.8	3768372	0.0277402	2.77E-02	8.31E-03	3.15E-03
362	457891.2	3768381	0.0269134	2.69E-02	8.06E-03	3.05E-03
363	457887.6	3768390	0.0260402	2.60E-02	7.80E-03	2.95E-03
364	457764.9	3768456	0.0177047	1.77E-02	5.30E-03	2.01E-03
365	457756	3768460	0.0170633	1.71E-02	5.11E-03	1.94E-03
366	457747.1	3768463	0.0164221	1.64E-02	4.92E-03	1.86E-03
367	457738.2	3768467	0.0157556	1.58E-02	4.72E-03	1.79E-03
368	457952.5	3768229	0.0278354	2.78E-02	8.34E-03	3.16E-03
369	457952.4	3768219	0.0266932	2.67E-02	8.00E-03	3.03E-03
370	457952.3	3768210	0.0263046	2.63E-02	7.88E-03	2.98E-03
371	457952.2	3768200	0.0258342	2.58E-02	7.74E-03	2.93E-03
372	457952.1	3768191	0.0252873	2.53E-02	7.57E-03	2.87E-03
373	457952	3768181	0.0246667	2.47E-02	7.39E-03	2.80E-03

374	457951.9	3768171	0.0239806	2.40E-02	7.18E-03	2.72E-03
375	457951.8	3768162	0.0232372	2.32E-02	6.96E-03	2.64E-03
376	457951.6	3768152	0.0224469	2.24E-02	6.72E-03	2.55E-03
377	457951.5	3768142	0.0216133	2.16E-02	6.47E-03	2.45E-03
378	457951.4	3768133	0.0207506	2.08E-02	6.22E-03	2.35E-03
379	457951.3	3768123	0.0198698	1.99E-02	5.95E-03	2.25E-03
380	457951.2	3768113	0.0189745	1.90E-02	5.68E-03	2.15E-03
381	457951.1	3768104	0.0180711	1.81E-02	5.41E-03	2.05E-03
382	457951	3768094	0.0171653	1.72E-02	5.14E-03	1.95E-03
383	457950.9	3768085	0.0162721	1.63E-02	4.87E-03	1.85E-03
384	457950.7	3768075	0.0154005	1.54E-02	4.61E-03	1.75E-03
385	457950.6	3768065	0.0145534	1.46E-02	4.36E-03	1.65E-03
386	457950.5	3768056	0.0137378	1.37E-02	4.11E-03	1.56E-03
387	457950.4	3768046	0.0129583	1.30E-02	3.88E-03	1.47E-03
388	457950.3	3768036	0.0122262	1.22E-02	3.66E-03	1.39E-03
389	457950.2	3768027	0.0115352	1.15E-02	3.45E-03	1.31E-03
390	457973.9	3768238	0.025565	2.56E-02	7.66E-03	2.90E-03
391	457970.3	3768247	0.0262457	2.62E-02	7.86E-03	2.98E-03
392	457966.7	3768256	0.0268628	2.69E-02	8.05E-03	3.05E-03
393	457963.1	3768265	0.0273917	2.74E-02	8.20E-03	3.11E-03
394	457959.5	3768273	0.027831	2.78E-02	8.34E-03	3.16E-03
395	457955.9	3768282	0.0281782	2.82E-02	8.44E-03	3.20E-03
396	457952.3	3768291	0.0284278	2.84E-02	8.51E-03	3.23E-03
397	457948.7	3768300	0.0285757	2.86E-02	8.56E-03	3.24E-03
398	457945.1	3768309	0.0286231	2.86E-02	8.57E-03	3.25E-03
399	457941.5	3768318	0.0285717	2.86E-02	8.56E-03	3.24E-03
400	457937.9	3768327	0.0284278	2.84E-02	8.51E-03	3.23E-03
401	457934.3	3768336	0.0281784	2.82E-02	8.44E-03	3.20E-03
402	457930.6	3768345	0.027831	2.78E-02	8.34E-03	3.16E-03
403	457927	3768354	0.0274294	2.74E-02	8.22E-03	3.11E-03
404	457923.4	3768363	0.0269512	2.70E-02	8.07E-03	3.06E-03
405	457919.8	3768372	0.0263957	2.64E-02	7.91E-03	2.99E-03
406	457916.2	3768381	0.0257664	2.58E-02	7.72E-03	2.92E-03
407	457912.6	3768390	0.0250743	2.51E-02	7.51E-03	2.84E-03
408	457827.1	3768455	0.0189414	1.89E-02	5.67E-03	2.15E-03
409	457818.2	3768459	0.0184156	1.84E-02	5.52E-03	2.09E-03
410	457809.3	3768462	0.0178704	1.79E-02	5.35E-03	2.03E-03
411	457800.4	3768466	0.017308	1.73E-02	5.18E-03	1.96E-03
412	457791.5	3768470	0.0167339	1.67E-02	5.01E-03	1.90E-03
413	457782.7	3768474	0.01615	1.61E-02	4.84E-03	1.83E-03
414	457773.8	3768477	0.015578	1.56E-02	4.67E-03	1.77E-03
415	457764.9	3768481	0.015005	1.50E-02	4.49E-03	1.70E-03
416	457756	3768485	0.0144235	1.44E-02	4.32E-03	1.64E-03
417	457747.1	3768488	0.013841	1.38E-02	4.15E-03	1.57E-03
418	457738.2	3768492	0.0132833	1.33E-02	3.98E-03	1.51E-03
419	457977.5	3768229	0.024825	2.48E-02	7.44E-03	2.82E-03
420	457977.4	3768219	0.0244038	2.44E-02	7.31E-03	2.77E-03

421	457977.3	3768210	0.0239153	2.39E-02	7.16E-03	2.71E-03
422	457977.2	3768200	0.0233661	2.34E-02	7.00E-03	2.65E-03
423	457977.1	3768190	0.0224721	2.25E-02	6.73E-03	2.55E-03
424	457977	3768181	0.0219123	2.19E-02	6.56E-03	2.49E-03
425	457976.9	3768171	0.0213032	2.13E-02	6.38E-03	2.42E-03
426	457976.7	3768161	0.0206505	2.07E-02	6.19E-03	2.34E-03
427	457976.6	3768152	0.0199594	2.00E-02	5.98E-03	2.26E-03
428	457976.5	3768142	0.0192377	1.92E-02	5.76E-03	2.18E-03
429	457976.4	3768132	0.018495	1.85E-02	5.54E-03	2.10E-03
430	457976.3	3768123	0.017739	1.77E-02	5.31E-03	2.01E-03
431	457976.2	3768113	0.0169754	1.70E-02	5.08E-03	1.93E-03
432	457976.1	3768104	0.0162076	1.62E-02	4.85E-03	1.84E-03
433	457976	3768094	0.0154447	1.54E-02	4.63E-03	1.75E-03
434	457975.9	3768084	0.0146916	1.47E-02	4.40E-03	1.67E-03
435	457975.7	3768075	0.013953	1.40E-02	4.18E-03	1.58E-03
436	457975.6	3768065	0.0132309	1.32E-02	3.96E-03	1.50E-03
437	457975.5	3768055	0.0125326	1.25E-02	3.75E-03	1.42E-03
438	457975.4	3768046	0.0118624	1.19E-02	3.55E-03	1.35E-03
439	457975.3	3768036	0.0112263	1.12E-02	3.36E-03	1.27E-03
440	457975.2	3768026	0.0106219	1.06E-02	3.18E-03	1.21E-03
441	457998.9	3768237	0.0229396	2.29E-02	6.87E-03	2.60E-03
442	457995.3	3768246	0.0235757	2.36E-02	7.06E-03	2.67E-03
443	457991.7	3768255	0.024159	2.42E-02	7.24E-03	2.74E-03
444	457988.1	3768264	0.0246817	2.47E-02	7.39E-03	2.80E-03
445	457984.5	3768273	0.025137	2.51E-02	7.53E-03	2.85E-03
446	457980.9	3768282	0.0255186	2.55E-02	7.64E-03	2.90E-03
447	457977.3	3768291	0.025832	2.58E-02	7.74E-03	2.93E-03
448	457973.7	3768300	0.0260684	2.61E-02	7.81E-03	2.96E-03
449	457970.1	3768309	0.026215	2.62E-02	7.85E-03	2.97E-03
450	457966.5	3768318	0.0262743	2.63E-02	7.87E-03	2.98E-03
451	457962.9	3768327	0.0262626	2.63E-02	7.87E-03	2.98E-03
452	457959.3	3768336	0.0261723	2.62E-02	7.84E-03	2.97E-03
453	457955.6	3768345	0.0259966	2.60E-02	7.79E-03	2.95E-03
454	457952	3768354	0.0257268	2.57E-02	7.71E-03	2.92E-03
455	457948.4	3768362	0.0253845	2.54E-02	7.60E-03	2.88E-03
456	457944.8	3768371	0.0249802	2.50E-02	7.48E-03	2.83E-03
457	457941.2	3768380	0.0245118	2.45E-02	7.34E-03	2.78E-03
458	457937.6	3768389	0.023982	2.40E-02	7.18E-03	2.72E-03
459	457889.3	3768454	0.0192518	1.93E-02	5.77E-03	2.18E-03
460	457880.4	3768458	0.0189292	1.89E-02	5.67E-03	2.15E-03
461	457871.5	3768461	0.0185787	1.86E-02	5.56E-03	2.11E-03
462	457862.6	3768465	0.0181931	1.82E-02	5.45E-03	2.06E-03
463	457853.8	3768469	0.0177737	1.78E-02	5.32E-03	2.02E-03
464	457844.9	3768473	0.0173328	1.73E-02	5.19E-03	1.97E-03
465	457836	3768476	0.016873	1.69E-02	5.05E-03	1.91E-03
466	457827.1	3768480	0.016393	1.64E-02	4.91E-03	1.86E-03
467	457818.2	3768484	0.015897	1.59E-02	4.76E-03	1.80E-03

468	457809.3	3768487	0.0153904	1.54E-02	4.61E-03	1.75E-03
469	457800.4	3768491	0.0148745	1.49E-02	4.46E-03	1.69E-03
470	457791.6	3768495	0.0143539	1.44E-02	4.30E-03	1.63E-03
471	457782.7	3768499	0.0138298	1.38E-02	4.14E-03	1.57E-03
472	457773.8	3768502	0.0133066	1.33E-02	3.99E-03	1.51E-03
473	457764.9	3768506	0.0127849	1.28E-02	3.83E-03	1.45E-03
474	457756	3768510	0.0122686	1.23E-02	3.67E-03	1.39E-03
475	457747.1	3768513	0.0117636	1.18E-02	3.52E-03	1.33E-03
476	457738.2	3768517	0.0112729	1.13E-02	3.38E-03	1.28E-03
477	458002.5	3768229	0.022256	2.23E-02	6.67E-03	2.53E-03
478	458002.4	3768219	0.0218455	2.18E-02	6.54E-03	2.48E-03
479	458002.3	3768209	0.0213861	2.14E-02	6.41E-03	2.43E-03
480	458002.2	3768200	0.02088	2.09E-02	6.25E-03	2.37E-03
481	458002.1	3768190	0.020117	2.01E-02	6.03E-03	2.28E-03
482	458002	3768180	0.019613	1.96E-02	5.87E-03	2.23E-03
483	458001.9	3768171	0.0190707	1.91E-02	5.71E-03	2.16E-03
484	458001.7	3768161	0.0184965	1.85E-02	5.54E-03	2.10E-03
485	458001.6	3768151	0.0178926	1.79E-02	5.36E-03	2.03E-03
486	458001.5	3768142	0.017266	1.73E-02	5.17E-03	1.96E-03
487	458001.4	3768132	0.0166219	1.66E-02	4.98E-03	1.89E-03
488	458001.3	3768122	0.0159668	1.60E-02	4.78E-03	1.81E-03
489	458001.2	3768113	0.0153053	1.53E-02	4.58E-03	1.74E-03
490	458001.1	3768103	0.014645	1.46E-02	4.39E-03	1.66E-03
491	458001	3768094	0.0139948	1.40E-02	4.19E-03	1.59E-03
492	458000.8	3768084	0.0133523	1.34E-02	4.00E-03	1.51E-03
493	458000.7	3768074	0.0127195	1.27E-02	3.81E-03	1.44E-03
494	458000.6	3768065	0.0120964	1.21E-02	3.62E-03	1.37E-03
495	458000.5	3768055	0.0114935	1.15E-02	3.44E-03	1.30E-03
496	458000.4	3768045	0.0109124	1.09E-02	3.27E-03	1.24E-03
497	458000.3	3768036	0.0103551	1.04E-02	3.10E-03	1.17E-03
498	458000.2	3768026	0.0098235	9.82E-03	2.94E-03	1.11E-03
499	458023.9	3768237	0.0206808	2.07E-02	6.19E-03	2.35E-03
500	458020.3	3768246	0.0212716	2.13E-02	6.37E-03	2.41E-03
501	458016.7	3768255	0.0218212	2.18E-02	6.54E-03	2.48E-03
502	458013.1	3768264	0.022335	2.23E-02	6.69E-03	2.53E-03
503	458009.5	3768273	0.0227988	2.28E-02	6.83E-03	2.59E-03
504	458005.9	3768282	0.0232026	2.32E-02	6.95E-03	2.63E-03
505	458002.3	3768291	0.0235448	2.35E-02	7.05E-03	2.67E-03
506	457998.7	3768300	0.0238259	2.38E-02	7.14E-03	2.70E-03
507	457995.1	3768309	0.0240446	2.40E-02	7.20E-03	2.73E-03
508	457991.5	3768318	0.0241981	2.42E-02	7.25E-03	2.75E-03
509	457987.9	3768326	0.0242617	2.43E-02	7.27E-03	2.75E-03
510	457984.2	3768335	0.0242538	2.43E-02	7.26E-03	2.75E-03
511	457980.6	3768344	0.0241804	2.42E-02	7.24E-03	2.74E-03
512	457977	3768353	0.0240358	2.40E-02	7.20E-03	2.73E-03
513	457973.4	3768362	0.0238225	2.38E-02	7.14E-03	2.70E-03
514	457969.8	3768371	0.0235443	2.35E-02	7.05E-03	2.67E-03

515	457966.2	3768380	0.0232098	2.32E-02	6.95E-03	2.63E-03
516	457962.6	3768389	0.0228186	2.28E-02	6.83E-03	2.59E-03
517	457924.9	3768464	0.0181311	1.81E-02	5.43E-03	2.06E-03
518	457916	3768468	0.0178923	1.79E-02	5.36E-03	2.03E-03
519	457907.1	3768472	0.0176221	1.76E-02	5.28E-03	2.00E-03
520	457898.2	3768475	0.0173239	1.73E-02	5.19E-03	1.97E-03
521	457889.3	3768479	0.0170043	1.70E-02	5.09E-03	1.93E-03
522	457880.4	3768483	0.0166574	1.67E-02	4.99E-03	1.89E-03
523	457871.5	3768486	0.0162828	1.63E-02	4.88E-03	1.85E-03
524	457862.7	3768490	0.0158925	1.59E-02	4.76E-03	1.80E-03
525	457853.8	3768494	0.015492	1.55E-02	4.64E-03	1.76E-03
526	457844.9	3768498	0.0150819	1.51E-02	4.52E-03	1.71E-03
527	457836	3768501	0.0146471	1.46E-02	4.39E-03	1.66E-03
528	457827.1	3768505	0.014194	1.42E-02	4.25E-03	1.61E-03
529	457818.2	3768509	0.0137397	1.37E-02	4.12E-03	1.56E-03
530	457809.3	3768512	0.0132887	1.33E-02	3.98E-03	1.51E-03
531	457800.5	3768516	0.012822	1.28E-02	3.84E-03	1.45E-03
532	457791.6	3768520	0.0123551	1.24E-02	3.70E-03	1.40E-03
533	457782.7	3768524	0.011889	1.19E-02	3.56E-03	1.35E-03
534	457773.8	3768527	0.0114233	1.14E-02	3.42E-03	1.30E-03
535	457764.9	3768531	0.0109596	1.10E-02	3.28E-03	1.24E-03
536	457756	3768535	0.0105119	1.05E-02	3.15E-03	1.19E-03
537	457747.1	3768538	0.0100765	1.01E-02	3.02E-03	1.14E-03
538	457738.2	3768542	0.0096441	9.64E-03	2.89E-03	1.09E-03
539	458027.5	3768228	0.0200558	2.01E-02	6.01E-03	2.28E-03
540	458027.4	3768219	0.0196671	1.97E-02	5.89E-03	2.23E-03
541	458027.3	3768209	0.0192395	1.92E-02	5.76E-03	2.18E-03
542	458027.2	3768199	0.018776	1.88E-02	5.62E-03	2.13E-03
543	458027.1	3768190	0.0182779	1.83E-02	5.47E-03	2.07E-03
544	458027	3768180	0.0177484	1.77E-02	5.32E-03	2.01E-03
545	458026.9	3768170	0.0171935	1.72E-02	5.15E-03	1.95E-03
546	458026.7	3768161	0.0166803	1.67E-02	5.00E-03	1.89E-03
547	458026.6	3768151	0.0161502	1.62E-02	4.84E-03	1.83E-03
548	458026.5	3768141	0.0156021	1.56E-02	4.67E-03	1.77E-03
549	458026.4	3768132	0.0150417	1.50E-02	4.51E-03	1.71E-03
550	458026.3	3768122	0.014472	1.45E-02	4.33E-03	1.64E-03
551	458026.2	3768113	0.0138978	1.39E-02	4.16E-03	1.58E-03
552	458026.1	3768103	0.0133261	1.33E-02	3.99E-03	1.51E-03
553	458026	3768093	0.0127612	1.28E-02	3.82E-03	1.45E-03
554	458025.8	3768084	0.0122026	1.22E-02	3.65E-03	1.38E-03
555	458025.7	3768074	0.0116526	1.17E-02	3.49E-03	1.32E-03
556	458025.6	3768064	0.0111125	1.11E-02	3.33E-03	1.26E-03
557	458025.5	3768055	0.0105883	1.06E-02	3.17E-03	1.20E-03
558	458025.4	3768045	0.0100814	1.01E-02	3.02E-03	1.14E-03
559	458025.3	3768035	0.0095926	9.59E-03	2.87E-03	1.09E-03
560	458025.2	3768026	0.0091246	9.12E-03	2.73E-03	1.04E-03
561	458048.9	3768237	0.0187348	1.87E-02	5.61E-03	2.13E-03

562	458045.3	3768246	0.0192792	1.93E-02	5.77E-03	2.19E-03
563	458041.7	3768255	0.0197926	1.98E-02	5.93E-03	2.25E-03
564	458038.1	3768264	0.0202809	2.03E-02	6.07E-03	2.30E-03
565	458034.5	3768273	0.0207347	2.07E-02	6.21E-03	2.35E-03
566	458030.9	3768282	0.0211475	2.11E-02	6.33E-03	2.40E-03
567	458027.3	3768290	0.0215087	2.15E-02	6.44E-03	2.44E-03
568	458023.7	3768299	0.0218114	2.18E-02	6.53E-03	2.47E-03
569	458020.1	3768308	0.0220587	2.21E-02	6.61E-03	2.50E-03
570	458016.5	3768317	0.0222473	2.22E-02	6.66E-03	2.52E-03
571	458012.9	3768326	0.0223772	2.24E-02	6.70E-03	2.54E-03
572	458009.2	3768335	0.0224463	2.24E-02	6.72E-03	2.55E-03
573	458005.6	3768344	0.0224537	2.25E-02	6.73E-03	2.55E-03
574	458002	3768353	0.0224013	2.24E-02	6.71E-03	2.54E-03
575	457998.4	3768362	0.0222894	2.23E-02	6.68E-03	2.53E-03
576	457994.8	3768371	0.0221199	2.21E-02	6.63E-03	2.51E-03
577	457991.2	3768380	0.0219029	2.19E-02	6.56E-03	2.48E-03
578	457987.6	3768389	0.0216432	2.16E-02	6.48E-03	2.46E-03
579	457958.8	3768460	0.0180163	1.80E-02	5.40E-03	2.04E-03
580	457955.1	3768469	0.017448	1.74E-02	5.23E-03	1.98E-03
581	457942.6	3768482	0.0166799	1.67E-02	5.00E-03	1.89E-03
582	457933.8	3768485	0.0164627	1.65E-02	4.93E-03	1.87E-03
583	457924.9	3768489	0.0162176	1.62E-02	4.86E-03	1.84E-03
584	457916	3768493	0.0159475	1.59E-02	4.78E-03	1.81E-03
585	457907.1	3768497	0.0156525	1.57E-02	4.69E-03	1.78E-03
586	457898.2	3768500	0.0153358	1.53E-02	4.59E-03	1.74E-03
587	457889.3	3768504	0.0149979	1.50E-02	4.49E-03	1.70E-03
588	457880.4	3768508	0.0146424	1.46E-02	4.39E-03	1.66E-03
589	457871.6	3768511	0.0142699	1.43E-02	4.27E-03	1.62E-03
590	457862.7	3768515	0.0138915	1.39E-02	4.16E-03	1.58E-03
591	457853.8	3768519	0.0134976	1.35E-02	4.04E-03	1.53E-03
592	457844.9	3768523	0.0130892	1.31E-02	3.92E-03	1.49E-03
593	457836	3768526	0.0126777	1.27E-02	3.80E-03	1.44E-03
594	457827.1	3768530	0.0122833	1.23E-02	3.68E-03	1.39E-03
595	457818.2	3768534	0.0118811	1.19E-02	3.56E-03	1.35E-03
596	457809.4	3768537	0.0114707	1.15E-02	3.44E-03	1.30E-03
597	457800.5	3768541	0.0110387	1.10E-02	3.31E-03	1.25E-03
598	457791.6	3768545	0.0106083	1.06E-02	3.18E-03	1.20E-03
599	457782.7	3768549	0.0101827	1.02E-02	3.05E-03	1.16E-03
600	457773.8	3768552	0.0097804	9.78E-03	2.93E-03	1.11E-03
601	457764.9	3768556	0.0094013	9.40E-03	2.82E-03	1.07E-03
602	457756	3768560	0.0090334	9.03E-03	2.71E-03	1.02E-03
603	457747.1	3768563	0.0086597	8.66E-03	2.59E-03	9.82E-04
604	457738.3	3768567	0.0082877	8.29E-03	2.48E-03	9.40E-04
605	458052.5	3768228	0.0181651	1.82E-02	5.44E-03	2.06E-03
606	458052.4	3768218	0.0178003	1.78E-02	5.33E-03	2.02E-03
607	458052.3	3768209	0.0174004	1.74E-02	5.21E-03	1.97E-03
608	458052.2	3768199	0.0169687	1.70E-02	5.08E-03	1.93E-03

609	458052.1	3768189	0.0165167	1.65E-02	4.95E-03	1.87E-03
610	458052	3768180	0.0160472	1.60E-02	4.81E-03	1.82E-03
611	458051.9	3768170	0.0155606	1.56E-02	4.66E-03	1.77E-03
612	458051.7	3768160	0.0150521	1.51E-02	4.51E-03	1.71E-03
613	458051.6	3768151	0.0145256	1.45E-02	4.35E-03	1.65E-03
614	458051.5	3768141	0.0139902	1.40E-02	4.19E-03	1.59E-03
615	458051.4	3768132	0.0136916	1.37E-02	4.10E-03	1.55E-03
616	458051.3	3768122	0.013193	1.32E-02	3.95E-03	1.50E-03
617	458051.2	3768112	0.0126912	1.27E-02	3.80E-03	1.44E-03
618	458051.1	3768103	0.0121893	1.22E-02	3.65E-03	1.38E-03
619	458051	3768093	0.0116915	1.17E-02	3.50E-03	1.33E-03
620	458050.8	3768083	0.0111986	1.12E-02	3.35E-03	1.27E-03
621	458050.7	3768074	0.0107158	1.07E-02	3.21E-03	1.22E-03
622	458050.6	3768064	0.0102477	1.02E-02	3.07E-03	1.16E-03
623	458050.5	3768054	0.009792	9.79E-03	2.93E-03	1.11E-03
624	458050.4	3768045	0.0093495	9.35E-03	2.80E-03	1.06E-03
625	458050.3	3768035	0.0089179	8.92E-03	2.67E-03	1.01E-03
626	458050.2	3768026	0.0085033	8.50E-03	2.55E-03	9.65E-04
627	458073.9	3768237	0.0170501	1.71E-02	5.11E-03	1.93E-03
628	458070.3	3768245	0.0175539	1.76E-02	5.26E-03	1.99E-03
629	458066.7	3768254	0.0180361	1.80E-02	5.40E-03	2.05E-03
630	458063.1	3768263	0.0184914	1.85E-02	5.54E-03	2.10E-03
631	458059.5	3768272	0.018919	1.89E-02	5.67E-03	2.15E-03
632	458055.9	3768281	0.0193158	1.93E-02	5.79E-03	2.19E-03
633	458052.3	3768290	0.019675	1.97E-02	5.89E-03	2.23E-03
634	458048.7	3768299	0.0199881	2.00E-02	5.99E-03	2.27E-03
635	458045.1	3768308	0.0202565	2.03E-02	6.07E-03	2.30E-03
636	458041.5	3768317	0.0204776	2.05E-02	6.13E-03	2.32E-03
637	458037.9	3768326	0.020649	2.06E-02	6.18E-03	2.34E-03
638	458034.2	3768335	0.0207703	2.08E-02	6.22E-03	2.36E-03
639	458030.6	3768344	0.0208399	2.08E-02	6.24E-03	2.36E-03
640	458027	3768353	0.0208606	2.09E-02	6.25E-03	2.37E-03
641	458023.4	3768362	0.0208279	2.08E-02	6.24E-03	2.36E-03
642	458019.8	3768371	0.0207381	2.07E-02	6.21E-03	2.35E-03
643	458016.2	3768379	0.0206093	2.06E-02	6.17E-03	2.34E-03
644	458012.6	3768388	0.0204468	2.04E-02	6.12E-03	2.32E-03
645	457983.7	3768460	0.0175949	1.76E-02	5.27E-03	2.00E-03
646	457980.1	3768469	0.017111	1.71E-02	5.13E-03	1.94E-03
647	457976.5	3768478	0.0166117	1.66E-02	4.98E-03	1.88E-03
648	457972.9	3768487	0.0160989	1.61E-02	4.82E-03	1.83E-03
649	457960.4	3768499	0.0154025	1.54E-02	4.61E-03	1.75E-03
650	457951.5	3768503	0.0152016	1.52E-02	4.55E-03	1.72E-03
651	457942.7	3768507	0.0149776	1.50E-02	4.49E-03	1.70E-03
652	457933.8	3768510	0.0147344	1.47E-02	4.41E-03	1.67E-03
653	457924.9	3768514	0.0144704	1.45E-02	4.33E-03	1.64E-03
654	457916	3768518	0.0141854	1.42E-02	4.25E-03	1.61E-03
655	457907.1	3768522	0.0138819	1.39E-02	4.16E-03	1.57E-03

656	457898.2	3768525	0.013563	1.36E-02	4.06E-03	1.54E-03
657	457889.3	3768529	0.0132255	1.32E-02	3.96E-03	1.50E-03
658	457880.5	3768533	0.0128783	1.29E-02	3.86E-03	1.46E-03
659	457871.6	3768536	0.0125259	1.25E-02	3.75E-03	1.42E-03
660	457862.7	3768540	0.0121632	1.22E-02	3.64E-03	1.38E-03
661	457853.8	3768544	0.0117918	1.18E-02	3.53E-03	1.34E-03
662	457844.9	3768548	0.0114163	1.14E-02	3.42E-03	1.30E-03
663	457836	3768551	0.0110394	1.10E-02	3.31E-03	1.25E-03
664	457827.1	3768555	0.0106601	1.07E-02	3.19E-03	1.21E-03
665	457818.2	3768559	0.0102788	1.03E-02	3.08E-03	1.17E-03
666	457809.4	3768562	0.0099023	9.90E-03	2.97E-03	1.12E-03
667	457800.5	3768566	0.0095286	9.53E-03	2.85E-03	1.08E-03
668	457791.6	3768570	0.0091603	9.16E-03	2.74E-03	1.04E-03
669	457782.7	3768574	0.0087978	8.80E-03	2.64E-03	9.98E-04
670	457773.8	3768577	0.0084486	8.45E-03	2.53E-03	9.59E-04
671	457764.9	3768581	0.008104	8.10E-03	2.43E-03	9.19E-04
672	457756	3768585	0.0077609	7.76E-03	2.32E-03	8.81E-04
673	457747.2	3768588	0.0074357	7.44E-03	2.23E-03	8.44E-04
674	457738.3	3768592	0.0071384	7.14E-03	2.14E-03	8.10E-04
675	458077.5	3768228	0.0165306	1.65E-02	4.95E-03	1.88E-03
676	458077.4	3768218	0.01619	1.62E-02	4.85E-03	1.84E-03
677	458077.3	3768208	0.015822	1.58E-02	4.74E-03	1.80E-03
678	458077.2	3768199	0.0154289	1.54E-02	4.62E-03	1.75E-03
679	458077.1	3768189	0.0150152	1.50E-02	4.50E-03	1.70E-03
680	458077	3768179	0.0145819	1.46E-02	4.37E-03	1.65E-03
681	458076.9	3768170	0.0141325	1.41E-02	4.23E-03	1.60E-03
682	458076.7	3768160	0.01368	1.37E-02	4.10E-03	1.55E-03
683	458076.6	3768151	0.0132255	1.32E-02	3.96E-03	1.50E-03
684	458076.5	3768141	0.0127682	1.28E-02	3.82E-03	1.45E-03
685	458076.4	3768131	0.0125278	1.25E-02	3.75E-03	1.42E-03
686	458076.3	3768122	0.0120884	1.21E-02	3.62E-03	1.37E-03
687	458076.2	3768112	0.0116468	1.16E-02	3.49E-03	1.32E-03
688	458076.1	3768102	0.0112058	1.12E-02	3.36E-03	1.27E-03
689	458076	3768093	0.0107671	1.08E-02	3.22E-03	1.22E-03
690	458075.8	3768083	0.0103338	1.03E-02	3.10E-03	1.17E-03
691	458075.7	3768073	0.0099086	9.91E-03	2.97E-03	1.12E-03
692	458075.6	3768064	0.0094958	9.50E-03	2.84E-03	1.08E-03
693	458075.5	3768054	0.0090927	9.09E-03	2.72E-03	1.03E-03
694	458075.4	3768045	0.0087002	8.70E-03	2.61E-03	9.87E-04
695	458075.3	3768035	0.0083173	8.32E-03	2.49E-03	9.44E-04
696	458075.2	3768025	0.0079483	7.95E-03	2.38E-03	9.02E-04
697	458098.9	3768236	0.01558	1.56E-02	4.67E-03	1.77E-03
698	458095.3	3768245	0.0160419	1.60E-02	4.80E-03	1.82E-03
699	458091.7	3768254	0.0164904	1.65E-02	4.94E-03	1.87E-03
700	458088.1	3768263	0.016919	1.69E-02	5.07E-03	1.92E-03
701	458084.5	3768272	0.0173225	1.73E-02	5.19E-03	1.97E-03
702	458080.9	3768281	0.0176995	1.77E-02	5.30E-03	2.01E-03

703	458077.3	3768290	0.0180462	1.80E-02	5.41E-03	2.05E-03
704	458073.7	3768299	0.0183591	1.84E-02	5.50E-03	2.08E-03
705	458070.1	3768308	0.0186366	1.86E-02	5.58E-03	2.11E-03
706	458066.5	3768317	0.0188764	1.89E-02	5.65E-03	2.14E-03
707	458062.9	3768326	0.019082	1.91E-02	5.72E-03	2.16E-03
708	458059.2	3768335	0.0192422	1.92E-02	5.76E-03	2.18E-03
709	458055.6	3768343	0.0193554	1.94E-02	5.80E-03	2.20E-03
710	458052	3768352	0.0194301	1.94E-02	5.82E-03	2.20E-03
711	458048.4	3768361	0.0194682	1.95E-02	5.83E-03	2.21E-03
712	458044.8	3768370	0.0194598	1.95E-02	5.83E-03	2.21E-03
713	458041.2	3768379	0.0194003	1.94E-02	5.81E-03	2.20E-03
714	458037.6	3768388	0.0192925	1.93E-02	5.78E-03	2.19E-03
715	458008.7	3768460	0.0170916	1.71E-02	5.12E-03	1.94E-03
716	458005.1	3768468	0.0166875	1.67E-02	5.00E-03	1.89E-03
717	458001.5	3768477	0.0162669	1.63E-02	4.87E-03	1.85E-03
718	457997.9	3768486	0.0158261	1.58E-02	4.74E-03	1.80E-03
719	457994.3	3768495	0.0153685	1.54E-02	4.60E-03	1.74E-03
720	457990.7	3768504	0.0149018	1.49E-02	4.46E-03	1.69E-03
721	457978.2	3768517	0.0142621	1.43E-02	4.27E-03	1.62E-03
722	457969.3	3768521	0.0140742	1.41E-02	4.22E-03	1.60E-03
723	457960.4	3768524	0.0138631	1.39E-02	4.15E-03	1.57E-03
724	457951.6	3768528	0.0136414	1.36E-02	4.09E-03	1.55E-03
725	457942.7	3768532	0.0134039	1.34E-02	4.01E-03	1.52E-03
726	457933.8	3768535	0.0131491	1.31E-02	3.94E-03	1.49E-03
727	457924.9	3768539	0.0128715	1.29E-02	3.86E-03	1.46E-03
728	457916	3768543	0.0125753	1.26E-02	3.77E-03	1.43E-03
729	457907.1	3768547	0.0122648	1.23E-02	3.67E-03	1.39E-03
730	457898.2	3768550	0.0119448	1.19E-02	3.58E-03	1.36E-03
731	457889.4	3768554	0.0116309	1.16E-02	3.48E-03	1.32E-03
732	457880.5	3768558	0.0113162	1.13E-02	3.39E-03	1.28E-03
733	457871.6	3768561	0.0109928	1.10E-02	3.29E-03	1.25E-03
734	457862.7	3768565	0.0106529	1.07E-02	3.19E-03	1.21E-03
735	457853.8	3768569	0.0103128	1.03E-02	3.09E-03	1.17E-03
736	457844.9	3768573	0.009978	9.98E-03	2.99E-03	1.13E-03
737	457836	3768576	0.0096435	9.64E-03	2.89E-03	1.09E-03
738	457827.1	3768580	0.0093023	9.30E-03	2.79E-03	1.06E-03
739	457818.3	3768584	0.0089634	8.96E-03	2.68E-03	1.02E-03
740	457809.4	3768587	0.0086291	8.63E-03	2.58E-03	9.79E-04
741	457800.5	3768591	0.008299	8.30E-03	2.49E-03	9.42E-04
742	457791.6	3768595	0.0079756	7.98E-03	2.39E-03	9.05E-04
743	457782.7	3768599	0.0076584	7.66E-03	2.29E-03	8.69E-04
744	457773.8	3768602	0.0073492	7.35E-03	2.20E-03	8.34E-04
745	457764.9	3768606	0.0070481	7.05E-03	2.11E-03	8.00E-04
746	457756.1	3768610	0.0067559	6.76E-03	2.02E-03	7.66E-04
747	457747.2	3768613	0.0064737	6.47E-03	1.94E-03	7.34E-04
748	457738.3	3768617	0.0061999	6.20E-03	1.86E-03	7.03E-04
749	457729.4	3768621	0.0059365	5.94E-03	1.78E-03	6.74E-04

750	458139	3768236	0.0135828	1.36E-02	4.07E-03	1.54E-03
751	458135.5	3768244	0.0139774	1.40E-02	4.19E-03	1.59E-03
752	458131.9	3768253	0.0143626	1.44E-02	4.30E-03	1.63E-03
753	458128.4	3768262	0.0147352	1.47E-02	4.41E-03	1.67E-03
754	458100.2	3768332	0.0170139	1.70E-02	5.10E-03	1.93E-03
755	458096.7	3768340	0.0171895	1.72E-02	5.15E-03	1.95E-03
756	458093.1	3768349	0.0173299	1.73E-02	5.19E-03	1.97E-03
757	458089.6	3768358	0.0174286	1.74E-02	5.22E-03	1.98E-03
758	458086.1	3768367	0.0174938	1.75E-02	5.24E-03	1.98E-03
759	458082.6	3768375	0.0175246	1.75E-02	5.25E-03	1.99E-03
760	458079	3768384	0.0175204	1.75E-02	5.25E-03	1.99E-03
761	458075.5	3768393	0.0174822	1.75E-02	5.24E-03	1.98E-03
762	458050.8	3768454	0.0163473	1.63E-02	4.90E-03	1.85E-03
763	458047.3	3768463	0.0160756	1.61E-02	4.81E-03	1.82E-03
764	458043.8	3768471	0.0157778	1.58E-02	4.73E-03	1.79E-03
765	458040.2	3768480	0.0154593	1.55E-02	4.63E-03	1.75E-03
766	458036.7	3768489	0.0151241	1.51E-02	4.53E-03	1.72E-03
767	458033.2	3768498	0.014773	1.48E-02	4.42E-03	1.68E-03
768	458029.7	3768506	0.0144078	1.44E-02	4.32E-03	1.63E-03
769	458026.1	3768515	0.0140318	1.40E-02	4.20E-03	1.59E-03
770	458022.6	3768524	0.0136476	1.36E-02	4.09E-03	1.55E-03
771	458019.1	3768533	0.0132553	1.33E-02	3.97E-03	1.50E-03
772	458006.9	3768545	0.012713	1.27E-02	3.81E-03	1.44E-03
773	457998.2	3768549	0.0125503	1.26E-02	3.76E-03	1.42E-03
774	457989.5	3768552	0.0123727	1.24E-02	3.71E-03	1.40E-03
775	457980.8	3768556	0.0121796	1.22E-02	3.65E-03	1.38E-03
776	457972.1	3768559	0.0119716	1.20E-02	3.59E-03	1.36E-03
777	457963.4	3768563	0.0117523	1.18E-02	3.52E-03	1.33E-03
778	457954.7	3768567	0.0115216	1.15E-02	3.45E-03	1.31E-03
779	457946	3768570	0.0112784	1.13E-02	3.38E-03	1.28E-03
780	457937.4	3768574	0.0110256	1.10E-02	3.30E-03	1.25E-03
781	457928.7	3768578	0.0107641	1.08E-02	3.22E-03	1.22E-03
782	457920	3768581	0.010495	1.05E-02	3.14E-03	1.19E-03
783	457911.3	3768585	0.010219	1.02E-02	3.06E-03	1.16E-03
784	457902.6	3768588	0.0099385	9.94E-03	2.98E-03	1.13E-03
785	457893.9	3768592	0.0096538	9.65E-03	2.89E-03	1.10E-03
786	457885.2	3768596	0.0093665	9.37E-03	2.81E-03	1.06E-03
787	457876.5	3768599	0.0090776	9.08E-03	2.72E-03	1.03E-03
788	457867.8	3768603	0.00879	8.79E-03	2.63E-03	9.97E-04
789	457859.2	3768607	0.0085072	8.51E-03	2.55E-03	9.65E-04
790	457850.5	3768610	0.0082217	8.22E-03	2.46E-03	9.33E-04
791	457841.8	3768614	0.0079334	7.93E-03	2.38E-03	9.00E-04
792	457833.1	3768618	0.0076619	7.66E-03	2.29E-03	8.69E-04
793	457824.4	3768621	0.0074022	7.40E-03	2.22E-03	8.40E-04
794	457815.7	3768625	0.0071414	7.14E-03	2.14E-03	8.10E-04
795	457807	3768628	0.0068774	6.88E-03	2.06E-03	7.80E-04
796	457798.3	3768632	0.0066076	6.61E-03	1.98E-03	7.50E-04

797	458142.5	3768227	0.0131797	1.32E-02	3.95E-03	1.50E-03
798	458142.4	3768217	0.0128997	1.29E-02	3.86E-03	1.46E-03
799	458142.3	3768208	0.0126084	1.26E-02	3.78E-03	1.43E-03
800	458142.2	3768198	0.0123064	1.23E-02	3.69E-03	1.40E-03
801	458142.1	3768188	0.0119862	1.20E-02	3.59E-03	1.36E-03
802	458142	3768179	0.0116543	1.17E-02	3.49E-03	1.32E-03
803	458141.9	3768169	0.0113135	1.13E-02	3.39E-03	1.28E-03
804	458141.7	3768159	0.0109662	1.10E-02	3.28E-03	1.24E-03
805	458141.6	3768150	0.0106139	1.06E-02	3.18E-03	1.20E-03
806	458141.5	3768140	0.0102579	1.03E-02	3.07E-03	1.16E-03
807	458141.4	3768130	0.0099121	9.91E-03	2.97E-03	1.12E-03
808	458141.3	3768121	0.0095756	9.58E-03	2.87E-03	1.09E-03
809	458141.2	3768111	0.0092429	9.24E-03	2.77E-03	1.05E-03
810	458141.1	3768102	0.0091749	9.17E-03	2.75E-03	1.04E-03
811	458141	3768092	0.0088519	8.85E-03	2.65E-03	1.00E-03
812	458140.8	3768082	0.0085321	8.53E-03	2.56E-03	9.68E-04
813	458140.7	3768073	0.0082165	8.22E-03	2.46E-03	9.32E-04
814	458140.6	3768063	0.0079066	7.91E-03	2.37E-03	8.97E-04
815	458140.5	3768053	0.0076031	7.60E-03	2.28E-03	8.63E-04
816	458140.4	3768044	0.0073085	7.31E-03	2.19E-03	8.29E-04
817	458140.3	3768034	0.0070238	7.02E-03	2.10E-03	7.97E-04
818	458140.2	3768024	0.0067477	6.75E-03	2.02E-03	7.66E-04
819	458179	3768235	0.0119599	1.20E-02	3.58E-03	1.36E-03
820	458175.4	3768244	0.0123058	1.23E-02	3.69E-03	1.40E-03
821	458171.9	3768253	0.0126449	1.26E-02	3.79E-03	1.43E-03
822	458168.3	3768262	0.0129759	1.30E-02	3.89E-03	1.47E-03
823	458164.8	3768270	0.0132966	1.33E-02	3.98E-03	1.51E-03
824	458161.2	3768279	0.0136055	1.36E-02	4.08E-03	1.54E-03
825	458157.7	3768288	0.0139018	1.39E-02	4.16E-03	1.58E-03
826	458154.1	3768297	0.0141884	1.42E-02	4.25E-03	1.61E-03
827	458150.6	3768306	0.0144595	1.45E-02	4.33E-03	1.64E-03
828	458147	3768314	0.0147122	1.47E-02	4.41E-03	1.67E-03
829	458143.5	3768323	0.0149406	1.49E-02	4.47E-03	1.70E-03
830	458139.9	3768332	0.0151454	1.51E-02	4.54E-03	1.72E-03
831	458136.4	3768341	0.015326	1.53E-02	4.59E-03	1.74E-03
832	458132.8	3768350	0.0154829	1.55E-02	4.64E-03	1.76E-03
833	458129.3	3768358	0.0156133	1.56E-02	4.68E-03	1.77E-03
834	458090.2	3768455	0.0152632	1.53E-02	4.57E-03	1.73E-03
835	458086.6	3768464	0.0150763	1.51E-02	4.52E-03	1.71E-03
836	458083.1	3768473	0.0148645	1.49E-02	4.45E-03	1.69E-03
837	458079.5	3768481	0.0146307	1.46E-02	4.38E-03	1.66E-03
838	458076	3768490	0.0143782	1.44E-02	4.31E-03	1.63E-03
839	458072.4	3768499	0.0141087	1.41E-02	4.23E-03	1.60E-03
840	458068.9	3768508	0.0138236	1.38E-02	4.14E-03	1.57E-03
841	458065.3	3768517	0.0135248	1.35E-02	4.05E-03	1.53E-03
842	458061.8	3768525	0.0132141	1.32E-02	3.96E-03	1.50E-03
843	458058.2	3768534	0.0128937	1.29E-02	3.86E-03	1.46E-03

844	458054.7	3768543	0.0125625	1.26E-02	3.76E-03	1.43E-03
845	458051.1	3768552	0.0122218	1.22E-02	3.66E-03	1.39E-03
846	458047.6	3768561	0.0118768	1.19E-02	3.56E-03	1.35E-03
847	458035.3	3768573	0.0113971	1.14E-02	3.41E-03	1.29E-03
848	458026.5	3768577	0.0112503	1.13E-02	3.37E-03	1.28E-03
849	458017.8	3768580	0.0110888	1.11E-02	3.32E-03	1.26E-03
850	458009	3768584	0.0109121	1.09E-02	3.27E-03	1.24E-03
851	458000.3	3768588	0.010725	1.07E-02	3.21E-03	1.22E-03
852	457991.5	3768591	0.0105288	1.05E-02	3.15E-03	1.19E-03
853	457982.8	3768595	0.0103297	1.03E-02	3.09E-03	1.17E-03
854	457974	3768599	0.0101219	1.01E-02	3.03E-03	1.15E-03
855	457965.3	3768602	0.0099025	9.90E-03	2.97E-03	1.12E-03
856	457956.5	3768606	0.0096749	9.67E-03	2.90E-03	1.10E-03
857	457947.8	3768610	0.0094457	9.45E-03	2.83E-03	1.07E-03
858	457939	3768613	0.0092151	9.22E-03	2.76E-03	1.05E-03
859	457930.3	3768617	0.0089836	8.98E-03	2.69E-03	1.02E-03
860	457921.5	3768621	0.0087328	8.73E-03	2.62E-03	9.91E-04
861	457912.8	3768624	0.0084816	8.48E-03	2.54E-03	9.62E-04
862	457904	3768628	0.0082342	8.23E-03	2.47E-03	9.34E-04
863	457895.3	3768632	0.0079857	7.99E-03	2.39E-03	9.06E-04
864	458182.5	3768226	0.0116094	1.16E-02	3.48E-03	1.32E-03
865	458182.4	3768217	0.0113643	1.14E-02	3.40E-03	1.29E-03
866	458182.3	3768207	0.0111104	1.11E-02	3.33E-03	1.26E-03
867	458182.2	3768197	0.0108487	1.08E-02	3.25E-03	1.23E-03
868	458182.1	3768188	0.0105731	1.06E-02	3.17E-03	1.20E-03
869	458182	3768178	0.0102891	1.03E-02	3.08E-03	1.17E-03
870	458181.8	3768169	0.0099992	1.00E-02	2.99E-03	1.13E-03
871	458181.7	3768159	0.0097046	9.70E-03	2.91E-03	1.10E-03
872	458181.6	3768149	0.0094063	9.41E-03	2.82E-03	1.07E-03
873	458181.5	3768140	0.009106	9.11E-03	2.73E-03	1.03E-03
874	458181.4	3768130	0.0088156	8.82E-03	2.64E-03	1.00E-03
875	458181.3	3768120	0.0085324	8.53E-03	2.56E-03	9.68E-04
876	458181.2	3768111	0.0082533	8.25E-03	2.47E-03	9.36E-04
877	458181.1	3768101	0.0082058	8.21E-03	2.46E-03	9.31E-04
878	458180.9	3768091	0.0079334	7.93E-03	2.38E-03	9.00E-04
879	458180.8	3768082	0.0076634	7.66E-03	2.30E-03	8.69E-04
880	458180.7	3768072	0.0073969	7.40E-03	2.22E-03	8.39E-04
881	458180.6	3768063	0.0071349	7.13E-03	2.14E-03	8.09E-04
882	458180.5	3768053	0.0068779	6.88E-03	2.06E-03	7.80E-04
883	458180.4	3768043	0.0066266	6.63E-03	1.98E-03	7.52E-04
884	458180.3	3768034	0.0063815	6.38E-03	1.91E-03	7.24E-04
885	458180.2	3768024	0.0061433	6.14E-03	1.84E-03	6.97E-04
886	458218.9	3768235	0.0106153	1.06E-02	3.18E-03	1.20E-03
887	458215.4	3768244	0.0109183	1.09E-02	3.27E-03	1.24E-03
888	458211.8	3768252	0.0112171	1.12E-02	3.36E-03	1.27E-03
889	458208.2	3768261	0.0115115	1.15E-02	3.45E-03	1.31E-03
890	458204.7	3768270	0.0118002	1.18E-02	3.53E-03	1.34E-03

891	458201.1	3768279	0.0120819	1.21E-02	3.62E-03	1.37E-03
892	458197.5	3768288	0.0123548	1.24E-02	3.70E-03	1.40E-03
893	458193.9	3768297	0.012616	1.26E-02	3.78E-03	1.43E-03
894	458190.4	3768306	0.0128646	1.29E-02	3.85E-03	1.46E-03
895	458186.8	3768314	0.0131008	1.31E-02	3.92E-03	1.49E-03
896	458183.2	3768323	0.013321	1.33E-02	3.99E-03	1.51E-03
897	458179.6	3768332	0.0135246	1.35E-02	4.05E-03	1.53E-03
898	458176.1	3768341	0.0137101	1.37E-02	4.11E-03	1.56E-03
899	458172.5	3768350	0.0138768	1.39E-02	4.16E-03	1.57E-03
900	458168.9	3768359	0.0140229	1.40E-02	4.20E-03	1.59E-03
901	458165.4	3768367	0.0141489	1.41E-02	4.24E-03	1.61E-03
902	458161.8	3768376	0.0142527	1.43E-02	4.27E-03	1.62E-03
903	458158.2	3768385	0.0143446	1.43E-02	4.30E-03	1.63E-03
904	458154.6	3768394	0.0144134	1.44E-02	4.32E-03	1.64E-03
905	458151.1	3768403	0.0144578	1.45E-02	4.33E-03	1.64E-03
906	458147.5	3768412	0.0144739	1.45E-02	4.34E-03	1.64E-03
907	458143.9	3768421	0.0144636	1.45E-02	4.33E-03	1.64E-03
908	458093.9	3768544	0.0121746	1.22E-02	3.65E-03	1.38E-03
909	458090.3	3768553	0.011897	1.19E-02	3.56E-03	1.35E-03
910	458086.8	3768562	0.0116107	1.16E-02	3.48E-03	1.32E-03
911	458083.2	3768571	0.0113182	1.13E-02	3.39E-03	1.28E-03
912	458079.6	3768580	0.0110208	1.10E-02	3.30E-03	1.25E-03
913	458076	3768589	0.0107188	1.07E-02	3.21E-03	1.22E-03
914	458063.7	3768601	0.010292	1.03E-02	3.08E-03	1.17E-03
915	458054.9	3768605	0.0101589	1.02E-02	3.04E-03	1.15E-03
916	458046.1	3768609	0.0100148	1.00E-02	3.00E-03	1.14E-03
917	458037.3	3768612	0.0098612	9.86E-03	2.95E-03	1.12E-03
918	458028.5	3768616	0.0096976	9.70E-03	2.90E-03	1.10E-03
919	458019.7	3768620	0.009525	9.52E-03	2.85E-03	1.08E-03
920	458010.9	3768623	0.0093444	9.34E-03	2.80E-03	1.06E-03
921	458002.1	3768627	0.009156	9.16E-03	2.74E-03	1.04E-03
922	457993.3	3768631	0.0089605	8.96E-03	2.68E-03	1.02E-03
923	457984.5	3768634	0.0087592	8.76E-03	2.62E-03	9.94E-04
924	458222.5	3768226	0.0103096	1.03E-02	3.09E-03	1.17E-03
925	458222.4	3768216	0.0100897	1.01E-02	3.02E-03	1.14E-03
926	458222.3	3768207	0.0098621	9.86E-03	2.95E-03	1.12E-03
927	458222.2	3768197	0.0096278	9.63E-03	2.88E-03	1.09E-03
928	458222.1	3768187	0.0093921	9.39E-03	2.81E-03	1.07E-03
929	458222	3768178	0.0091534	9.15E-03	2.74E-03	1.04E-03
930	458221.8	3768168	0.0089111	8.91E-03	2.67E-03	1.01E-03
931	458221.7	3768158	0.0086599	8.66E-03	2.59E-03	9.83E-04
932	458221.6	3768149	0.0084051	8.41E-03	2.52E-03	9.54E-04
933	458221.5	3768139	0.0081492	8.15E-03	2.44E-03	9.25E-04
934	458221.4	3768130	0.0078957	7.90E-03	2.36E-03	8.96E-04
935	458221.3	3768120	0.0076442	7.64E-03	2.29E-03	8.67E-04
936	458221.2	3768110	0.0073945	7.39E-03	2.21E-03	8.39E-04
937	458221.1	3768101	0.0071523	7.15E-03	2.14E-03	8.11E-04

938	458220.9	3768091	0.0069163	6.92E-03	2.07E-03	7.85E-04
939	458220.8	3768081	0.0066854	6.69E-03	2.00E-03	7.58E-04
940	458220.7	3768072	0.0067024	6.70E-03	2.01E-03	7.60E-04
941	458220.6	3768062	0.0064784	6.48E-03	1.94E-03	7.35E-04
942	458220.5	3768052	0.0062582	6.26E-03	1.87E-03	7.10E-04
943	458220.4	3768043	0.0060426	6.04E-03	1.81E-03	6.86E-04
944	458220.3	3768033	0.0058321	5.83E-03	1.75E-03	6.62E-04
945	458220.2	3768024	0.0056269	5.63E-03	1.69E-03	6.38E-04
946	458258.9	3768234	0.009489	9.49E-03	2.84E-03	1.08E-03
947	458255.3	3768243	0.0097555	9.76E-03	2.92E-03	1.11E-03
948	458251.7	3768252	0.0100194	1.00E-02	3.00E-03	1.14E-03
949	458248.2	3768261	0.0102803	1.03E-02	3.08E-03	1.17E-03
950	458244.6	3768270	0.0105373	1.05E-02	3.16E-03	1.20E-03
951	458241	3768279	0.01079	1.08E-02	3.23E-03	1.22E-03
952	458237.4	3768288	0.0110369	1.10E-02	3.31E-03	1.25E-03
953	458233.8	3768297	0.0112761	1.13E-02	3.38E-03	1.28E-03
954	458230.2	3768305	0.0115059	1.15E-02	3.45E-03	1.31E-03
955	458226.6	3768314	0.0117254	1.17E-02	3.51E-03	1.33E-03
956	458223	3768323	0.0119338	1.19E-02	3.57E-03	1.35E-03
957	458219.4	3768332	0.0121298	1.21E-02	3.63E-03	1.38E-03
958	458215.8	3768341	0.0123121	1.23E-02	3.69E-03	1.40E-03
959	458212.2	3768350	0.0124829	1.25E-02	3.74E-03	1.42E-03
960	458208.7	3768359	0.0126421	1.26E-02	3.79E-03	1.43E-03
961	458205.1	3768368	0.012785	1.28E-02	3.83E-03	1.45E-03
962	458201.5	3768377	0.0129107	1.29E-02	3.87E-03	1.46E-03
963	458197.9	3768386	0.0130137	1.30E-02	3.90E-03	1.48E-03
964	458194.3	3768394	0.0130985	1.31E-02	3.92E-03	1.49E-03
965	458190.7	3768403	0.0131654	1.32E-02	3.94E-03	1.49E-03
966	458187.1	3768412	0.0132129	1.32E-02	3.96E-03	1.50E-03
967	458092.1	3768629	0.0093387	9.34E-03	2.80E-03	1.06E-03
968	458083.2	3768633	0.0092184	9.22E-03	2.76E-03	1.05E-03
969	458262.5	3768225	0.0092211	9.22E-03	2.76E-03	1.05E-03
970	458262.4	3768216	0.0090258	9.03E-03	2.70E-03	1.02E-03
971	458262.3	3768206	0.0088243	8.82E-03	2.64E-03	1.00E-03
972	458262.2	3768197	0.0086179	8.62E-03	2.58E-03	9.78E-04
973	458262.1	3768187	0.0084137	8.41E-03	2.52E-03	9.55E-04
974	458262	3768177	0.0082082	8.21E-03	2.46E-03	9.31E-04
975	458261.8	3768168	0.0080009	8.00E-03	2.40E-03	9.08E-04
976	458261.7	3768158	0.0077841	7.78E-03	2.33E-03	8.83E-04
977	458261.6	3768148	0.007565	7.56E-03	2.27E-03	8.58E-04
978	458261.5	3768139	0.0073446	7.34E-03	2.20E-03	8.33E-04
979	458261.4	3768129	0.0071242	7.12E-03	2.13E-03	8.08E-04
980	458261.3	3768119	0.0069045	6.90E-03	2.07E-03	7.83E-04
981	458261.2	3768110	0.0066861	6.69E-03	2.00E-03	7.59E-04
982	458261.1	3768100	0.00647	6.47E-03	1.94E-03	7.34E-04
983	458260.9	3768091	0.0062562	6.26E-03	1.87E-03	7.10E-04
984	458260.8	3768081	0.0060455	6.05E-03	1.81E-03	6.86E-04

985	458260.7	3768071	0.0058466	5.85E-03	1.75E-03	6.63E-04
986	458260.6	3768062	0.0056593	5.66E-03	1.70E-03	6.42E-04
987	458260.5	3768052	0.0054777	5.48E-03	1.64E-03	6.21E-04
988	458260.4	3768042	0.0055377	5.54E-03	1.66E-03	6.28E-04
989	458260.3	3768033	0.0053552	5.36E-03	1.60E-03	6.08E-04
990	458260.2	3768023	0.0051768	5.18E-03	1.55E-03	5.87E-04
991	458298.9	3768234	0.0085361	8.54E-03	2.56E-03	9.68E-04
992	458295.3	3768243	0.0087713	8.77E-03	2.63E-03	9.95E-04
993	458291.7	3768252	0.0090054	9.01E-03	2.70E-03	1.02E-03
994	458288.1	3768261	0.0092373	9.24E-03	2.77E-03	1.05E-03
995	458284.5	3768270	0.0094665	9.47E-03	2.84E-03	1.07E-03
996	458280.9	3768279	0.0096927	9.69E-03	2.90E-03	1.10E-03
997	458277.3	3768288	0.0099154	9.92E-03	2.97E-03	1.12E-03
998	458273.7	3768296	0.0101325	1.01E-02	3.03E-03	1.15E-03
999	458270.1	3768305	0.0103429	1.03E-02	3.10E-03	1.17E-03
1000	458266.4	3768314	0.0105459	1.05E-02	3.16E-03	1.20E-03
1001	458262.8	3768323	0.010743	1.07E-02	3.22E-03	1.22E-03
1002	458259.2	3768332	0.0109317	1.09E-02	3.27E-03	1.24E-03
1003	458255.6	3768341	0.0111098	1.11E-02	3.33E-03	1.26E-03
1004	458252	3768350	0.0112763	1.13E-02	3.38E-03	1.28E-03
1005	458248.4	3768359	0.0114305	1.14E-02	3.42E-03	1.30E-03
1006	458244.8	3768368	0.0115725	1.16E-02	3.47E-03	1.31E-03
1007	458241.2	3768377	0.0117025	1.17E-02	3.51E-03	1.33E-03
1008	458237.6	3768386	0.011817	1.18E-02	3.54E-03	1.34E-03
1009	458234	3768395	0.0119163	1.19E-02	3.57E-03	1.35E-03
1010	458230.4	3768404	0.0120006	1.20E-02	3.59E-03	1.36E-03
1011	458226.8	3768413	0.0120693	1.21E-02	3.61E-03	1.37E-03
1012	458302.5	3768225	0.0083008	8.30E-03	2.49E-03	9.42E-04
1013	458302.4	3768215	0.0081278	8.13E-03	2.43E-03	9.22E-04
1014	458302.3	3768206	0.0079503	7.95E-03	2.38E-03	9.02E-04
1015	458302.2	3768196	0.0077685	7.77E-03	2.33E-03	8.81E-04
1016	458302.1	3768186	0.0075872	7.59E-03	2.27E-03	8.61E-04
1017	458302	3768177	0.0074044	7.40E-03	2.22E-03	8.40E-04
1018	458301.8	3768167	0.0072208	7.22E-03	2.16E-03	8.19E-04
1019	458301.7	3768158	0.007034	7.03E-03	2.11E-03	7.98E-04
1020	458301.6	3768148	0.006847	6.85E-03	2.05E-03	7.77E-04
1021	458301.5	3768138	0.0066594	6.66E-03	1.99E-03	7.56E-04
1022	458301.4	3768129	0.0064693	6.47E-03	1.94E-03	7.34E-04
1023	458301.3	3768119	0.0062792	6.28E-03	1.88E-03	7.12E-04
1024	458301.2	3768109	0.0060899	6.09E-03	1.82E-03	6.91E-04
1025	458301.1	3768100	0.0059023	5.90E-03	1.77E-03	6.70E-04
1026	458300.9	3768090	0.0057169	5.72E-03	1.71E-03	6.49E-04
1027	458300.8	3768080	0.0055341	5.53E-03	1.66E-03	6.28E-04
1028	458300.7	3768071	0.0053621	5.36E-03	1.61E-03	6.08E-04
1029	458300.6	3768061	0.0051996	5.20E-03	1.56E-03	5.90E-04
1030	458300.5	3768052	0.0050413	5.04E-03	1.51E-03	5.72E-04
1031	458300.4	3768042	0.0050976	5.10E-03	1.53E-03	5.78E-04

1032	458300.3	3768032	0.004938	4.94E-03	1.48E-03	5.60E-04
1033	458300.2	3768023	0.0047819	4.78E-03	1.43E-03	5.43E-04
1034	458339	3768233	0.007718	7.72E-03	2.31E-03	8.76E-04
1035	458335.4	3768242	0.007921	7.92E-03	2.37E-03	8.99E-04
1036	458331.9	3768251	0.0081236	8.12E-03	2.43E-03	9.22E-04
1037	458328.3	3768260	0.0083268	8.33E-03	2.49E-03	9.45E-04
1038	458324.8	3768269	0.0085298	8.53E-03	2.55E-03	9.68E-04
1039	458321.2	3768277	0.0087301	8.73E-03	2.61E-03	9.90E-04
1040	458317.7	3768286	0.0089275	8.93E-03	2.67E-03	1.01E-03
1041	458314.1	3768295	0.0091213	9.12E-03	2.73E-03	1.03E-03
1042	458310.5	3768304	0.0093106	9.31E-03	2.79E-03	1.06E-03
1043	458307	3768312	0.0094944	9.49E-03	2.84E-03	1.08E-03
1044	458303.4	3768321	0.0096734	9.67E-03	2.90E-03	1.10E-03
1045	458299.9	3768330	0.009847	9.85E-03	2.95E-03	1.12E-03
1046	458296.3	3768339	0.0100141	1.00E-02	3.00E-03	1.14E-03
1047	458292.8	3768348	0.0101741	1.02E-02	3.05E-03	1.15E-03
1048	458289.2	3768356	0.0103245	1.03E-02	3.09E-03	1.17E-03
1049	458285.7	3768365	0.0104648	1.05E-02	3.13E-03	1.19E-03
1050	458282.1	3768374	0.0105953	1.06E-02	3.17E-03	1.20E-03
1051	458278.6	3768383	0.0107154	1.07E-02	3.21E-03	1.22E-03
1052	458275	3768392	0.0108241	1.08E-02	3.24E-03	1.23E-03
1053	458271.5	3768400	0.0109214	1.09E-02	3.27E-03	1.24E-03
1054	458267.9	3768409	0.0110079	1.10E-02	3.30E-03	1.25E-03
1055	458264.4	3768418	0.011085	1.11E-02	3.32E-03	1.26E-03
1056	458342.5	3768225	0.0075158	7.52E-03	2.25E-03	8.53E-04
1057	458342.4	3768215	0.007362	7.36E-03	2.21E-03	8.35E-04
1058	458342.3	3768205	0.0072045	7.20E-03	2.16E-03	8.17E-04
1059	458342.2	3768196	0.0070441	7.04E-03	2.11E-03	7.99E-04
1060	458342.1	3768186	0.006881	6.88E-03	2.06E-03	7.81E-04
1061	458341.9	3768176	0.0067163	6.72E-03	2.01E-03	7.62E-04
1062	458341.8	3768167	0.0065493	6.55E-03	1.96E-03	7.43E-04
1063	458341.7	3768157	0.0063836	6.38E-03	1.91E-03	7.24E-04
1064	458341.6	3768147	0.0062175	6.22E-03	1.86E-03	7.05E-04
1065	458341.5	3768138	0.0060521	6.05E-03	1.81E-03	6.87E-04
1066	458341.4	3768128	0.0058905	5.89E-03	1.76E-03	6.68E-04
1067	458341.3	3768119	0.0057311	5.73E-03	1.72E-03	6.50E-04
1068	458341.2	3768109	0.005573	5.57E-03	1.67E-03	6.32E-04
1069	458341.1	3768099	0.0054111	5.41E-03	1.62E-03	6.14E-04
1070	458340.9	3768090	0.0052492	5.25E-03	1.57E-03	5.96E-04
1071	458340.8	3768080	0.0050895	5.09E-03	1.52E-03	5.77E-04
1072	458340.7	3768070	0.0049342	4.93E-03	1.48E-03	5.60E-04
1073	458340.6	3768061	0.0047833	4.78E-03	1.43E-03	5.43E-04
1074	458340.5	3768051	0.0046356	4.64E-03	1.39E-03	5.26E-04
1075	458340.4	3768041	0.0044936	4.49E-03	1.35E-03	5.10E-04
1076	458340.3	3768032	0.0043581	4.36E-03	1.31E-03	4.94E-04
1077	458340.2	3768022	0.0042261	4.23E-03	1.27E-03	4.79E-04
1078	458378.9	3768233	0.0070203	7.02E-03	2.10E-03	7.96E-04

1079	458375.4	3768242	0.0072007	7.20E-03	2.16E-03	8.17E-04
1080	458371.8	3768251	0.007381	7.38E-03	2.21E-03	8.37E-04
1081	458368.2	3768259	0.0075629	7.56E-03	2.27E-03	8.58E-04
1082	458364.7	3768268	0.0077445	7.74E-03	2.32E-03	8.79E-04
1083	458361.1	3768277	0.0079247	7.92E-03	2.37E-03	8.99E-04
1084	458357.5	3768286	0.0081032	8.10E-03	2.43E-03	9.19E-04
1085	458354	3768295	0.0082785	8.28E-03	2.48E-03	9.39E-04
1086	458350.4	3768304	0.0084507	8.45E-03	2.53E-03	9.59E-04
1087	458346.8	3768312	0.0086193	8.62E-03	2.58E-03	9.78E-04
1088	458343.3	3768321	0.0087833	8.78E-03	2.63E-03	9.97E-04
1089	458339.7	3768330	0.0089427	8.94E-03	2.68E-03	1.01E-03
1090	458336.1	3768339	0.0090963	9.10E-03	2.72E-03	1.03E-03
1091	458332.6	3768348	0.0092442	9.24E-03	2.77E-03	1.05E-03
1092	458329	3768357	0.0093889	9.39E-03	2.81E-03	1.07E-03
1093	458325.4	3768365	0.0095266	9.53E-03	2.85E-03	1.08E-03
1094	458321.9	3768374	0.0096565	9.66E-03	2.89E-03	1.10E-03
1095	458318.3	3768383	0.0097762	9.78E-03	2.93E-03	1.11E-03
1096	458314.7	3768392	0.0098869	9.89E-03	2.96E-03	1.12E-03
1097	458311.2	3768401	0.0099881	9.99E-03	2.99E-03	1.13E-03
1098	458307.6	3768410	0.0100797	1.01E-02	3.02E-03	1.14E-03
1099	458304	3768418	0.0101611	1.02E-02	3.04E-03	1.15E-03
1100	458382.5	3768224	0.0068397	6.84E-03	2.05E-03	7.76E-04
1101	458382.4	3768214	0.0067025	6.70E-03	2.01E-03	7.60E-04
1102	458382.3	3768205	0.0065628	6.56E-03	1.97E-03	7.45E-04
1103	458382.2	3768195	0.0064209	6.42E-03	1.92E-03	7.28E-04
1104	458382.1	3768186	0.0062764	6.28E-03	1.88E-03	7.12E-04
1105	458381.9	3768176	0.0061308	6.13E-03	1.84E-03	6.96E-04
1106	458381.8	3768166	0.0059834	5.98E-03	1.79E-03	6.79E-04
1107	458381.7	3768157	0.005836	5.84E-03	1.75E-03	6.62E-04
1108	458381.6	3768147	0.0056878	5.69E-03	1.70E-03	6.45E-04
1109	458381.5	3768137	0.0055396	5.54E-03	1.66E-03	6.28E-04
1110	458381.4	3768128	0.0053987	5.40E-03	1.62E-03	6.13E-04
1111	458381.3	3768118	0.0052603	5.26E-03	1.58E-03	5.97E-04
1112	458381.2	3768108	0.0051233	5.12E-03	1.53E-03	5.81E-04
1113	458381	3768099	0.0049818	4.98E-03	1.49E-03	5.65E-04
1114	458380.9	3768089	0.0048399	4.84E-03	1.45E-03	5.49E-04
1115	458380.8	3768080	0.0046997	4.70E-03	1.41E-03	5.33E-04
1116	458380.7	3768070	0.004561	4.56E-03	1.37E-03	5.17E-04
1117	458380.6	3768060	0.0044246	4.42E-03	1.33E-03	5.02E-04
1118	458380.5	3768051	0.0042909	4.29E-03	1.29E-03	4.87E-04
1119	458380.4	3768041	0.0041657	4.17E-03	1.25E-03	4.73E-04
1120	458380.3	3768031	0.0040482	4.05E-03	1.21E-03	4.59E-04
1121	458380.1	3768022	0.0039348	3.93E-03	1.18E-03	4.46E-04
1122	458418.9	3768232	0.0064082	6.41E-03	1.92E-03	7.27E-04
1123	458415.3	3768241	0.0065724	6.57E-03	1.97E-03	7.46E-04
1124	458411.8	3768250	0.0067366	6.74E-03	2.02E-03	7.64E-04
1125	458408.2	3768259	0.0069008	6.90E-03	2.07E-03	7.83E-04

1126	458404.6	3768268	0.0070642	7.06E-03	2.12E-03	8.01E-04
1127	458401	3768277	0.0072265	7.23E-03	2.16E-03	8.20E-04
1128	458397.4	3768286	0.0073877	7.39E-03	2.21E-03	8.38E-04
1129	458393.8	3768295	0.0075468	7.55E-03	2.26E-03	8.56E-04
1130	458390.3	3768303	0.0077037	7.70E-03	2.31E-03	8.74E-04
1131	458386.7	3768312	0.0078577	7.86E-03	2.35E-03	8.91E-04
1132	458383.1	3768321	0.0080084	8.01E-03	2.40E-03	9.09E-04
1133	458379.5	3768330	0.0081555	8.16E-03	2.44E-03	9.25E-04
1134	458375.9	3768339	0.0082984	8.30E-03	2.49E-03	9.41E-04
1135	458372.4	3768348	0.0084369	8.44E-03	2.53E-03	9.57E-04
1136	458368.8	3768357	0.0085729	8.57E-03	2.57E-03	9.73E-04
1137	458365.2	3768366	0.0087035	8.70E-03	2.61E-03	9.87E-04
1138	458361.6	3768374	0.0088281	8.83E-03	2.64E-03	1.00E-03
1139	458358	3768383	0.0089448	8.94E-03	2.68E-03	1.01E-03
1140	458354.4	3768392	0.0090541	9.05E-03	2.71E-03	1.03E-03
1141	458350.9	3768401	0.0091558	9.16E-03	2.74E-03	1.04E-03
1142	458347.3	3768410	0.0092498	9.25E-03	2.77E-03	1.05E-03
1143	458422.5	3768224	0.006246	6.25E-03	1.87E-03	7.09E-04
1144	458422.4	3768214	0.0061256	6.13E-03	1.83E-03	6.95E-04
1145	458422.3	3768204	0.0060037	6.00E-03	1.80E-03	6.81E-04
1146	458422.2	3768195	0.0058805	5.88E-03	1.76E-03	6.67E-04
1147	458422.1	3768185	0.0057518	5.75E-03	1.72E-03	6.53E-04
1148	458421.9	3768175	0.0056225	5.62E-03	1.68E-03	6.38E-04
1149	458421.8	3768166	0.0054919	5.49E-03	1.64E-03	6.23E-04
1150	458421.7	3768156	0.0053612	5.36E-03	1.61E-03	6.08E-04
1151	458421.6	3768147	0.00523	5.23E-03	1.57E-03	5.93E-04
1152	458421.5	3768137	0.0050988	5.10E-03	1.53E-03	5.78E-04
1153	458421.4	3768127	0.0049679	4.97E-03	1.49E-03	5.64E-04
1154	458421.3	3768118	0.004838	4.84E-03	1.45E-03	5.49E-04
1155	458421.2	3768108	0.0047086	4.71E-03	1.41E-03	5.34E-04
1156	458421	3768098	0.0045873	4.59E-03	1.37E-03	5.20E-04
1157	458420.9	3768089	0.0044695	4.47E-03	1.34E-03	5.07E-04
1158	458420.8	3768079	0.0043534	4.35E-03	1.30E-03	4.94E-04
1159	458420.7	3768069	0.0042333	4.23E-03	1.27E-03	4.80E-04
1160	458420.6	3768060	0.0041122	4.11E-03	1.23E-03	4.67E-04
1161	458420.5	3768050	0.0039933	3.99E-03	1.20E-03	4.53E-04
1162	458420.4	3768040	0.0038765	3.88E-03	1.16E-03	4.40E-04
1163	458420.3	3768031	0.0037624	3.76E-03	1.13E-03	4.27E-04
1164	458420.1	3768021	0.0036506	3.65E-03	1.09E-03	4.14E-04
1165	458458.9	3768232	0.0058814	5.88E-03	1.76E-03	6.67E-04
1166	458455.3	3768241	0.0060287	6.03E-03	1.81E-03	6.84E-04
1167	458451.7	3768250	0.006176	6.18E-03	1.85E-03	7.01E-04
1168	458448.1	3768259	0.0063238	6.32E-03	1.89E-03	7.17E-04
1169	458444.5	3768268	0.0064711	6.47E-03	1.94E-03	7.34E-04
1170	458440.9	3768277	0.0066176	6.62E-03	1.98E-03	7.51E-04
1171	458437.3	3768285	0.0067636	6.76E-03	2.03E-03	7.67E-04
1172	458433.7	3768294	0.0069079	6.91E-03	2.07E-03	7.84E-04

1173	458430.1	3768303	0.0070507	7.05E-03	2.11E-03	8.00E-04
1174	458426.6	3768312	0.0071916	7.19E-03	2.15E-03	8.16E-04
1175	458423	3768321	0.0073301	7.33E-03	2.20E-03	8.32E-04
1176	458419.4	3768330	0.007466	7.47E-03	2.24E-03	8.47E-04
1177	458415.8	3768339	0.0075987	7.60E-03	2.28E-03	8.62E-04
1178	458412.2	3768348	0.0077272	7.73E-03	2.31E-03	8.77E-04
1179	458408.6	3768357	0.0078538	7.85E-03	2.35E-03	8.91E-04
1180	458405	3768366	0.0079769	7.98E-03	2.39E-03	9.05E-04
1181	458401.4	3768374	0.0080953	8.10E-03	2.42E-03	9.18E-04
1182	458397.8	3768383	0.0082071	8.21E-03	2.46E-03	9.31E-04
1183	458394.2	3768392	0.0083133	8.31E-03	2.49E-03	9.43E-04
1184	458390.6	3768401	0.0084135	8.41E-03	2.52E-03	9.55E-04
1185	458387	3768410	0.0085071	8.51E-03	2.55E-03	9.65E-04
1186	458462.5	3768223	0.0057353	5.74E-03	1.72E-03	6.51E-04
1187	458462.4	3768214	0.0056243	5.62E-03	1.68E-03	6.38E-04
1188	458462.3	3768204	0.0055119	5.51E-03	1.65E-03	6.25E-04
1189	458462.2	3768194	0.0053991	5.40E-03	1.62E-03	6.13E-04
1190	458462.1	3768185	0.005287	5.29E-03	1.58E-03	6.00E-04
1191	458461.9	3768175	0.0051749	5.17E-03	1.55E-03	5.87E-04
1192	458461.8	3768165	0.0050618	5.06E-03	1.52E-03	5.74E-04
1193	458461.7	3768156	0.0049453	4.95E-03	1.48E-03	5.61E-04
1194	458461.6	3768146	0.0048284	4.83E-03	1.45E-03	5.48E-04
1195	458461.5	3768136	0.0047119	4.71E-03	1.41E-03	5.35E-04
1196	458461.4	3768127	0.0045956	4.60E-03	1.38E-03	5.21E-04
1197	458461.3	3768117	0.0044798	4.48E-03	1.34E-03	5.08E-04
1198	458461.2	3768107	0.0043647	4.36E-03	1.31E-03	4.95E-04
1199	458461	3768098	0.0042571	4.26E-03	1.28E-03	4.83E-04
1200	458460.9	3768088	0.0041525	4.15E-03	1.24E-03	4.71E-04
1201	458460.8	3768079	0.0040495	4.05E-03	1.21E-03	4.59E-04
1202	458460.7	3768069	0.0039419	3.94E-03	1.18E-03	4.47E-04
1203	458460.6	3768059	0.0038338	3.83E-03	1.15E-03	4.35E-04
1204	458460.5	3768050	0.0037278	3.73E-03	1.12E-03	4.23E-04
1205	458460.4	3768040	0.0036234	3.62E-03	1.09E-03	4.11E-04
1206	458460.3	3768030	0.0035213	3.52E-03	1.05E-03	4.00E-04
1207	458460.1	3768021	0.0034209	3.42E-03	1.02E-03	3.88E-04
1208	458498.9	3768232	0.005419	5.42E-03	1.62E-03	6.15E-04
1209	458495.3	3768241	0.0055518	5.55E-03	1.66E-03	6.30E-04
1210	458491.7	3768249	0.0056845	5.68E-03	1.70E-03	6.45E-04
1211	458488.1	3768258	0.0058176	5.82E-03	1.74E-03	6.60E-04
1212	458484.5	3768267	0.0059499	5.95E-03	1.78E-03	6.75E-04
1213	458480.9	3768276	0.0060825	6.08E-03	1.82E-03	6.90E-04
1214	458477.3	3768285	0.0062151	6.22E-03	1.86E-03	7.05E-04
1215	458473.6	3768294	0.0063465	6.35E-03	1.90E-03	7.20E-04
1216	458470	3768303	0.0064766	6.48E-03	1.94E-03	7.35E-04
1217	458466.4	3768312	0.0066056	6.61E-03	1.98E-03	7.49E-04
1218	458462.8	3768321	0.0067333	6.73E-03	2.02E-03	7.64E-04
1219	458459.2	3768330	0.0068591	6.86E-03	2.05E-03	7.78E-04

1220	458455.6	3768339	0.0069824	6.98E-03	2.09E-03	7.92E-04
1221	458452	3768348	0.0071032	7.10E-03	2.13E-03	8.06E-04
1222	458448.4	3768357	0.0072208	7.22E-03	2.16E-03	8.19E-04
1223	458444.8	3768366	0.007335	7.33E-03	2.20E-03	8.32E-04
1224	458441.2	3768375	0.0074453	7.45E-03	2.23E-03	8.45E-04
1225	458437.6	3768383	0.0075515	7.55E-03	2.26E-03	8.57E-04
1226	458434	3768392	0.0076534	7.65E-03	2.29E-03	8.68E-04
1227	458430.4	3768401	0.0077504	7.75E-03	2.32E-03	8.79E-04
1228	458426.8	3768410	0.0078423	7.84E-03	2.35E-03	8.90E-04
1229	458502.5	3768223	0.0052874	5.29E-03	1.58E-03	6.00E-04
1230	458502.4	3768213	0.0051866	5.19E-03	1.55E-03	5.88E-04
1231	458502.3	3768203	0.0050844	5.08E-03	1.52E-03	5.77E-04
1232	458502.2	3768194	0.0049823	4.98E-03	1.49E-03	5.65E-04
1233	458502.1	3768184	0.0048823	4.88E-03	1.46E-03	5.54E-04
1234	458501.9	3768174	0.0047825	4.78E-03	1.43E-03	5.43E-04
1235	458501.8	3768165	0.0046819	4.68E-03	1.40E-03	5.31E-04
1236	458501.7	3768155	0.0045781	4.58E-03	1.37E-03	5.19E-04
1237	458501.6	3768146	0.0044739	4.47E-03	1.34E-03	5.08E-04
1238	458501.5	3768136	0.00437	4.37E-03	1.31E-03	4.96E-04
1239	458501.4	3768126	0.0042659	4.27E-03	1.28E-03	4.84E-04
1240	458501.3	3768117	0.0041624	4.16E-03	1.25E-03	4.72E-04
1241	458501.2	3768107	0.0040597	4.06E-03	1.22E-03	4.61E-04
1242	458501	3768097	0.0039577	3.96E-03	1.19E-03	4.49E-04
1243	458500.9	3768088	0.0038568	3.86E-03	1.16E-03	4.38E-04
1244	458500.8	3768078	0.0037568	3.76E-03	1.13E-03	4.26E-04
1245	458500.7	3768068	0.0036644	3.66E-03	1.10E-03	4.16E-04
1246	458500.6	3768059	0.0035746	3.57E-03	1.07E-03	4.06E-04
1247	458500.5	3768049	0.0034875	3.49E-03	1.04E-03	3.96E-04
1248	458500.4	3768040	0.0033958	3.40E-03	1.02E-03	3.85E-04
1249	458500.3	3768030	0.0033041	3.30E-03	9.90E-04	3.75E-04
1250	458500.1	3768020	0.0032136	3.21E-03	9.63E-04	3.65E-04
1251	457700.2	3768020	0.0425575	4.26E-02	1.27E-02	4.83E-03
1252	457690.2	3768020	0.0477239	4.77E-02	1.43E-02	5.41E-03
1253	457680.3	3768020	0.053293	5.33E-02	1.60E-02	6.05E-03
1254	457670.3	3768020	0.0589981	5.90E-02	1.77E-02	6.69E-03
1255	457660.4	3768020	0.0645103	6.45E-02	1.93E-02	7.32E-03
1256	457650.4	3768020	0.0696454	6.96E-02	2.09E-02	7.90E-03
1257	457640.5	3768020	0.074296	7.43E-02	2.23E-02	8.43E-03
1258	457630.5	3768020	0.0784651	7.85E-02	2.35E-02	8.90E-03
1259	457620.6	3768020	0.0822417	8.22E-02	2.46E-02	9.33E-03
1260	457610.6	3768020	0.0855731	8.56E-02	2.56E-02	9.71E-03
1261	457600.7	3768020	0.0884241	8.84E-02	2.65E-02	1.00E-02
1262	457590.7	3768020	0.0908815	9.09E-02	2.72E-02	1.03E-02
1263	457580.8	3768020	0.0930249	9.30E-02	2.79E-02	1.06E-02
1264	457570.8	3768020	0.0948586	9.49E-02	2.84E-02	1.08E-02
1265	457560.9	3768020	0.096442	9.64E-02	2.89E-02	1.09E-02
1266	457550.9	3768020	0.0977732	9.78E-02	2.93E-02	1.11E-02

1267	457541	3768020	0.0989019	9.89E-02	2.96E-02	1.12E-02
1268	457531	3768020	0.0996846	9.97E-02	2.99E-02	1.13E-02
1269	457521.1	3768020	0.1002524	1.00E-01	3.00E-02	1.14E-02
1270	457511.1	3768020	0.1006181	1.01E-01	3.01E-02	1.14E-02
1271	457501.2	3768020	0.100974	1.01E-01	3.02E-02	1.15E-02
1272	457491.3	3768020	0.1012176	1.01E-01	3.03E-02	1.15E-02
1273	457481.3	3768020	0.1013071	1.01E-01	3.03E-02	1.15E-02
1274	457471.4	3768020	0.101295	1.01E-01	3.03E-02	1.15E-02
1275	457461.4	3768020	0.1011421	1.01E-01	3.03E-02	1.15E-02
1276	457451.5	3768020	0.100864	1.01E-01	3.02E-02	1.14E-02
1277	457441.5	3768020	0.1002326	1.00E-01	3.00E-02	1.14E-02
1278	457431.6	3768020	0.0994045	9.94E-02	2.98E-02	1.13E-02
1279	457421.6	3768020	0.0983877	9.84E-02	2.95E-02	1.12E-02
1280	457411.7	3768020	0.0974345	9.74E-02	2.92E-02	1.11E-02
1281	457401.7	3768020	0.0963475	9.63E-02	2.89E-02	1.09E-02
1282	457391.8	3768020	0.0950203	9.50E-02	2.85E-02	1.08E-02
1283	457381.8	3768020	0.0934019	9.34E-02	2.80E-02	1.06E-02
1284	457371.9	3768020	0.0914247	9.14E-02	2.74E-02	1.04E-02
1285	457361.9	3768020	0.0890308	8.90E-02	2.67E-02	1.01E-02
1286	457352	3768020	0.0861286	8.61E-02	2.58E-02	9.77E-03
1287	457342	3768020	0.0825629	8.26E-02	2.47E-02	9.37E-03
1288	457332.1	3768020	0.0782556	7.83E-02	2.34E-02	8.88E-03
1289	457690.2	3768010	0.0417852	4.18E-02	1.25E-02	4.74E-03
1290	457680.3	3768010	0.0462192	4.62E-02	1.38E-02	5.24E-03
1291	457670.3	3768010	0.0508138	5.08E-02	1.52E-02	5.77E-03
1292	457660.4	3768010	0.0553631	5.54E-02	1.66E-02	6.28E-03
1293	457650.4	3768010	0.0597449	5.97E-02	1.79E-02	6.78E-03
1294	457640.5	3768010	0.0638186	6.38E-02	1.91E-02	7.24E-03
1295	457630.5	3768010	0.0675609	6.76E-02	2.02E-02	7.67E-03
1296	457620.6	3768010	0.0709793	7.10E-02	2.13E-02	8.05E-03
1297	457610.6	3768010	0.0740129	7.40E-02	2.22E-02	8.40E-03
1298	457600.7	3768010	0.0766951	7.67E-02	2.30E-02	8.70E-03
1299	457590.7	3768010	0.079051	7.91E-02	2.37E-02	8.97E-03
1300	457580.8	3768010	0.0811306	8.11E-02	2.43E-02	9.20E-03
1301	457570.8	3768010	0.0829371	8.29E-02	2.48E-02	9.41E-03
1302	457560.9	3768010	0.0844934	8.45E-02	2.53E-02	9.59E-03
1303	457550.9	3768010	0.0858122	8.58E-02	2.57E-02	9.74E-03
1304	457541	3768010	0.0869432	8.69E-02	2.60E-02	9.86E-03
1305	457531	3768010	0.0878099	8.78E-02	2.63E-02	9.96E-03
1306	457521.1	3768010	0.0884897	8.85E-02	2.65E-02	1.00E-02
1307	457511.1	3768010	0.0889971	8.90E-02	2.67E-02	1.01E-02
1308	457501.2	3768010	0.0894669	8.95E-02	2.68E-02	1.02E-02
1309	457491.2	3768010	0.0898313	8.98E-02	2.69E-02	1.02E-02
1310	457481.3	3768010	0.090053	9.01E-02	2.70E-02	1.02E-02
1311	457471.3	3768010	0.0901197	9.01E-02	2.70E-02	1.02E-02
1312	457461.4	3768010	0.0900414	9.00E-02	2.70E-02	1.02E-02
1313	457451.4	3768010	0.0898444	8.98E-02	2.69E-02	1.02E-02

1314	457441.5	3768010	0.0894099	8.94E-02	2.68E-02	1.01E-02
1315	457431.5	3768010	0.0888052	8.88E-02	2.66E-02	1.01E-02
1316	457421.6	3768010	0.088043	8.80E-02	2.64E-02	9.99E-03
1317	457411.6	3768010	0.0872863	8.73E-02	2.61E-02	9.90E-03
1318	457401.7	3768010	0.0863897	8.64E-02	2.59E-02	9.80E-03
1319	457391.7	3768010	0.085278	8.53E-02	2.55E-02	9.68E-03
1320	457381.8	3768010	0.0839285	8.39E-02	2.51E-02	9.52E-03
1321	457371.8	3768010	0.0822721	8.23E-02	2.46E-02	9.33E-03
1322	457361.9	3768010	0.0802516	8.03E-02	2.40E-02	9.10E-03
1323	457352	3768010	0.0777591	7.78E-02	2.33E-02	8.82E-03
1324	457342	3768010	0.0747737	7.48E-02	2.24E-02	8.48E-03
1325	457332.1	3768010	0.0712459	7.12E-02	2.13E-02	8.08E-03
1326	457690.2	3768000	0.0371403	3.71E-02	1.11E-02	4.21E-03
1327	457680.3	3768000	0.0407776	4.08E-02	1.22E-02	4.63E-03
1328	457670.3	3768000	0.0445779	4.46E-02	1.34E-02	5.06E-03
1329	457660.4	3768000	0.0483965	4.84E-02	1.45E-02	5.49E-03
1330	457650.4	3768000	0.0521627	5.22E-02	1.56E-02	5.92E-03
1331	457640.5	3768000	0.055744	5.57E-02	1.67E-02	6.32E-03
1332	457630.5	3768000	0.0590918	5.91E-02	1.77E-02	6.70E-03
1333	457620.6	3768000	0.0621397	6.21E-02	1.86E-02	7.05E-03
1334	457610.6	3768000	0.0649204	6.49E-02	1.94E-02	7.37E-03
1335	457600.7	3768000	0.0674278	6.74E-02	2.02E-02	7.65E-03
1336	457590.7	3768000	0.069665	6.97E-02	2.09E-02	7.90E-03
1337	457580.8	3768000	0.0716624	7.17E-02	2.15E-02	8.13E-03
1338	457570.8	3768000	0.0734235	7.34E-02	2.20E-02	8.33E-03
1339	457560.9	3768000	0.074936	7.49E-02	2.24E-02	8.50E-03
1340	457550.9	3768000	0.0762303	7.62E-02	2.28E-02	8.65E-03
1341	457541	3768000	0.0773436	7.73E-02	2.32E-02	8.77E-03
1342	457531	3768000	0.0782813	7.83E-02	2.34E-02	8.88E-03
1343	457521.1	3768000	0.0790697	7.91E-02	2.37E-02	8.97E-03
1344	457511.1	3768000	0.0797071	7.97E-02	2.39E-02	9.04E-03
1345	457501.2	3768000	0.0802542	8.03E-02	2.40E-02	9.11E-03
1346	457491.2	3768000	0.0806881	8.07E-02	2.42E-02	9.15E-03
1347	457481.3	3768000	0.0809884	8.10E-02	2.43E-02	9.19E-03
1348	457471.3	3768000	0.0811073	8.11E-02	2.43E-02	9.20E-03
1349	457461.4	3768000	0.08108	8.11E-02	2.43E-02	9.20E-03
1350	457451.4	3768000	0.0809361	8.09E-02	2.42E-02	9.18E-03
1351	457441.5	3768000	0.0806699	8.07E-02	2.42E-02	9.15E-03
1352	457431.5	3768000	0.0802859	8.03E-02	2.40E-02	9.11E-03
1353	457421.6	3768000	0.0797566	7.98E-02	2.39E-02	9.05E-03
1354	457411.6	3768000	0.079156	7.92E-02	2.37E-02	8.98E-03
1355	457401.7	3768000	0.0784084	7.84E-02	2.35E-02	8.90E-03
1356	457391.7	3768000	0.0774658	7.75E-02	2.32E-02	8.79E-03
1357	457381.8	3768000	0.0763069	7.63E-02	2.29E-02	8.66E-03
1358	457371.8	3768000	0.0748775	7.49E-02	2.24E-02	8.50E-03
1359	457361.9	3768000	0.0731401	7.31E-02	2.19E-02	8.30E-03
1360	457351.9	3768000	0.0709649	7.10E-02	2.13E-02	8.05E-03

1361	457342	3768000	0.0683915	6.84E-02	2.05E-02	7.76E-03
1362	457332	3768000	0.0654267	6.54E-02	1.96E-02	7.42E-03
1363	457690.2	3767990	0.0334084	3.34E-02	1.00E-02	3.79E-03
1364	457680.2	3767990	0.0364658	3.65E-02	1.09E-02	4.14E-03
1365	457670.3	3767990	0.0396693	3.97E-02	1.19E-02	4.50E-03
1366	457660.3	3767990	0.0429195	4.29E-02	1.29E-02	4.87E-03
1367	457650.4	3767990	0.0461819	4.62E-02	1.38E-02	5.24E-03
1368	457640.4	3767990	0.0493277	4.93E-02	1.48E-02	5.60E-03
1369	457630.5	3767990	0.0522859	5.23E-02	1.57E-02	5.93E-03
1370	457620.5	3767990	0.0550389	5.50E-02	1.65E-02	6.24E-03
1371	457610.6	3767990	0.0575898	5.76E-02	1.72E-02	6.53E-03
1372	457600.6	3767990	0.0599241	5.99E-02	1.79E-02	6.80E-03
1373	457590.7	3767990	0.0620361	6.20E-02	1.86E-02	7.04E-03
1374	457580.7	3767990	0.0639455	6.39E-02	1.92E-02	7.25E-03
1375	457570.8	3767990	0.0656481	6.56E-02	1.97E-02	7.45E-03
1376	457560.8	3767990	0.0671123	6.71E-02	2.01E-02	7.61E-03
1377	457550.9	3767990	0.0683729	6.84E-02	2.05E-02	7.76E-03
1378	457540.9	3767990	0.0694618	6.95E-02	2.08E-02	7.88E-03
1379	457531	3767990	0.0704483	7.04E-02	2.11E-02	7.99E-03
1380	457521.1	3767990	0.0713136	7.13E-02	2.14E-02	8.09E-03
1381	457511.1	3767990	0.0720387	7.20E-02	2.16E-02	8.17E-03
1382	457501.2	3767990	0.0726382	7.26E-02	2.18E-02	8.24E-03
1383	457491.2	3767990	0.0731253	7.31E-02	2.19E-02	8.30E-03
1384	457481.3	3767990	0.0734874	7.35E-02	2.20E-02	8.34E-03
1385	457471.3	3767990	0.0736535	7.37E-02	2.21E-02	8.36E-03
1386	457461.4	3767990	0.0736716	7.37E-02	2.21E-02	8.36E-03
1387	457451.4	3767990	0.073573	7.36E-02	2.20E-02	8.35E-03
1388	457441.5	3767990	0.0734386	7.34E-02	2.20E-02	8.33E-03
1389	457431.5	3767990	0.0732139	7.32E-02	2.19E-02	8.31E-03
1390	457421.6	3767990	0.0728554	7.29E-02	2.18E-02	8.27E-03
1391	457411.6	3767990	0.0723785	7.24E-02	2.17E-02	8.21E-03
1392	457401.7	3767990	0.0717522	7.18E-02	2.15E-02	8.14E-03
1393	457391.7	3767990	0.0709433	7.09E-02	2.12E-02	8.05E-03
1394	457381.8	3767990	0.0699383	6.99E-02	2.09E-02	7.93E-03
1395	457371.8	3767990	0.0686969	6.87E-02	2.06E-02	7.79E-03
1396	457361.9	3767990	0.0671925	6.72E-02	2.01E-02	7.62E-03
1397	457351.9	3767990	0.0652954	6.53E-02	1.96E-02	7.41E-03
1398	457342	3767990	0.0630661	6.31E-02	1.89E-02	7.16E-03
1399	457332	3767990	0.0605233	6.05E-02	1.81E-02	6.87E-03
1400	457746.5	3768020	0.027827	2.78E-02	8.33E-03	3.16E-03
1401	457700.1	3767980	0.0279085	2.79E-02	8.36E-03	3.17E-03
1402	457690.2	3767980	0.0303436	3.03E-02	9.09E-03	3.44E-03
1403	457680.2	3767980	0.0329574	3.30E-02	9.87E-03	3.74E-03
1404	457670.3	3767980	0.035698	3.57E-02	1.07E-02	4.05E-03
1405	457660.3	3767980	0.038499	3.85E-02	1.15E-02	4.37E-03
1406	457650.4	3767980	0.0413409	4.13E-02	1.24E-02	4.69E-03
1407	457640.4	3767980	0.0441058	4.41E-02	1.32E-02	5.00E-03

1408	457630.5	3767980	0.0467452	4.67E-02	1.40E-02	5.30E-03
1409	457620.5	3767980	0.0492379	4.92E-02	1.47E-02	5.59E-03
1410	457610.6	3767980	0.0515757	5.16E-02	1.54E-02	5.85E-03
1411	457600.6	3767980	0.0537414	5.37E-02	1.61E-02	6.10E-03
1412	457590.7	3767980	0.0557249	5.57E-02	1.67E-02	6.32E-03
1413	457580.7	3767980	0.0575383	5.75E-02	1.72E-02	6.53E-03
1414	457570.8	3767980	0.0591719	5.92E-02	1.77E-02	6.71E-03
1415	457560.8	3767980	0.0605968	6.06E-02	1.81E-02	6.87E-03
1416	457550.9	3767980	0.0618378	6.18E-02	1.85E-02	7.02E-03
1417	457540.9	3767980	0.0629215	6.29E-02	1.88E-02	7.14E-03
1418	457531	3767980	0.0639256	6.39E-02	1.91E-02	7.25E-03
1419	457521	3767980	0.0648158	6.48E-02	1.94E-02	7.35E-03
1420	457511.1	3767980	0.0655792	6.56E-02	1.96E-02	7.44E-03
1421	457501.1	3767980	0.0661984	6.62E-02	1.98E-02	7.51E-03
1422	457491.2	3767980	0.0667042	6.67E-02	2.00E-02	7.57E-03
1423	457481.2	3767980	0.0670919	6.71E-02	2.01E-02	7.61E-03
1424	457471.3	3767980	0.0673248	6.73E-02	2.02E-02	7.64E-03
1425	457461.3	3767980	0.0674286	6.74E-02	2.02E-02	7.65E-03
1426	457451.4	3767980	0.0674234	6.74E-02	2.02E-02	7.65E-03
1427	457441.4	3767980	0.0673803	6.74E-02	2.02E-02	7.64E-03
1428	457431.5	3767980	0.0672477	6.72E-02	2.01E-02	7.63E-03
1429	457421.5	3767980	0.066989	6.70E-02	2.01E-02	7.60E-03
1430	457411.6	3767980	0.0666053	6.66E-02	1.99E-02	7.56E-03
1431	457401.6	3767980	0.0660774	6.61E-02	1.98E-02	7.50E-03
1432	457391.7	3767980	0.0653831	6.54E-02	1.96E-02	7.42E-03
1433	457381.8	3767980	0.0644944	6.45E-02	1.93E-02	7.32E-03
1434	457371.8	3767980	0.0633876	6.34E-02	1.90E-02	7.19E-03
1435	457361.9	3767980	0.0620575	6.21E-02	1.86E-02	7.04E-03
1436	457351.9	3767980	0.060423	6.04E-02	1.81E-02	6.86E-03
1437	457342	3767980	0.0585232	5.85E-02	1.75E-02	6.64E-03
1438	457332	3767980	0.0563659	5.64E-02	1.69E-02	6.39E-03
1439	457745.9	3767995	0.0221471	2.21E-02	6.63E-03	2.51E-03
1440	457749.5	3768004	0.0232192	2.32E-02	6.95E-03	2.63E-03
1441	457756.6	3768021	0.0259798	2.60E-02	7.78E-03	2.95E-03
1442	457700.1	3767970	0.0256596	2.57E-02	7.69E-03	2.91E-03
1443	457690.2	3767970	0.0277771	2.78E-02	8.32E-03	3.15E-03
1444	457680.2	3767970	0.0300432	3.00E-02	9.00E-03	3.41E-03
1445	457670.3	3767970	0.0324231	3.24E-02	9.71E-03	3.68E-03
1446	457660.3	3767970	0.034864	3.49E-02	1.04E-02	3.96E-03
1447	457650.4	3767970	0.0373559	3.74E-02	1.12E-02	4.24E-03
1448	457640.4	3767970	0.0398041	3.98E-02	1.19E-02	4.52E-03
1449	457630.5	3767970	0.0421671	4.22E-02	1.26E-02	4.78E-03
1450	457620.5	3767970	0.0444246	4.44E-02	1.33E-02	5.04E-03
1451	457610.6	3767970	0.046563	4.66E-02	1.39E-02	5.28E-03
1452	457600.6	3767970	0.048568	4.86E-02	1.45E-02	5.51E-03
1453	457590.7	3767970	0.0504245	5.04E-02	1.51E-02	5.72E-03
1454	457580.7	3767970	0.0521385	5.21E-02	1.56E-02	5.92E-03

1455	457570.8	3767970	0.0537008	5.37E-02	1.61E-02	6.09E-03
1456	457560.8	3767970	0.0550825	5.51E-02	1.65E-02	6.25E-03
1457	457550.9	3767970	0.056303	5.63E-02	1.69E-02	6.39E-03
1458	457540.9	3767970	0.0573801	5.74E-02	1.72E-02	6.51E-03
1459	457531	3767970	0.0583831	5.84E-02	1.75E-02	6.62E-03
1460	457521	3767970	0.0592763	5.93E-02	1.78E-02	6.73E-03
1461	457511.1	3767970	0.0600526	6.01E-02	1.80E-02	6.81E-03
1462	457501.1	3767970	0.0606757	6.07E-02	1.82E-02	6.88E-03
1463	457491.2	3767970	0.0611824	6.12E-02	1.83E-02	6.94E-03
1464	457481.2	3767970	0.0615774	6.16E-02	1.84E-02	6.99E-03
1465	457471.3	3767970	0.0618802	6.19E-02	1.85E-02	7.02E-03
1466	457461.3	3767970	0.0620733	6.21E-02	1.86E-02	7.04E-03
1467	457451.4	3767970	0.062167	6.22E-02	1.86E-02	7.05E-03
1468	457441.4	3767970	0.0621881	6.22E-02	1.86E-02	7.06E-03
1469	457431.5	3767970	0.0621155	6.21E-02	1.86E-02	7.05E-03
1470	457421.5	3767970	0.0619232	6.19E-02	1.85E-02	7.03E-03
1471	457411.6	3767970	0.0616129	6.16E-02	1.85E-02	6.99E-03
1472	457401.6	3767970	0.0611684	6.12E-02	1.83E-02	6.94E-03
1473	457391.7	3767970	0.0605714	6.06E-02	1.81E-02	6.87E-03
1474	457381.7	3767970	0.059772	5.98E-02	1.79E-02	6.78E-03
1475	457371.8	3767970	0.0587743	5.88E-02	1.76E-02	6.67E-03
1476	457361.8	3767970	0.0575833	5.76E-02	1.72E-02	6.53E-03
1477	457351.9	3767970	0.0561856	5.62E-02	1.68E-02	6.37E-03
1478	457341.9	3767970	0.054581	5.46E-02	1.63E-02	6.19E-03
1479	457332	3767970	0.052766	5.28E-02	1.58E-02	5.99E-03
1480	457752.8	3767988	0.0199441	1.99E-02	5.97E-03	2.26E-03
1481	457759.8	3768004	0.0218301	2.18E-02	6.54E-03	2.48E-03
1482	457690.1	3767960	0.0256003	2.56E-02	7.67E-03	2.90E-03
1483	457680.2	3767960	0.0275877	2.76E-02	8.26E-03	3.13E-03
1484	457670.2	3767960	0.0296753	2.97E-02	8.89E-03	3.37E-03
1485	457660.3	3767960	0.0318228	3.18E-02	9.53E-03	3.61E-03
1486	457650.3	3767960	0.0340232	3.40E-02	1.02E-02	3.86E-03
1487	457640.4	3767960	0.0362034	3.62E-02	1.08E-02	4.11E-03
1488	457630.4	3767960	0.0383269	3.83E-02	1.15E-02	4.35E-03
1489	457620.5	3767960	0.0403747	4.04E-02	1.21E-02	4.58E-03
1490	457610.5	3767960	0.0423351	4.23E-02	1.27E-02	4.80E-03
1491	457600.6	3767960	0.0441888	4.42E-02	1.32E-02	5.01E-03
1492	457590.6	3767960	0.0459222	4.59E-02	1.38E-02	5.21E-03
1493	457580.7	3767960	0.047537	4.75E-02	1.42E-02	5.39E-03
1494	457570.7	3767960	0.0490226	4.90E-02	1.47E-02	5.56E-03
1495	457560.8	3767960	0.0503524	5.04E-02	1.51E-02	5.71E-03
1496	457550.9	3767960	0.051542	5.15E-02	1.54E-02	5.85E-03
1497	457540.9	3767960	0.0526041	5.26E-02	1.58E-02	5.97E-03
1498	457531	3767960	0.0535944	5.36E-02	1.61E-02	6.08E-03
1499	457521	3767960	0.0544841	5.45E-02	1.63E-02	6.18E-03
1500	457511.1	3767960	0.055265	5.53E-02	1.66E-02	6.27E-03
1501	457501.1	3767960	0.0558856	5.59E-02	1.67E-02	6.34E-03

1502	457491.2	3767960	0.0563936	5.64E-02	1.69E-02	6.40E-03
1503	457481.2	3767960	0.0567916	5.68E-02	1.70E-02	6.44E-03
1504	457471.3	3767960	0.0571459	5.71E-02	1.71E-02	6.48E-03
1505	457461.3	3767960	0.0574082	5.74E-02	1.72E-02	6.51E-03
1506	457451.4	3767960	0.0575772	5.76E-02	1.72E-02	6.53E-03
1507	457441.4	3767960	0.0576499	5.76E-02	1.73E-02	6.54E-03
1508	457431.5	3767960	0.0576262	5.76E-02	1.73E-02	6.54E-03
1509	457421.5	3767960	0.0574896	5.75E-02	1.72E-02	6.52E-03
1510	457411.6	3767960	0.0572418	5.72E-02	1.71E-02	6.49E-03
1511	457401.6	3767960	0.0568688	5.69E-02	1.70E-02	6.45E-03
1512	457391.7	3767960	0.0563556	5.64E-02	1.69E-02	6.39E-03
1513	457381.7	3767960	0.0556391	5.56E-02	1.67E-02	6.31E-03
1514	457371.8	3767960	0.0547409	5.47E-02	1.64E-02	6.21E-03
1515	457361.8	3767960	0.0536719	5.37E-02	1.61E-02	6.09E-03
1516	457351.9	3767960	0.0524733	5.25E-02	1.57E-02	5.95E-03
1517	457341.9	3767960	0.0511119	5.11E-02	1.53E-02	5.80E-03
1518	457332	3767960	0.0495682	4.96E-02	1.48E-02	5.62E-03
1519	457759.8	3767981	0.0180994	1.81E-02	5.42E-03	2.05E-03
1520	457766.6	3767997	0.0196487	1.96E-02	5.89E-03	2.23E-03
1521	457773.4	3768013	0.0216998	2.17E-02	6.50E-03	2.46E-03
1522	457690.1	3767950	0.0237273	2.37E-02	7.11E-03	2.69E-03
1523	457680.2	3767950	0.025492	2.55E-02	7.64E-03	2.89E-03
1524	457670.2	3767950	0.0273452	2.73E-02	8.19E-03	3.10E-03
1525	457660.3	3767950	0.0292565	2.93E-02	8.76E-03	3.32E-03
1526	457650.3	3767950	0.0312123	3.12E-02	9.35E-03	3.54E-03
1527	457640.4	3767950	0.0331541	3.32E-02	9.93E-03	3.76E-03
1528	457630.4	3767950	0.0350693	3.51E-02	1.05E-02	3.98E-03
1529	457620.5	3767950	0.0369312	3.69E-02	1.11E-02	4.19E-03
1530	457610.5	3767950	0.0387279	3.87E-02	1.16E-02	4.39E-03
1531	457600.6	3767950	0.0404397	4.04E-02	1.21E-02	4.59E-03
1532	457590.6	3767950	0.0420495	4.20E-02	1.26E-02	4.77E-03
1533	457580.7	3767950	0.043561	4.36E-02	1.30E-02	4.94E-03
1534	457570.7	3767950	0.0449618	4.50E-02	1.35E-02	5.10E-03
1535	457560.8	3767950	0.0462389	4.62E-02	1.38E-02	5.25E-03
1536	457550.8	3767950	0.0473964	4.74E-02	1.42E-02	5.38E-03
1537	457540.9	3767950	0.0484452	4.84E-02	1.45E-02	5.50E-03
1538	457530.9	3767950	0.0494174	4.94E-02	1.48E-02	5.61E-03
1539	457521	3767950	0.0502954	5.03E-02	1.51E-02	5.71E-03
1540	457511	3767950	0.0510722	5.11E-02	1.53E-02	5.79E-03
1541	457501.1	3767950	0.0517003	5.17E-02	1.55E-02	5.87E-03
1542	457491.1	3767950	0.0522209	5.22E-02	1.56E-02	5.92E-03
1543	457481.2	3767950	0.0526341	5.26E-02	1.58E-02	5.97E-03
1544	457471.2	3767950	0.053019	5.30E-02	1.59E-02	6.02E-03
1545	457461.3	3767950	0.0533191	5.33E-02	1.60E-02	6.05E-03
1546	457451.3	3767950	0.0535298	5.35E-02	1.60E-02	6.07E-03
1547	457441.4	3767950	0.0536414	5.36E-02	1.61E-02	6.09E-03
1548	457431.4	3767950	0.0536584	5.37E-02	1.61E-02	6.09E-03

1549	457421.5	3767950	0.0535696	5.36E-02	1.60E-02	6.08E-03
1550	457411.6	3767950	0.0533622	5.34E-02	1.60E-02	6.05E-03
1551	457401.6	3767950	0.0530365	5.30E-02	1.59E-02	6.02E-03
1552	457391.7	3767950	0.0525843	5.26E-02	1.57E-02	5.97E-03
1553	457381.7	3767950	0.0519624	5.20E-02	1.56E-02	5.90E-03
1554	457371.8	3767950	0.0511852	5.12E-02	1.53E-02	5.81E-03
1555	457361.8	3767950	0.0502589	5.03E-02	1.51E-02	5.70E-03
1556	457351.9	3767950	0.0492225	4.92E-02	1.47E-02	5.58E-03
1557	457341.9	3767950	0.0480455	4.80E-02	1.44E-02	5.45E-03
1558	457332	3767950	0.0467106	4.67E-02	1.40E-02	5.30E-03
1559	457754.4	3767962	0.0164744	1.65E-02	4.93E-03	1.87E-03
1560	457767.2	3767975	0.0166077	1.66E-02	4.97E-03	1.88E-03
1561	457771.1	3767984	0.0173189	1.73E-02	5.19E-03	1.96E-03
1562	457774.9	3767993	0.018149	1.81E-02	5.44E-03	2.06E-03
1563	457778.7	3768002	0.0191127	1.91E-02	5.72E-03	2.17E-03
1564	457782.5	3768011	0.0202249	2.02E-02	6.06E-03	2.29E-03
1565	457786.4	3768020	0.0214862	2.15E-02	6.44E-03	2.44E-03
1566	457700.1	3767940	0.0206216	2.06E-02	6.18E-03	2.34E-03
1567	457690.1	3767940	0.0221019	2.21E-02	6.62E-03	2.51E-03
1568	457680.2	3767940	0.0236836	2.37E-02	7.09E-03	2.69E-03
1569	457670.2	3767940	0.025344	2.53E-02	7.59E-03	2.88E-03
1570	457660.3	3767940	0.0270564	2.71E-02	8.10E-03	3.07E-03
1571	457650.3	3767940	0.0287954	2.88E-02	8.62E-03	3.27E-03
1572	457640.4	3767940	0.0305389	3.05E-02	9.15E-03	3.46E-03
1573	457630.4	3767940	0.0322725	3.23E-02	9.67E-03	3.66E-03
1574	457620.5	3767940	0.0339696	3.40E-02	1.02E-02	3.85E-03
1575	457610.5	3767940	0.0356186	3.56E-02	1.07E-02	4.04E-03
1576	457600.6	3767940	0.0372027	3.72E-02	1.11E-02	4.22E-03
1577	457590.6	3767940	0.0386951	3.87E-02	1.16E-02	4.39E-03
1578	457580.7	3767940	0.0401036	4.01E-02	1.20E-02	4.55E-03
1579	457570.7	3767940	0.0414166	4.14E-02	1.24E-02	4.70E-03
1580	457560.8	3767940	0.0426406	4.26E-02	1.28E-02	4.84E-03
1581	457550.8	3767940	0.0437634	4.38E-02	1.31E-02	4.97E-03
1582	457540.9	3767940	0.0447937	4.48E-02	1.34E-02	5.08E-03
1583	457530.9	3767940	0.0457419	4.57E-02	1.37E-02	5.19E-03
1584	457521	3767940	0.0466029	4.66E-02	1.40E-02	5.29E-03
1585	457511	3767940	0.0473714	4.74E-02	1.42E-02	5.37E-03
1586	457501.1	3767940	0.048005	4.80E-02	1.44E-02	5.45E-03
1587	457491.1	3767940	0.0485373	4.85E-02	1.45E-02	5.51E-03
1588	457481.2	3767940	0.0489731	4.90E-02	1.47E-02	5.56E-03
1589	457471.2	3767940	0.0493748	4.94E-02	1.48E-02	5.60E-03
1590	457461.3	3767940	0.0496952	4.97E-02	1.49E-02	5.64E-03
1591	457451.3	3767940	0.0499297	4.99E-02	1.50E-02	5.66E-03
1592	457441.4	3767940	0.0500711	5.01E-02	1.50E-02	5.68E-03
1593	457431.4	3767940	0.0501228	5.01E-02	1.50E-02	5.69E-03
1594	457421.5	3767940	0.0500745	5.01E-02	1.50E-02	5.68E-03
1595	457411.5	3767940	0.049898	4.99E-02	1.49E-02	5.66E-03

1596	457401.6	3767940	0.049607	4.96E-02	1.49E-02	5.63E-03
1597	457391.6	3767940	0.0491995	4.92E-02	1.47E-02	5.58E-03
1598	457381.7	3767940	0.0486749	4.87E-02	1.46E-02	5.52E-03
1599	457371.7	3767940	0.0480205	4.80E-02	1.44E-02	5.45E-03
1600	457361.8	3767940	0.0472334	4.72E-02	1.41E-02	5.36E-03
1601	457351.8	3767940	0.0463328	4.63E-02	1.39E-02	5.26E-03
1602	457341.9	3767940	0.045303	4.53E-02	1.36E-02	5.14E-03
1603	457331.9	3767940	0.0441351	4.41E-02	1.32E-02	5.01E-03
1604	457752.8	3767951	0.0155884	1.56E-02	4.67E-03	1.77E-03
1605	457761.6	3767955	0.0151229	1.51E-02	4.53E-03	1.72E-03
1606	457774.2	3767967	0.0152308	1.52E-02	4.56E-03	1.73E-03
1607	457777.9	3767976	0.0158252	1.58E-02	4.74E-03	1.80E-03
1608	457781.6	3767985	0.0165091	1.65E-02	4.94E-03	1.87E-03
1609	457785.3	3767993	0.0172948	1.73E-02	5.18E-03	1.96E-03
1610	457789	3768002	0.0181936	1.82E-02	5.45E-03	2.06E-03
1611	457792.8	3768011	0.0192141	1.92E-02	5.75E-03	2.18E-03
1612	457796.5	3768020	0.0203617	2.04E-02	6.10E-03	2.31E-03
1613	457700	3767930	0.0193429	1.93E-02	5.79E-03	2.19E-03
1614	457690.1	3767930	0.0206771	2.07E-02	6.19E-03	2.35E-03
1615	457680.1	3767930	0.0221023	2.21E-02	6.62E-03	2.51E-03
1616	457670.2	3767930	0.0235967	2.36E-02	7.07E-03	2.68E-03
1617	457660.2	3767930	0.0251304	2.51E-02	7.53E-03	2.85E-03
1618	457650.3	3767930	0.0266974	2.67E-02	8.00E-03	3.03E-03
1619	457640.3	3767930	0.028276	2.83E-02	8.47E-03	3.21E-03
1620	457630.4	3767930	0.0298516	2.99E-02	8.94E-03	3.39E-03
1621	457620.4	3767930	0.0314026	3.14E-02	9.41E-03	3.56E-03
1622	457610.5	3767930	0.0329183	3.29E-02	9.86E-03	3.73E-03
1623	457600.5	3767930	0.0343835	3.44E-02	1.03E-02	3.90E-03
1624	457590.6	3767930	0.0357667	3.58E-02	1.07E-02	4.06E-03
1625	457580.7	3767930	0.0370773	3.71E-02	1.11E-02	4.21E-03
1626	457570.7	3767930	0.0383049	3.83E-02	1.15E-02	4.35E-03
1627	457560.8	3767930	0.0394743	3.95E-02	1.18E-02	4.48E-03
1628	457550.8	3767930	0.0405605	4.06E-02	1.21E-02	4.60E-03
1629	457540.9	3767930	0.0415653	4.16E-02	1.24E-02	4.72E-03
1630	457530.9	3767930	0.0424864	4.25E-02	1.27E-02	4.82E-03
1631	457521	3767930	0.0433258	4.33E-02	1.30E-02	4.92E-03
1632	457511	3767930	0.0440807	4.41E-02	1.32E-02	5.00E-03
1633	457501.1	3767930	0.0447132	4.47E-02	1.34E-02	5.07E-03
1634	457491.1	3767930	0.045252	4.53E-02	1.36E-02	5.13E-03
1635	457481.2	3767930	0.0457011	4.57E-02	1.37E-02	5.18E-03
1636	457471.2	3767930	0.0461138	4.61E-02	1.38E-02	5.23E-03
1637	457461.3	3767930	0.0464493	4.64E-02	1.39E-02	5.27E-03
1638	457451.3	3767930	0.0467035	4.67E-02	1.40E-02	5.30E-03
1639	457441.4	3767930	0.0468693	4.69E-02	1.40E-02	5.32E-03
1640	457431.4	3767930	0.0469497	4.69E-02	1.41E-02	5.33E-03
1641	457421.5	3767930	0.0469363	4.69E-02	1.41E-02	5.33E-03
1642	457411.5	3767930	0.0467891	4.68E-02	1.40E-02	5.31E-03

1643	457401.6	3767930	0.0465311	4.65E-02	1.39E-02	5.28E-03
1644	457391.6	3767930	0.0461619	4.62E-02	1.38E-02	5.24E-03
1645	457381.7	3767930	0.0457229	4.57E-02	1.37E-02	5.19E-03
1646	457371.7	3767930	0.0451748	4.52E-02	1.35E-02	5.13E-03
1647	457361.8	3767930	0.0445088	4.45E-02	1.33E-02	5.05E-03
1648	457351.8	3767930	0.0437234	4.37E-02	1.31E-02	4.96E-03
1649	457341.9	3767930	0.0428197	4.28E-02	1.28E-02	4.86E-03
1650	457331.9	3767930	0.0417944	4.18E-02	1.25E-02	4.74E-03
1651	457752.8	3767926	0.0136138	1.36E-02	4.08E-03	1.54E-03
1652	457761.6	3767930	0.0131978	1.32E-02	3.95E-03	1.50E-03
1653	457770.4	3767933	0.0128201	1.28E-02	3.84E-03	1.45E-03
1654	457779.2	3767937	0.0124815	1.25E-02	3.74E-03	1.42E-03
1655	457791.7	3767949	0.0125425	1.25E-02	3.76E-03	1.42E-03
1656	457795.4	3767958	0.0129621	1.30E-02	3.88E-03	1.47E-03
1657	457799.2	3767967	0.013445	1.34E-02	4.03E-03	1.53E-03
1658	457802.9	3767976	0.0139959	1.40E-02	4.19E-03	1.59E-03
1659	457806.6	3767984	0.0146241	1.46E-02	4.38E-03	1.66E-03
1660	457810.3	3767993	0.0153233	1.53E-02	4.59E-03	1.74E-03
1661	457814	3768002	0.0161056	1.61E-02	4.82E-03	1.83E-03
1662	457817.7	3768011	0.0169797	1.70E-02	5.09E-03	1.93E-03
1663	457821.5	3768019	0.0179508	1.80E-02	5.38E-03	2.04E-03
1664	457690.1	3767905	0.017796	1.78E-02	5.33E-03	2.02E-03
1665	457680.1	3767905	0.0189087	1.89E-02	5.66E-03	2.15E-03
1666	457670.2	3767905	0.0200731	2.01E-02	6.01E-03	2.28E-03
1667	457660.2	3767905	0.021277	2.13E-02	6.37E-03	2.41E-03
1668	457650.3	3767905	0.0225122	2.25E-02	6.74E-03	2.55E-03
1669	457640.3	3767905	0.0237641	2.38E-02	7.12E-03	2.70E-03
1670	457630.4	3767905	0.0250239	2.50E-02	7.50E-03	2.84E-03
1671	457620.4	3767905	0.0262682	2.63E-02	7.87E-03	2.98E-03
1672	457610.5	3767905	0.0274944	2.75E-02	8.23E-03	3.12E-03
1673	457600.5	3767905	0.0286901	2.87E-02	8.59E-03	3.26E-03
1674	457590.6	3767905	0.029856	2.99E-02	8.94E-03	3.39E-03
1675	457580.6	3767905	0.0309797	3.10E-02	9.28E-03	3.51E-03
1676	457570.7	3767905	0.0320515	3.21E-02	9.60E-03	3.64E-03
1677	457560.7	3767905	0.0330762	3.31E-02	9.91E-03	3.75E-03
1678	457550.8	3767905	0.0340405	3.40E-02	1.02E-02	3.86E-03
1679	457540.8	3767905	0.034945	3.49E-02	1.05E-02	3.96E-03
1680	457530.9	3767905	0.0357651	3.58E-02	1.07E-02	4.06E-03
1681	457520.9	3767905	0.0365163	3.65E-02	1.09E-02	4.14E-03
1682	457511	3767905	0.037199	3.72E-02	1.11E-02	4.22E-03
1683	457501	3767905	0.0378202	3.78E-02	1.13E-02	4.29E-03
1684	457491.1	3767905	0.0383788	3.84E-02	1.15E-02	4.35E-03
1685	457481.1	3767905	0.0388634	3.89E-02	1.16E-02	4.41E-03
1686	457471.2	3767905	0.0392906	3.93E-02	1.18E-02	4.46E-03
1687	457461.2	3767905	0.0396457	3.96E-02	1.19E-02	4.50E-03
1688	457451.3	3767905	0.0399305	3.99E-02	1.20E-02	4.53E-03
1689	457441.3	3767905	0.0401143	4.01E-02	1.20E-02	4.55E-03

1690	457431.4	3767905	0.040219	4.02E-02	1.20E-02	4.56E-03
1691	457421.4	3767905	0.0402407	4.02E-02	1.21E-02	4.57E-03
1692	457411.5	3767905	0.0402003	4.02E-02	1.20E-02	4.56E-03
1693	457401.5	3767905	0.0400807	4.01E-02	1.20E-02	4.55E-03
1694	457391.6	3767905	0.0398707	3.99E-02	1.19E-02	4.52E-03
1695	457381.6	3767905	0.0395855	3.96E-02	1.19E-02	4.49E-03
1696	457371.7	3767905	0.0392089	3.92E-02	1.17E-02	4.45E-03
1697	457361.7	3767905	0.0387407	3.87E-02	1.16E-02	4.40E-03
1698	457351.8	3767905	0.0381511	3.82E-02	1.14E-02	4.33E-03
1699	457341.8	3767905	0.0374623	3.75E-02	1.12E-02	4.25E-03
1700	457331.9	3767905	0.0366835	3.67E-02	1.10E-02	4.16E-03
1701	457752.8	3767901	0.0120741	1.21E-02	3.62E-03	1.37E-03
1702	457761.6	3767905	0.0117079	1.17E-02	3.51E-03	1.33E-03
1703	457770.4	3767908	0.011369	1.14E-02	3.41E-03	1.29E-03
1704	457779.2	3767912	0.0110586	1.11E-02	3.31E-03	1.25E-03
1705	457788	3767916	0.0107725	1.08E-02	3.23E-03	1.22E-03
1706	457796.8	3767919	0.0105127	1.05E-02	3.15E-03	1.19E-03
1707	457809.3	3767932	0.0105519	1.06E-02	3.16E-03	1.20E-03
1708	457813	3767940	0.0108648	1.09E-02	3.25E-03	1.23E-03
1709	457816.7	3767949	0.0112189	1.12E-02	3.36E-03	1.27E-03
1710	457820.4	3767958	0.0116189	1.16E-02	3.48E-03	1.32E-03
1711	457824.2	3767967	0.0120668	1.21E-02	3.61E-03	1.37E-03
1712	457827.9	3767975	0.0125686	1.26E-02	3.76E-03	1.43E-03
1713	457831.6	3767984	0.0131279	1.31E-02	3.93E-03	1.49E-03
1714	457835.3	3767993	0.0137549	1.38E-02	4.12E-03	1.56E-03
1715	457839	3768002	0.0144505	1.45E-02	4.33E-03	1.64E-03
1716	457842.7	3768010	0.015216	1.52E-02	4.56E-03	1.73E-03
1717	457846.5	3768019	0.0160458	1.60E-02	4.81E-03	1.82E-03
1718	457690	3767880	0.0155789	1.56E-02	4.67E-03	1.77E-03
1719	457680.1	3767880	0.0164787	1.65E-02	4.94E-03	1.87E-03
1720	457670.1	3767880	0.0174181	1.74E-02	5.22E-03	1.98E-03
1721	457660.2	3767880	0.0183894	1.84E-02	5.51E-03	2.09E-03
1722	457650.2	3767880	0.0193836	1.94E-02	5.81E-03	2.20E-03
1723	457640.3	3767880	0.0203934	2.04E-02	6.11E-03	2.31E-03
1724	457630.3	3767880	0.0214135	2.14E-02	6.41E-03	2.43E-03
1725	457620.4	3767880	0.0224343	2.24E-02	6.72E-03	2.55E-03
1726	457610.4	3767880	0.0234484	2.34E-02	7.02E-03	2.66E-03
1727	457600.5	3767880	0.0244489	2.44E-02	7.32E-03	2.77E-03
1728	457590.5	3767880	0.0254335	2.54E-02	7.62E-03	2.89E-03
1729	457580.6	3767880	0.0263929	2.64E-02	7.91E-03	2.99E-03
1730	457570.6	3767880	0.0273179	2.73E-02	8.18E-03	3.10E-03
1731	457560.7	3767880	0.0281978	2.82E-02	8.45E-03	3.20E-03
1732	457550.7	3767880	0.0290308	2.90E-02	8.70E-03	3.29E-03
1733	457540.8	3767880	0.0298194	2.98E-02	8.93E-03	3.38E-03
1734	457530.8	3767880	0.0305584	3.06E-02	9.15E-03	3.47E-03
1735	457520.9	3767880	0.0312473	3.12E-02	9.36E-03	3.55E-03
1736	457510.9	3767880	0.0318815	3.19E-02	9.55E-03	3.62E-03

1737	457501	3767880	0.0324703	3.25E-02	9.73E-03	3.68E-03
1738	457491	3767880	0.0330061	3.30E-02	9.89E-03	3.74E-03
1739	457481.1	3767880	0.0334826	3.35E-02	1.00E-02	3.80E-03
1740	457471.1	3767880	0.0338881	3.39E-02	1.02E-02	3.84E-03
1741	457461.2	3767880	0.0342281	3.42E-02	1.03E-02	3.88E-03
1742	457451.2	3767880	0.0345063	3.45E-02	1.03E-02	3.91E-03
1743	457441.3	3767880	0.0347231	3.47E-02	1.04E-02	3.94E-03
1744	457431.3	3767880	0.0348767	3.49E-02	1.04E-02	3.96E-03
1745	457421.4	3767880	0.0349617	3.50E-02	1.05E-02	3.97E-03
1746	457411.4	3767880	0.0349941	3.50E-02	1.05E-02	3.97E-03
1747	457401.5	3767880	0.0349603	3.50E-02	1.05E-02	3.97E-03
1748	457391.5	3767880	0.0348529	3.49E-02	1.04E-02	3.95E-03
1749	457381.6	3767880	0.0346583	3.47E-02	1.04E-02	3.93E-03
1750	457371.6	3767880	0.0343831	3.44E-02	1.03E-02	3.90E-03
1751	457361.7	3767880	0.0340344	3.40E-02	1.02E-02	3.86E-03
1752	457351.7	3767880	0.0336119	3.36E-02	1.01E-02	3.81E-03
1753	457341.8	3767880	0.0331188	3.31E-02	9.92E-03	3.76E-03
1754	457331.8	3767880	0.0325519	3.26E-02	9.75E-03	3.69E-03
1755	457761.5	3767880	0.0105278	1.05E-02	3.15E-03	1.19E-03
1756	457770.3	3767883	0.0102234	1.02E-02	3.06E-03	1.16E-03
1757	457779.1	3767887	0.0099402	9.94E-03	2.98E-03	1.13E-03
1758	457787.9	3767891	0.0096778	9.68E-03	2.90E-03	1.10E-03
1759	457796.7	3767894	0.0094367	9.44E-03	2.83E-03	1.07E-03
1760	457805.5	3767898	0.0092166	9.22E-03	2.76E-03	1.05E-03
1761	457814.3	3767901	0.0090132	9.01E-03	2.70E-03	1.02E-03
1762	457826.8	3767914	0.0090378	9.04E-03	2.71E-03	1.03E-03
1763	457830.6	3767923	0.0092735	9.27E-03	2.78E-03	1.05E-03
1764	457834.3	3767931	0.0095403	9.54E-03	2.86E-03	1.08E-03
1765	457838	3767940	0.0098405	9.84E-03	2.95E-03	1.12E-03
1766	457841.7	3767949	0.0101772	1.02E-02	3.05E-03	1.15E-03
1767	457845.4	3767958	0.0105534	1.06E-02	3.16E-03	1.20E-03
1768	457849.2	3767966	0.0109667	1.10E-02	3.28E-03	1.24E-03
1769	457852.9	3767975	0.0114258	1.14E-02	3.42E-03	1.30E-03
1770	457856.6	3767984	0.0119314	1.19E-02	3.57E-03	1.35E-03
1771	457860.3	3767993	0.0124928	1.25E-02	3.74E-03	1.42E-03
1772	457864	3768001	0.0131077	1.31E-02	3.93E-03	1.49E-03
1773	457867.7	3768010	0.0137702	1.38E-02	4.12E-03	1.56E-03
1774	457871.5	3768019	0.0144783	1.45E-02	4.34E-03	1.64E-03
1775	457690	3767855	0.0138288	1.38E-02	4.14E-03	1.57E-03
1776	457680	3767855	0.0145703	1.46E-02	4.36E-03	1.65E-03
1777	457670.1	3767855	0.0153424	1.53E-02	4.60E-03	1.74E-03
1778	457660.1	3767855	0.0161395	1.61E-02	4.83E-03	1.83E-03
1779	457650.2	3767855	0.0169571	1.70E-02	5.08E-03	1.92E-03
1780	457640.2	3767855	0.0177891	1.78E-02	5.33E-03	2.02E-03
1781	457630.3	3767855	0.0186316	1.86E-02	5.58E-03	2.11E-03
1782	457620.3	3767855	0.0194828	1.95E-02	5.84E-03	2.21E-03
1783	457610.4	3767855	0.0203356	2.03E-02	6.09E-03	2.31E-03

1784	457600.4	3767855	0.0211821	2.12E-02	6.34E-03	2.40E-03
1785	457590.5	3767855	0.022011	2.20E-02	6.59E-03	2.50E-03
1786	457580.5	3767855	0.0228236	2.28E-02	6.84E-03	2.59E-03
1787	457570.6	3767855	0.0236121	2.36E-02	7.07E-03	2.68E-03
1788	457560.6	3767855	0.0243714	2.44E-02	7.30E-03	2.77E-03
1789	457550.7	3767855	0.0250979	2.51E-02	7.52E-03	2.85E-03
1790	457540.7	3767855	0.0257904	2.58E-02	7.72E-03	2.93E-03
1791	457530.8	3767855	0.0264556	2.65E-02	7.92E-03	3.00E-03
1792	457520.8	3767855	0.0270833	2.71E-02	8.11E-03	3.07E-03
1793	457510.9	3767855	0.02767	2.77E-02	8.29E-03	3.14E-03
1794	457500.9	3767855	0.0282039	2.82E-02	8.45E-03	3.20E-03
1795	457491	3767855	0.0286919	2.87E-02	8.59E-03	3.26E-03
1796	457481	3767855	0.0291311	2.91E-02	8.73E-03	3.31E-03
1797	457471.1	3767855	0.0295169	2.95E-02	8.84E-03	3.35E-03
1798	457461.1	3767855	0.0298482	2.98E-02	8.94E-03	3.39E-03
1799	457451.2	3767855	0.0301284	3.01E-02	9.02E-03	3.42E-03
1800	457441.2	3767855	0.0303691	3.04E-02	9.10E-03	3.45E-03
1801	457431.3	3767855	0.0305595	3.06E-02	9.15E-03	3.47E-03
1802	457421.4	3767855	0.0306926	3.07E-02	9.19E-03	3.48E-03
1803	457411.4	3767855	0.0307611	3.08E-02	9.21E-03	3.49E-03
1804	457401.5	3767855	0.0307681	3.08E-02	9.22E-03	3.49E-03
1805	457391.5	3767855	0.0307147	3.07E-02	9.20E-03	3.48E-03
1806	457381.6	3767855	0.0305956	3.06E-02	9.16E-03	3.47E-03
1807	457371.6	3767855	0.0304118	3.04E-02	9.11E-03	3.45E-03
1808	457361.7	3767855	0.0301678	3.02E-02	9.04E-03	3.42E-03
1809	457351.7	3767855	0.0298785	2.99E-02	8.95E-03	3.39E-03
1810	457341.8	3767855	0.0295345	2.95E-02	8.85E-03	3.35E-03
1811	457331.8	3767855	0.0291313	2.91E-02	8.73E-03	3.31E-03
1812	457823.1	3767880	0.0079962	8.00E-03	2.39E-03	9.07E-04
1813	457831.9	3767884	0.0078334	7.83E-03	2.35E-03	8.89E-04
1814	457844.4	3767896	0.0078472	7.85E-03	2.35E-03	8.90E-04
1815	457848.1	3767905	0.0080315	8.03E-03	2.41E-03	9.11E-04
1816	457851.8	3767914	0.0082376	8.24E-03	2.47E-03	9.35E-04
1817	457855.6	3767922	0.0084678	8.47E-03	2.54E-03	9.61E-04
1818	457859.3	3767931	0.0087247	8.72E-03	2.61E-03	9.90E-04
1819	457863	3767940	0.0090111	9.01E-03	2.70E-03	1.02E-03
1820	457866.7	3767949	0.0093298	9.33E-03	2.79E-03	1.06E-03
1821	457870.4	3767957	0.0096813	9.68E-03	2.90E-03	1.10E-03
1822	457874.1	3767966	0.0100616	1.01E-02	3.01E-03	1.14E-03
1823	457877.9	3767975	0.0104802	1.05E-02	3.14E-03	1.19E-03
1824	457881.6	3767984	0.0109381	1.09E-02	3.28E-03	1.24E-03
1825	457885.3	3767992	0.0114381	1.14E-02	3.43E-03	1.30E-03
1826	457889	3768001	0.0119774	1.20E-02	3.59E-03	1.36E-03
1827	457892.7	3768010	0.0125536	1.26E-02	3.76E-03	1.42E-03
1828	457896.5	3768019	0.013162	1.32E-02	3.94E-03	1.49E-03
1829	457689.9	3767830	0.0124085	1.24E-02	3.72E-03	1.41E-03
1830	457680	3767830	0.0130292	1.30E-02	3.90E-03	1.48E-03

1831	457670	3767830	0.0136734	1.37E-02	4.10E-03	1.55E-03
1832	457660.1	3767830	0.0143372	1.43E-02	4.29E-03	1.63E-03
1833	457650.1	3767830	0.015024	1.50E-02	4.50E-03	1.70E-03
1834	457640.2	3767830	0.0157246	1.57E-02	4.71E-03	1.78E-03
1835	457630.2	3767830	0.0164357	1.64E-02	4.92E-03	1.86E-03
1836	457620.3	3767830	0.0171512	1.72E-02	5.14E-03	1.95E-03
1837	457610.3	3767830	0.0178693	1.79E-02	5.35E-03	2.03E-03
1838	457600.4	3767830	0.0185847	1.86E-02	5.57E-03	2.11E-03
1839	457590.4	3767830	0.0192865	1.93E-02	5.78E-03	2.19E-03
1840	457580.5	3767830	0.0199768	2.00E-02	5.98E-03	2.27E-03
1841	457570.5	3767830	0.0206503	2.07E-02	6.19E-03	2.34E-03
1842	457560.6	3767830	0.0213151	2.13E-02	6.38E-03	2.42E-03
1843	457550.6	3767830	0.0219584	2.20E-02	6.58E-03	2.49E-03
1844	457540.7	3767830	0.0225778	2.26E-02	6.76E-03	2.56E-03
1845	457530.8	3767830	0.0231647	2.32E-02	6.94E-03	2.63E-03
1846	457520.8	3767830	0.0237222	2.37E-02	7.11E-03	2.69E-03
1847	457510.9	3767830	0.0242461	2.42E-02	7.26E-03	2.75E-03
1848	457500.9	3767830	0.024725	2.47E-02	7.41E-03	2.81E-03
1849	457491	3767830	0.0251652	2.52E-02	7.54E-03	2.86E-03
1850	457481	3767830	0.0255641	2.56E-02	7.66E-03	2.90E-03
1851	457471.1	3767830	0.0259378	2.59E-02	7.77E-03	2.94E-03
1852	457461.1	3767830	0.0262711	2.63E-02	7.87E-03	2.98E-03
1853	457451.2	3767830	0.0265625	2.66E-02	7.96E-03	3.01E-03
1854	457441.2	3767830	0.0268077	2.68E-02	8.03E-03	3.04E-03
1855	457431.3	3767830	0.0270087	2.70E-02	8.09E-03	3.06E-03
1856	457421.3	3767830	0.0271612	2.72E-02	8.14E-03	3.08E-03
1857	457411.4	3767830	0.0272475	2.72E-02	8.16E-03	3.09E-03
1858	457401.4	3767830	0.0272782	2.73E-02	8.17E-03	3.09E-03
1859	457391.5	3767830	0.0272572	2.73E-02	8.16E-03	3.09E-03
1860	457381.5	3767830	0.0272086	2.72E-02	8.15E-03	3.09E-03
1861	457371.6	3767830	0.0271127	2.71E-02	8.12E-03	3.08E-03
1862	457361.6	3767830	0.026967	2.70E-02	8.08E-03	3.06E-03
1863	457351.7	3767830	0.0267696	2.68E-02	8.02E-03	3.04E-03
1864	457341.7	3767830	0.0265237	2.65E-02	7.94E-03	3.01E-03
1865	457331.8	3767830	0.0262281	2.62E-02	7.86E-03	2.98E-03
1866	457726.2	3767815	0.0098499	9.85E-03	2.95E-03	1.12E-03
1867	457735	3767819	0.0095681	9.57E-03	2.87E-03	1.09E-03
1868	457743.8	3767823	0.009294	9.29E-03	2.78E-03	1.05E-03
1869	457752.6	3767826	0.0090293	9.03E-03	2.70E-03	1.02E-03
1870	457865.7	3767887	0.0070419	7.04E-03	2.11E-03	7.99E-04
1871	457869.4	3767896	0.0072035	7.20E-03	2.16E-03	8.17E-04
1872	457873.1	3767904	0.0073836	7.38E-03	2.21E-03	8.38E-04
1873	457876.8	3767913	0.0075836	7.58E-03	2.27E-03	8.60E-04
1874	457880.6	3767922	0.0078056	7.81E-03	2.34E-03	8.86E-04
1875	457884.3	3767931	0.0080504	8.05E-03	2.41E-03	9.13E-04
1876	457888	3767939	0.0083186	8.32E-03	2.49E-03	9.44E-04
1877	457891.7	3767948	0.0086126	8.61E-03	2.58E-03	9.77E-04

1878	457895.4	3767957	0.0089338	8.93E-03	2.68E-03	1.01E-03
1879	457899.1	3767966	0.0092871	9.29E-03	2.78E-03	1.05E-03
1880	457902.9	3767974	0.0096729	9.67E-03	2.90E-03	1.10E-03
1881	457906.6	3767983	0.0100892	1.01E-02	3.02E-03	1.14E-03
1882	457910.3	3767992	0.0105354	1.05E-02	3.16E-03	1.20E-03
1883	457914	3768001	0.0110103	1.10E-02	3.30E-03	1.25E-03
1884	457917.7	3768009	0.0115123	1.15E-02	3.45E-03	1.31E-03
1885	457921.5	3768018	0.0120379	1.20E-02	3.61E-03	1.37E-03
1886	457689.9	3767805	0.0112269	1.12E-02	3.36E-03	1.27E-03
1887	457679.9	3767805	0.0117569	1.18E-02	3.52E-03	1.33E-03
1888	457670	3767805	0.012307	1.23E-02	3.69E-03	1.40E-03
1889	457660	3767805	0.0128739	1.29E-02	3.86E-03	1.46E-03
1890	457650.1	3767805	0.0134559	1.35E-02	4.03E-03	1.53E-03
1891	457640.2	3767805	0.0140491	1.40E-02	4.21E-03	1.59E-03
1892	457630.2	3767805	0.014653	1.47E-02	4.39E-03	1.66E-03
1893	457620.3	3767805	0.0152565	1.53E-02	4.57E-03	1.73E-03
1894	457610.3	3767805	0.0158621	1.59E-02	4.75E-03	1.80E-03
1895	457600.4	3767805	0.0164658	1.65E-02	4.93E-03	1.87E-03
1896	457590.4	3767805	0.0170734	1.71E-02	5.11E-03	1.94E-03
1897	457580.5	3767805	0.0176757	1.77E-02	5.29E-03	2.01E-03
1898	457570.5	3767805	0.0182672	1.83E-02	5.47E-03	2.07E-03
1899	457560.6	3767805	0.0188466	1.88E-02	5.64E-03	2.14E-03
1900	457550.6	3767805	0.0194092	1.94E-02	5.81E-03	2.20E-03
1901	457540.7	3767805	0.0199536	2.00E-02	5.98E-03	2.26E-03
1902	457530.7	3767805	0.0204642	2.05E-02	6.13E-03	2.32E-03
1903	457520.8	3767805	0.0209493	2.09E-02	6.27E-03	2.38E-03
1904	457510.8	3767805	0.0214066	2.14E-02	6.41E-03	2.43E-03
1905	457500.9	3767805	0.0218487	2.18E-02	6.54E-03	2.48E-03
1906	457490.9	3767805	0.0222641	2.23E-02	6.67E-03	2.53E-03
1907	457481	3767805	0.0226469	2.26E-02	6.78E-03	2.57E-03
1908	457471	3767805	0.0229976	2.30E-02	6.89E-03	2.61E-03
1909	457461.1	3767805	0.0233125	2.33E-02	6.98E-03	2.64E-03
1910	457451.1	3767805	0.0235922	2.36E-02	7.07E-03	2.68E-03
1911	457441.2	3767805	0.0238332	2.38E-02	7.14E-03	2.70E-03
1912	457431.2	3767805	0.0240363	2.40E-02	7.20E-03	2.73E-03
1913	457421.3	3767805	0.0242002	2.42E-02	7.25E-03	2.75E-03
1914	457411.3	3767805	0.0243074	2.43E-02	7.28E-03	2.76E-03
1915	457401.4	3767805	0.0243709	2.44E-02	7.30E-03	2.76E-03
1916	457391.4	3767805	0.0243897	2.44E-02	7.31E-03	2.77E-03
1917	457381.5	3767805	0.0243838	2.44E-02	7.30E-03	2.77E-03
1918	457371.5	3767805	0.024338	2.43E-02	7.29E-03	2.76E-03
1919	457361.6	3767805	0.0242505	2.43E-02	7.26E-03	2.75E-03
1920	457351.6	3767805	0.0241195	2.41E-02	7.22E-03	2.74E-03
1921	457341.7	3767805	0.0239475	2.39E-02	7.17E-03	2.72E-03
1922	457331.7	3767805	0.0237335	2.37E-02	7.11E-03	2.69E-03
1923	457726.2	3767790	0.0090448	9.04E-03	2.71E-03	1.03E-03
1924	457735	3767794	0.0087978	8.80E-03	2.64E-03	9.98E-04

1925	457743.8	3767798	0.0085567	8.56E-03	2.56E-03	9.71E-04
1926	457752.6	3767801	0.0083226	8.32E-03	2.49E-03	9.44E-04
1927	457761.4	3767805	0.0080959	8.10E-03	2.42E-03	9.19E-04
1928	457770.2	3767808	0.0078776	7.88E-03	2.36E-03	8.94E-04
1929	457779	3767812	0.0076686	7.67E-03	2.30E-03	8.70E-04
1930	457787.8	3767816	0.0074687	7.47E-03	2.24E-03	8.47E-04
1931	457796.6	3767819	0.0072771	7.28E-03	2.18E-03	8.26E-04
1932	457805.4	3767823	0.0070962	7.10E-03	2.13E-03	8.05E-04
1933	457814.2	3767826	0.0069265	6.93E-03	2.07E-03	7.86E-04
1934	457890.7	3767887	0.0065095	6.51E-03	1.95E-03	7.39E-04
1935	457894.4	3767895	0.0066682	6.67E-03	2.00E-03	7.57E-04
1936	457898.1	3767904	0.0068434	6.84E-03	2.05E-03	7.76E-04
1937	457901.8	3767913	0.0070366	7.04E-03	2.11E-03	7.98E-04
1938	457905.6	3767922	0.0072493	7.25E-03	2.17E-03	8.22E-04
1939	457909.3	3767930	0.0074813	7.48E-03	2.24E-03	8.49E-04
1940	457913	3767939	0.0077327	7.73E-03	2.32E-03	8.77E-04
1941	457916.7	3767948	0.0080066	8.01E-03	2.40E-03	9.08E-04
1942	457920.4	3767957	0.0083037	8.30E-03	2.49E-03	9.42E-04
1943	457924.1	3767965	0.0086298	8.63E-03	2.58E-03	9.79E-04
1944	457927.9	3767974	0.0089798	8.98E-03	2.69E-03	1.02E-03
1945	457931.6	3767983	0.009354	9.35E-03	2.80E-03	1.06E-03
1946	457935.3	3767992	0.0097515	9.75E-03	2.92E-03	1.11E-03
1947	457939	3768000	0.010171	1.02E-02	3.05E-03	1.15E-03
1948	457942.7	3768009	0.010611	1.06E-02	3.18E-03	1.20E-03
1949	457946.5	3768018	0.0110683	1.11E-02	3.32E-03	1.26E-03
1950	457689.9	3767780	0.0102404	1.02E-02	3.07E-03	1.16E-03
1951	457679.9	3767780	0.0106964	1.07E-02	3.20E-03	1.21E-03
1952	457670	3767780	0.0111687	1.12E-02	3.35E-03	1.27E-03
1953	457660	3767780	0.0116548	1.17E-02	3.49E-03	1.32E-03
1954	457650.1	3767780	0.0121493	1.21E-02	3.64E-03	1.38E-03
1955	457640.1	3767780	0.0126531	1.27E-02	3.79E-03	1.44E-03
1956	457630.2	3767780	0.0131649	1.32E-02	3.94E-03	1.49E-03
1957	457620.2	3767780	0.0136865	1.37E-02	4.10E-03	1.55E-03
1958	457610.3	3767780	0.0142123	1.42E-02	4.26E-03	1.61E-03
1959	457600.3	3767780	0.0147391	1.47E-02	4.41E-03	1.67E-03
1960	457590.4	3767780	0.0152647	1.53E-02	4.57E-03	1.73E-03
1961	457580.4	3767780	0.0157866	1.58E-02	4.73E-03	1.79E-03
1962	457570.5	3767780	0.0163012	1.63E-02	4.88E-03	1.85E-03
1963	457560.5	3767780	0.0168072	1.68E-02	5.03E-03	1.91E-03
1964	457550.6	3767780	0.0173001	1.73E-02	5.18E-03	1.96E-03
1965	457540.6	3767780	0.0177803	1.78E-02	5.33E-03	2.02E-03
1966	457530.7	3767780	0.0182335	1.82E-02	5.46E-03	2.07E-03
1967	457520.7	3767780	0.0186669	1.87E-02	5.59E-03	2.12E-03
1968	457510.8	3767780	0.0190783	1.91E-02	5.71E-03	2.16E-03
1969	457500.8	3767780	0.0194775	1.95E-02	5.83E-03	2.21E-03
1970	457490.9	3767780	0.0198551	1.99E-02	5.95E-03	2.25E-03
1971	457480.9	3767780	0.0202059	2.02E-02	6.05E-03	2.29E-03

1972	457471	3767780	0.0205306	2.05E-02	6.15E-03	2.33E-03
1973	457461	3767780	0.0208252	2.08E-02	6.24E-03	2.36E-03
1974	457451.1	3767780	0.021091	2.11E-02	6.32E-03	2.39E-03
1975	457441.1	3767780	0.0213132	2.13E-02	6.38E-03	2.42E-03
1976	457431.2	3767780	0.0215013	2.15E-02	6.44E-03	2.44E-03
1977	457421.2	3767780	0.0216551	2.17E-02	6.49E-03	2.46E-03
1978	457411.3	3767780	0.0217846	2.18E-02	6.52E-03	2.47E-03
1979	457401.3	3767780	0.0218823	2.19E-02	6.55E-03	2.48E-03
1980	457391.4	3767780	0.0219435	2.19E-02	6.57E-03	2.49E-03
1981	457381.4	3767780	0.0219713	2.20E-02	6.58E-03	2.49E-03
1982	457371.5	3767780	0.0219627	2.20E-02	6.58E-03	2.49E-03
1983	457361.5	3767780	0.0219187	2.19E-02	6.56E-03	2.49E-03
1984	457351.6	3767780	0.0218378	2.18E-02	6.54E-03	2.48E-03
1985	457341.6	3767780	0.0217222	2.17E-02	6.51E-03	2.46E-03
1986	457331.7	3767780	0.0215707	2.16E-02	6.46E-03	2.45E-03
1987	457726.2	3767765	0.0083499	8.35E-03	2.50E-03	9.47E-04
1988	457735	3767769	0.008133	8.13E-03	2.44E-03	9.23E-04
1989	457743.8	3767773	0.0079204	7.92E-03	2.37E-03	8.99E-04
1990	457752.6	3767776	0.0077132	7.71E-03	2.31E-03	8.75E-04
1991	457761.4	3767780	0.007511	7.51E-03	2.25E-03	8.52E-04
1992	457770.2	3767783	0.0073154	7.32E-03	2.19E-03	8.30E-04
1993	457779	3767787	0.007127	7.13E-03	2.13E-03	8.09E-04
1994	457787.8	3767791	0.0069457	6.95E-03	2.08E-03	7.88E-04
1995	457796.6	3767794	0.0067723	6.77E-03	2.03E-03	7.68E-04
1996	457805.4	3767798	0.0066063	6.61E-03	1.98E-03	7.50E-04
1997	457814.2	3767801	0.0064478	6.45E-03	1.93E-03	7.32E-04
1998	457823	3767805	0.0062983	6.30E-03	1.89E-03	7.15E-04
1999	457831.8	3767809	0.0061575	6.16E-03	1.84E-03	6.99E-04
2000	457840.6	3767812	0.0060254	6.03E-03	1.80E-03	6.84E-04
2001	457849.4	3767816	0.0059014	5.90E-03	1.77E-03	6.70E-04
2002	457858.2	3767819	0.0057853	5.79E-03	1.73E-03	6.56E-04
2003	457867	3767823	0.0056773	5.68E-03	1.70E-03	6.44E-04
2004	457875.8	3767827	0.0055768	5.58E-03	1.67E-03	6.33E-04
2005	457919.4	3767895	0.0062152	6.22E-03	1.86E-03	7.05E-04
2006	457923.1	3767904	0.0063848	6.38E-03	1.91E-03	7.24E-04
2007	457926.8	3767913	0.0065703	6.57E-03	1.97E-03	7.45E-04
2008	457930.5	3767921	0.0067728	6.77E-03	2.03E-03	7.68E-04
2009	457934.3	3767930	0.0069907	6.99E-03	2.09E-03	7.93E-04
2010	457938	3767939	0.007226	7.23E-03	2.16E-03	8.20E-04
2011	457941.7	3767948	0.007481	7.48E-03	2.24E-03	8.49E-04
2012	457945.4	3767956	0.0077564	7.76E-03	2.32E-03	8.80E-04
2013	457949.1	3767965	0.008054	8.05E-03	2.41E-03	9.14E-04
2014	457952.9	3767974	0.0083717	8.37E-03	2.51E-03	9.50E-04
2015	457956.6	3767983	0.0087081	8.71E-03	2.61E-03	9.88E-04
2016	457960.3	3767991	0.0090628	9.06E-03	2.71E-03	1.03E-03
2017	457964	3768000	0.0094337	9.43E-03	2.83E-03	1.07E-03
2018	457967.7	3768009	0.0098186	9.82E-03	2.94E-03	1.11E-03

2019	457971.5	3768018	0.0102151	1.02E-02	3.06E-03	1.16E-03
2020	457689.8	3767755	0.0093975	9.40E-03	2.81E-03	1.07E-03
2021	457679.9	3767755	0.0097935	9.79E-03	2.93E-03	1.11E-03
2022	457669.9	3767755	0.0102028	1.02E-02	3.06E-03	1.16E-03
2023	457660	3767755	0.0106231	1.06E-02	3.18E-03	1.21E-03
2024	457650	3767755	0.0110508	1.11E-02	3.31E-03	1.25E-03
2025	457640.1	3767755	0.0114861	1.15E-02	3.44E-03	1.30E-03
2026	457630.1	3767755	0.0119281	1.19E-02	3.57E-03	1.35E-03
2027	457620.2	3767755	0.0123801	1.24E-02	3.71E-03	1.40E-03
2028	457610.2	3767755	0.0128364	1.28E-02	3.84E-03	1.46E-03
2029	457600.3	3767755	0.0132944	1.33E-02	3.98E-03	1.51E-03
2030	457590.3	3767755	0.0137514	1.38E-02	4.12E-03	1.56E-03
2031	457580.4	3767755	0.0142065	1.42E-02	4.26E-03	1.61E-03
2032	457570.4	3767755	0.0146563	1.47E-02	4.39E-03	1.66E-03
2033	457560.5	3767755	0.0150943	1.51E-02	4.52E-03	1.71E-03
2034	457550.5	3767755	0.0155223	1.55E-02	4.65E-03	1.76E-03
2035	457540.6	3767755	0.0159397	1.59E-02	4.77E-03	1.81E-03
2036	457530.6	3767755	0.0163468	1.63E-02	4.90E-03	1.85E-03
2037	457520.7	3767755	0.0167404	1.67E-02	5.01E-03	1.90E-03
2038	457510.7	3767755	0.0171173	1.71E-02	5.13E-03	1.94E-03
2039	457500.8	3767755	0.0174783	1.75E-02	5.24E-03	1.98E-03
2040	457490.8	3767755	0.0178209	1.78E-02	5.34E-03	2.02E-03
2041	457480.9	3767755	0.0181418	1.81E-02	5.43E-03	2.06E-03
2042	457470.9	3767755	0.0184328	1.84E-02	5.52E-03	2.09E-03
2043	457461	3767755	0.0186984	1.87E-02	5.60E-03	2.12E-03
2044	457451	3767755	0.0189388	1.89E-02	5.67E-03	2.15E-03
2045	457441.1	3767755	0.0191574	1.92E-02	5.74E-03	2.17E-03
2046	457431.1	3767755	0.01935	1.93E-02	5.80E-03	2.20E-03
2047	457421.2	3767755	0.0195148	1.95E-02	5.84E-03	2.21E-03
2048	457411.2	3767755	0.0196532	1.97E-02	5.89E-03	2.23E-03
2049	457401.3	3767755	0.0197638	1.98E-02	5.92E-03	2.24E-03
2050	457391.3	3767755	0.0198436	1.98E-02	5.94E-03	2.25E-03
2051	457381.4	3767755	0.0198936	1.99E-02	5.96E-03	2.26E-03
2052	457371.5	3767755	0.0199122	1.99E-02	5.96E-03	2.26E-03
2053	457361.5	3767755	0.0199007	1.99E-02	5.96E-03	2.26E-03
2054	457351.6	3767755	0.0198578	1.99E-02	5.95E-03	2.25E-03
2055	457341.6	3767755	0.0197851	1.98E-02	5.93E-03	2.24E-03
2056	457331.7	3767755	0.0196818	1.97E-02	5.90E-03	2.23E-03
2057	457727.3	3767741	0.0077175	7.72E-03	2.31E-03	8.76E-04
2058	457736.5	3767745	0.0075172	7.52E-03	2.25E-03	8.53E-04
2059	457745.6	3767748	0.0073212	7.32E-03	2.19E-03	8.31E-04
2060	457754.8	3767752	0.0071304	7.13E-03	2.14E-03	8.09E-04
2061	457764	3767756	0.006945	6.94E-03	2.08E-03	7.88E-04
2062	457773.2	3767760	0.0067646	6.76E-03	2.03E-03	7.67E-04
2063	457782.4	3767763	0.0065897	6.59E-03	1.97E-03	7.48E-04
2064	457791.6	3767767	0.0064207	6.42E-03	1.92E-03	7.28E-04
2065	457800.7	3767771	0.0062588	6.26E-03	1.87E-03	7.10E-04

2066	457809.9	3767775	0.006104	6.10E-03	1.83E-03	6.93E-04
2067	457819.1	3767778	0.0059563	5.96E-03	1.78E-03	6.76E-04
2068	457828.3	3767782	0.0058161	5.82E-03	1.74E-03	6.60E-04
2069	457837.5	3767786	0.005683	5.68E-03	1.70E-03	6.45E-04
2070	457846.6	3767790	0.0055571	5.56E-03	1.66E-03	6.30E-04
2071	457855.8	3767794	0.0054378	5.44E-03	1.63E-03	6.17E-04
2072	457865	3767797	0.0053262	5.33E-03	1.60E-03	6.04E-04
2073	457874.2	3767801	0.0052219	5.22E-03	1.56E-03	5.92E-04
2074	457883.4	3767805	0.005125	5.12E-03	1.54E-03	5.81E-04
2075	457892.6	3767809	0.0050348	5.03E-03	1.51E-03	5.71E-04
2076	457901.7	3767812	0.004951	4.95E-03	1.48E-03	5.62E-04
2077	457914.8	3767825	0.0049465	4.95E-03	1.48E-03	5.61E-04
2078	457945.8	3767898	0.0058882	5.89E-03	1.76E-03	6.68E-04
2079	457949.7	3767907	0.0060621	6.06E-03	1.82E-03	6.88E-04
2080	457953.6	3767917	0.006251	6.25E-03	1.87E-03	7.09E-04
2081	457957.5	3767926	0.0064552	6.46E-03	1.93E-03	7.32E-04
2082	457961.4	3767935	0.0066791	6.68E-03	2.00E-03	7.58E-04
2083	457965.2	3767944	0.0069219	6.92E-03	2.07E-03	7.85E-04
2084	457969.1	3767953	0.0071821	7.18E-03	2.15E-03	8.15E-04
2085	457973	3767962	0.0074599	7.46E-03	2.23E-03	8.46E-04
2086	457976.9	3767971	0.0077553	7.76E-03	2.32E-03	8.80E-04
2087	457980.8	3767980	0.0080677	8.07E-03	2.42E-03	9.15E-04
2088	457984.7	3767990	0.0083946	8.39E-03	2.51E-03	9.52E-04
2089	457988.5	3767999	0.0087331	8.73E-03	2.62E-03	9.91E-04
2090	457992.4	3768008	0.0090836	9.08E-03	2.72E-03	1.03E-03
2091	457996.3	3768017	0.0094465	9.45E-03	2.83E-03	1.07E-03
2092	457689.8	3767730	0.0086688	8.67E-03	2.60E-03	9.84E-04
2093	457679.8	3767730	0.0090137	9.01E-03	2.70E-03	1.02E-03
2094	457669.9	3767730	0.0093694	9.37E-03	2.81E-03	1.06E-03
2095	457659.9	3767730	0.009734	9.73E-03	2.92E-03	1.10E-03
2096	457650	3767730	0.0101083	1.01E-02	3.03E-03	1.15E-03
2097	457640	3767730	0.0104897	1.05E-02	3.14E-03	1.19E-03
2098	457630.1	3767730	0.0108774	1.09E-02	3.26E-03	1.23E-03
2099	457620.1	3767730	0.0112716	1.13E-02	3.38E-03	1.28E-03
2100	457610.2	3767730	0.0116698	1.17E-02	3.50E-03	1.32E-03
2101	457600.2	3767730	0.0120699	1.21E-02	3.62E-03	1.37E-03
2102	457590.3	3767730	0.0124698	1.25E-02	3.73E-03	1.41E-03
2103	457580.3	3767730	0.0128688	1.29E-02	3.85E-03	1.46E-03
2104	457570.4	3767730	0.0132636	1.33E-02	3.97E-03	1.50E-03
2105	457560.4	3767730	0.0136485	1.36E-02	4.09E-03	1.55E-03
2106	457550.5	3767730	0.0140246	1.40E-02	4.20E-03	1.59E-03
2107	457540.5	3767730	0.0143921	1.44E-02	4.31E-03	1.63E-03
2108	457530.6	3767730	0.0147563	1.48E-02	4.42E-03	1.67E-03
2109	457520.6	3767730	0.0151104	1.51E-02	4.53E-03	1.71E-03
2110	457510.7	3767730	0.0154515	1.55E-02	4.63E-03	1.75E-03
2111	457500.7	3767730	0.0157776	1.58E-02	4.73E-03	1.79E-03
2112	457490.8	3767730	0.0160883	1.61E-02	4.82E-03	1.83E-03

2113	457480.8	3767730	0.0163811	1.64E-02	4.91E-03	1.86E-03
2114	457470.9	3767730	0.0166469	1.66E-02	4.99E-03	1.89E-03
2115	457461	3767730	0.0168905	1.69E-02	5.06E-03	1.92E-03
2116	457451	3767730	0.017113	1.71E-02	5.13E-03	1.94E-03
2117	457441.1	3767730	0.0173227	1.73E-02	5.19E-03	1.97E-03
2118	457431.1	3767730	0.0175123	1.75E-02	5.25E-03	1.99E-03
2119	457421.2	3767730	0.0176783	1.77E-02	5.29E-03	2.01E-03
2120	457411.2	3767730	0.0178192	1.78E-02	5.34E-03	2.02E-03
2121	457401.3	3767730	0.0179358	1.79E-02	5.37E-03	2.03E-03
2122	457391.3	3767730	0.0180262	1.80E-02	5.40E-03	2.05E-03
2123	457381.4	3767730	0.0180913	1.81E-02	5.42E-03	2.05E-03
2124	457371.4	3767730	0.0181297	1.81E-02	5.43E-03	2.06E-03
2125	457361.5	3767730	0.0181424	1.81E-02	5.43E-03	2.06E-03
2126	457351.5	3767730	0.018128	1.81E-02	5.43E-03	2.06E-03
2127	457341.6	3767730	0.0180882	1.81E-02	5.42E-03	2.05E-03
2128	457331.6	3767730	0.0180219	1.80E-02	5.40E-03	2.04E-03
2129	457727.1	3767716	0.0071917	7.19E-03	2.15E-03	8.16E-04
2130	457736.3	3767720	0.0070141	7.01E-03	2.10E-03	7.96E-04
2131	457745.4	3767723	0.0068395	6.84E-03	2.05E-03	7.76E-04
2132	457754.6	3767727	0.0066684	6.67E-03	2.00E-03	7.57E-04
2133	457763.7	3767731	0.0065019	6.50E-03	1.95E-03	7.38E-04
2134	457772.9	3767735	0.0063398	6.34E-03	1.90E-03	7.19E-04
2135	457782.1	3767738	0.0061826	6.18E-03	1.85E-03	7.01E-04
2136	457791.2	3767742	0.0060301	6.03E-03	1.81E-03	6.84E-04
2137	457800.4	3767746	0.0058827	5.88E-03	1.76E-03	6.67E-04
2138	457809.5	3767750	0.0057407	5.74E-03	1.72E-03	6.51E-04
2139	457818.7	3767753	0.0056043	5.60E-03	1.68E-03	6.36E-04
2140	457827.8	3767757	0.0054742	5.47E-03	1.64E-03	6.21E-04
2141	457837	3767761	0.00535	5.35E-03	1.60E-03	6.07E-04
2142	457846.1	3767765	0.0052318	5.23E-03	1.57E-03	5.94E-04
2143	457855.3	3767768	0.0051197	5.12E-03	1.53E-03	5.81E-04
2144	457864.4	3767772	0.0050127	5.01E-03	1.50E-03	5.69E-04
2145	457873.6	3767776	0.0049111	4.91E-03	1.47E-03	5.57E-04
2146	457882.7	3767780	0.0048168	4.82E-03	1.44E-03	5.46E-04
2147	457891.9	3767783	0.0047282	4.73E-03	1.42E-03	5.36E-04
2148	457901	3767787	0.0046452	4.65E-03	1.39E-03	5.27E-04
2149	457910.2	3767791	0.0045676	4.57E-03	1.37E-03	5.18E-04
2150	457919.3	3767795	0.0044953	4.50E-03	1.35E-03	5.10E-04
2151	457932.3	3767807	0.0044896	4.49E-03	1.34E-03	5.09E-04
2152	457936.2	3767816	0.004556	4.56E-03	1.36E-03	5.17E-04
2153	457940.1	3767826	0.0046294	4.63E-03	1.39E-03	5.25E-04
2154	457971	3767898	0.0055508	5.55E-03	1.66E-03	6.30E-04
2155	457974.9	3767907	0.0057162	5.72E-03	1.71E-03	6.49E-04
2156	457978.8	3767917	0.0058957	5.90E-03	1.77E-03	6.69E-04
2157	457982.6	3767926	0.0060903	6.09E-03	1.82E-03	6.91E-04
2158	457986.5	3767935	0.0063	6.30E-03	1.89E-03	7.15E-04
2159	457990.4	3767944	0.0065245	6.52E-03	1.95E-03	7.40E-04

2160	457994.2	3767953	0.0067637	6.76E-03	2.03E-03	7.67E-04
2161	457998.1	3767962	0.0070171	7.02E-03	2.10E-03	7.96E-04
2162	458002	3767971	0.007283	7.28E-03	2.18E-03	8.26E-04
2163	458005.8	3767980	0.0075613	7.56E-03	2.26E-03	8.58E-04
2164	458009.7	3767989	0.0078519	7.85E-03	2.35E-03	8.91E-04
2165	458013.6	3767999	0.0081548	8.15E-03	2.44E-03	9.25E-04
2166	458017.4	3768008	0.0084689	8.47E-03	2.54E-03	9.61E-04
2167	458021.3	3768017	0.008793	8.79E-03	2.63E-03	9.98E-04
2168	457689.7	3767705	0.0080323	8.03E-03	2.41E-03	9.11E-04
2169	457679.8	3767705	0.0083352	8.34E-03	2.50E-03	9.46E-04
2170	457669.8	3767705	0.0086463	8.65E-03	2.59E-03	9.81E-04
2171	457659.9	3767705	0.0089653	8.97E-03	2.69E-03	1.02E-03
2172	457649.9	3767705	0.0092951	9.30E-03	2.78E-03	1.05E-03
2173	457640	3767705	0.0096314	9.63E-03	2.88E-03	1.09E-03
2174	457630	3767705	0.0099735	9.97E-03	2.99E-03	1.13E-03
2175	457620.1	3767705	0.0103196	1.03E-02	3.09E-03	1.17E-03
2176	457610.1	3767705	0.0106693	1.07E-02	3.20E-03	1.21E-03
2177	457600.2	3767705	0.011021	1.10E-02	3.30E-03	1.25E-03
2178	457590.2	3767705	0.0113711	1.14E-02	3.41E-03	1.29E-03
2179	457580.3	3767705	0.0117202	1.17E-02	3.51E-03	1.33E-03
2180	457570.4	3767705	0.0120671	1.21E-02	3.61E-03	1.37E-03
2181	457560.4	3767705	0.0124091	1.24E-02	3.72E-03	1.41E-03
2182	457550.5	3767705	0.0127452	1.27E-02	3.82E-03	1.45E-03
2183	457540.5	3767705	0.0130751	1.31E-02	3.92E-03	1.48E-03
2184	457530.6	3767705	0.0134004	1.34E-02	4.01E-03	1.52E-03
2185	457520.6	3767705	0.0137176	1.37E-02	4.11E-03	1.56E-03
2186	457510.7	3767705	0.0140242	1.40E-02	4.20E-03	1.59E-03
2187	457500.7	3767705	0.0143186	1.43E-02	4.29E-03	1.62E-03
2188	457490.8	3767705	0.0146006	1.46E-02	4.37E-03	1.66E-03
2189	457480.8	3767705	0.0148675	1.49E-02	4.45E-03	1.69E-03
2190	457470.9	3767705	0.0151125	1.51E-02	4.53E-03	1.71E-03
2191	457460.9	3767705	0.0153387	1.53E-02	4.59E-03	1.74E-03
2192	457451	3767705	0.0155474	1.55E-02	4.66E-03	1.76E-03
2193	457441	3767705	0.0157454	1.57E-02	4.72E-03	1.79E-03
2194	457431.1	3767705	0.0159263	1.59E-02	4.77E-03	1.81E-03
2195	457421.1	3767705	0.0160873	1.61E-02	4.82E-03	1.83E-03
2196	457411.2	3767705	0.016227	1.62E-02	4.86E-03	1.84E-03
2197	457401.2	3767705	0.0163462	1.63E-02	4.90E-03	1.85E-03
2198	457391.3	3767705	0.016443	1.64E-02	4.92E-03	1.87E-03
2199	457381.3	3767705	0.0165184	1.65E-02	4.95E-03	1.87E-03
2200	457371.4	3767705	0.0165707	1.66E-02	4.96E-03	1.88E-03
2201	457361.4	3767705	0.0166011	1.66E-02	4.97E-03	1.88E-03
2202	457351.5	3767705	0.016605	1.66E-02	4.97E-03	1.88E-03
2203	457341.5	3767705	0.0165865	1.66E-02	4.97E-03	1.88E-03
2204	457331.6	3767705	0.0165446	1.65E-02	4.96E-03	1.88E-03
2205	457727	3767691	0.006725	6.73E-03	2.01E-03	7.63E-04
2206	457736.2	3767695	0.0065666	6.57E-03	1.97E-03	7.45E-04

2207	457745.3	3767698	0.0064106	6.41E-03	1.92E-03	7.27E-04
2208	457754.4	3767702	0.0062571	6.26E-03	1.87E-03	7.10E-04
2209	457763.5	3767706	0.0061069	6.11E-03	1.83E-03	6.93E-04
2210	457772.7	3767709	0.00596	5.96E-03	1.79E-03	6.76E-04
2211	457781.8	3767713	0.0058175	5.82E-03	1.74E-03	6.60E-04
2212	457790.9	3767717	0.0056797	5.68E-03	1.70E-03	6.44E-04
2213	457800	3767721	0.005546	5.55E-03	1.66E-03	6.29E-04
2214	457809.2	3767724	0.0054168	5.42E-03	1.62E-03	6.15E-04
2215	457818.3	3767728	0.0052913	5.29E-03	1.58E-03	6.00E-04
2216	457827.4	3767732	0.0051709	5.17E-03	1.55E-03	5.87E-04
2217	457836.5	3767736	0.0050553	5.06E-03	1.51E-03	5.74E-04
2218	457845.7	3767739	0.0049447	4.94E-03	1.48E-03	5.61E-04
2219	457854.8	3767743	0.004839	4.84E-03	1.45E-03	5.49E-04
2220	457863.9	3767747	0.0047382	4.74E-03	1.42E-03	5.38E-04
2221	457873	3767751	0.0046427	4.64E-03	1.39E-03	5.27E-04
2222	457882.2	3767754	0.0045516	4.55E-03	1.36E-03	5.16E-04
2223	457891.3	3767758	0.0044649	4.46E-03	1.34E-03	5.07E-04
2224	457900.4	3767762	0.0043831	4.38E-03	1.31E-03	4.97E-04
2225	457909.5	3767766	0.0043068	4.31E-03	1.29E-03	4.89E-04
2226	457918.7	3767769	0.0042349	4.23E-03	1.27E-03	4.80E-04
2227	457927.8	3767773	0.0041676	4.17E-03	1.25E-03	4.73E-04
2228	457936.9	3767777	0.0041045	4.10E-03	1.23E-03	4.66E-04
2229	457949.9	3767790	0.0040967	4.10E-03	1.23E-03	4.65E-04
2230	457953.8	3767799	0.0041523	4.15E-03	1.24E-03	4.71E-04
2231	457957.6	3767808	0.0042133	4.21E-03	1.26E-03	4.78E-04
2232	457961.5	3767817	0.0042811	4.28E-03	1.28E-03	4.86E-04
2233	457965.3	3767826	0.0043558	4.36E-03	1.30E-03	4.94E-04
2234	457996.2	3767898	0.0052504	5.25E-03	1.57E-03	5.96E-04
2235	458000	3767908	0.0054094	5.41E-03	1.62E-03	6.14E-04
2236	458003.9	3767917	0.0055801	5.58E-03	1.67E-03	6.33E-04
2237	458007.7	3767926	0.0057632	5.76E-03	1.73E-03	6.54E-04
2238	458011.6	3767935	0.0059583	5.96E-03	1.78E-03	6.76E-04
2239	458015.5	3767944	0.0061661	6.17E-03	1.85E-03	7.00E-04
2240	458019.3	3767953	0.0063862	6.39E-03	1.91E-03	7.25E-04
2241	458023.2	3767962	0.0066147	6.61E-03	1.98E-03	7.50E-04
2242	458027	3767971	0.0068543	6.85E-03	2.05E-03	7.78E-04
2243	458030.9	3767980	0.0071052	7.11E-03	2.13E-03	8.06E-04
2244	458034.7	3767989	0.0073677	7.37E-03	2.21E-03	8.36E-04
2245	458038.6	3767998	0.0076405	7.64E-03	2.29E-03	8.67E-04
2246	458042.5	3768007	0.007922	7.92E-03	2.37E-03	8.99E-04
2247	458046.3	3768016	0.0082097	8.21E-03	2.46E-03	9.31E-04
2248	457689.7	3767680	0.0074703	7.47E-03	2.24E-03	8.48E-04
2249	457679.8	3767680	0.0077389	7.74E-03	2.32E-03	8.78E-04
2250	457669.8	3767680	0.0080151	8.02E-03	2.40E-03	9.09E-04
2251	457659.9	3767680	0.0082979	8.30E-03	2.49E-03	9.41E-04
2252	457649.9	3767680	0.0085894	8.59E-03	2.57E-03	9.75E-04
2253	457640	3767680	0.0088863	8.89E-03	2.66E-03	1.01E-03

2254	457630	3767680	0.0091884	9.19E-03	2.75E-03	1.04E-03
2255	457620.1	3767680	0.0094932	9.49E-03	2.84E-03	1.08E-03
2256	457610.1	3767680	0.0098013	9.80E-03	2.94E-03	1.11E-03
2257	457600.2	3767680	0.0101111	1.01E-02	3.03E-03	1.15E-03
2258	457590.2	3767680	0.0104188	1.04E-02	3.12E-03	1.18E-03
2259	457580.3	3767680	0.0107262	1.07E-02	3.21E-03	1.22E-03
2260	457570.3	3767680	0.0110313	1.10E-02	3.30E-03	1.25E-03
2261	457560.4	3767680	0.0113379	1.13E-02	3.40E-03	1.29E-03
2262	457550.4	3767680	0.0116406	1.16E-02	3.49E-03	1.32E-03
2263	457540.5	3767680	0.0119388	1.19E-02	3.58E-03	1.35E-03
2264	457530.5	3767680	0.0122305	1.22E-02	3.66E-03	1.39E-03
2265	457520.6	3767680	0.0125152	1.25E-02	3.75E-03	1.42E-03
2266	457510.6	3767680	0.0127916	1.28E-02	3.83E-03	1.45E-03
2267	457500.7	3767680	0.0130566	1.31E-02	3.91E-03	1.48E-03
2268	457490.7	3767680	0.013311	1.33E-02	3.99E-03	1.51E-03
2269	457480.8	3767680	0.0135531	1.36E-02	4.06E-03	1.54E-03
2270	457470.8	3767680	0.0137795	1.38E-02	4.13E-03	1.56E-03
2271	457460.9	3767680	0.0139907	1.40E-02	4.19E-03	1.59E-03
2272	457450.9	3767680	0.0141873	1.42E-02	4.25E-03	1.61E-03
2273	457441	3767680	0.0143736	1.44E-02	4.31E-03	1.63E-03
2274	457431	3767680	0.0145452	1.45E-02	4.36E-03	1.65E-03
2275	457421.1	3767680	0.0147	1.47E-02	4.40E-03	1.67E-03
2276	457411.1	3767680	0.0148368	1.48E-02	4.44E-03	1.68E-03
2277	457401.2	3767680	0.0149558	1.50E-02	4.48E-03	1.70E-03
2278	457391.2	3767680	0.015056	1.51E-02	4.51E-03	1.71E-03
2279	457381.3	3767680	0.0151378	1.51E-02	4.53E-03	1.72E-03
2280	457371.3	3767680	0.0151999	1.52E-02	4.55E-03	1.72E-03
2281	457361.4	3767680	0.015243	1.52E-02	4.57E-03	1.73E-03
2282	457351.4	3767680	0.0152587	1.53E-02	4.57E-03	1.73E-03
2283	457341.5	3767680	0.0152534	1.53E-02	4.57E-03	1.73E-03
2284	457331.5	3767680	0.0152279	1.52E-02	4.56E-03	1.73E-03
2285	457726.9	3767666	0.0063076	6.31E-03	1.89E-03	7.16E-04
2286	457736	3767670	0.0061658	6.17E-03	1.85E-03	7.00E-04
2287	457745.1	3767673	0.0060259	6.03E-03	1.80E-03	6.84E-04
2288	457754.2	3767677	0.0058881	5.89E-03	1.76E-03	6.68E-04
2289	457763.3	3767681	0.0057526	5.75E-03	1.72E-03	6.53E-04
2290	457772.4	3767684	0.0056201	5.62E-03	1.68E-03	6.38E-04
2291	457781.5	3767688	0.0054908	5.49E-03	1.64E-03	6.23E-04
2292	457790.6	3767692	0.0053654	5.37E-03	1.61E-03	6.09E-04
2293	457799.7	3767696	0.0052436	5.24E-03	1.57E-03	5.95E-04
2294	457808.8	3767699	0.0051253	5.13E-03	1.54E-03	5.81E-04
2295	457818	3767703	0.0050098	5.01E-03	1.50E-03	5.68E-04
2296	457827.1	3767707	0.0048986	4.90E-03	1.47E-03	5.56E-04
2297	457836.2	3767711	0.0047914	4.79E-03	1.44E-03	5.44E-04
2298	457845.3	3767714	0.004688	4.69E-03	1.40E-03	5.32E-04
2299	457854.4	3767718	0.0045891	4.59E-03	1.37E-03	5.21E-04
2300	457863.5	3767722	0.0044943	4.49E-03	1.35E-03	5.10E-04

2301	457872.6	3767725	0.0044038	4.40E-03	1.32E-03	5.00E-04
2302	457881.7	3767729	0.0043171	4.32E-03	1.29E-03	4.90E-04
2303	457890.8	3767733	0.0042347	4.23E-03	1.27E-03	4.80E-04
2304	457899.9	3767737	0.0041559	4.16E-03	1.24E-03	4.72E-04
2305	457909	3767740	0.004081	4.08E-03	1.22E-03	4.63E-04
2306	457918.1	3767744	0.0040102	4.01E-03	1.20E-03	4.55E-04
2307	457927.2	3767748	0.0039437	3.94E-03	1.18E-03	4.47E-04
2308	457936.3	3767752	0.003881	3.88E-03	1.16E-03	4.40E-04
2309	457945.4	3767755	0.003822	3.82E-03	1.14E-03	4.34E-04
2310	457954.5	3767759	0.0037666	3.77E-03	1.13E-03	4.27E-04
2311	457967.4	3767772	0.003758	3.76E-03	1.13E-03	4.26E-04
2312	457971.3	3767781	0.0038051	3.81E-03	1.14E-03	4.32E-04
2313	457975.1	3767790	0.0038566	3.86E-03	1.16E-03	4.38E-04
2314	457979	3767799	0.0039131	3.91E-03	1.17E-03	4.44E-04
2315	457982.8	3767808	0.0039752	3.98E-03	1.19E-03	4.51E-04
2316	457986.7	3767817	0.0040433	4.04E-03	1.21E-03	4.59E-04
2317	457990.5	3767826	0.0041174	4.12E-03	1.23E-03	4.67E-04
2318	458021.3	3767898	0.004985	4.98E-03	1.49E-03	5.66E-04
2319	458025.2	3767908	0.0051355	5.14E-03	1.54E-03	5.83E-04
2320	458029	3767917	0.005296	5.30E-03	1.59E-03	6.01E-04
2321	458032.9	3767926	0.005467	5.47E-03	1.64E-03	6.20E-04
2322	458036.7	3767935	0.0056474	5.65E-03	1.69E-03	6.41E-04
2323	458040.5	3767944	0.005837	5.84E-03	1.75E-03	6.62E-04
2324	458044.4	3767953	0.0060358	6.04E-03	1.81E-03	6.85E-04
2325	458048.2	3767962	0.0062455	6.25E-03	1.87E-03	7.09E-04
2326	458052.1	3767971	0.0064658	6.47E-03	1.94E-03	7.34E-04
2327	458055.9	3767980	0.0066953	6.70E-03	2.01E-03	7.60E-04
2328	458059.8	3767989	0.0069334	6.93E-03	2.08E-03	7.87E-04
2329	458063.6	3767998	0.0071786	7.18E-03	2.15E-03	8.14E-04
2330	458067.5	3768007	0.0074301	7.43E-03	2.23E-03	8.43E-04
2331	458071.3	3768016	0.0076868	7.69E-03	2.30E-03	8.72E-04
2332	457630	3767655	0.0085004	8.50E-03	2.55E-03	9.64E-04
2333	457620	3767655	0.0087687	8.77E-03	2.63E-03	9.95E-04
2334	457610.1	3767655	0.0090394	9.04E-03	2.71E-03	1.03E-03
2335	457600.1	3767655	0.0093112	9.31E-03	2.79E-03	1.06E-03
2336	457590.2	3767655	0.0095873	9.59E-03	2.87E-03	1.09E-03
2337	457580.2	3767655	0.0098641	9.86E-03	2.95E-03	1.12E-03
2338	457570.3	3767655	0.0101397	1.01E-02	3.04E-03	1.15E-03
2339	457560.3	3767655	0.0104136	1.04E-02	3.12E-03	1.18E-03
2340	457550.4	3767655	0.0106844	1.07E-02	3.20E-03	1.21E-03
2341	457540.4	3767655	0.0109516	1.10E-02	3.28E-03	1.24E-03
2342	457530.5	3767655	0.0112135	1.12E-02	3.36E-03	1.27E-03
2343	457520.5	3767655	0.0114699	1.15E-02	3.44E-03	1.30E-03
2344	457510.6	3767655	0.0117195	1.17E-02	3.51E-03	1.33E-03
2345	457500.6	3767655	0.0119553	1.20E-02	3.58E-03	1.36E-03
2346	457490.7	3767655	0.0121818	1.22E-02	3.65E-03	1.38E-03
2347	457480.7	3767655	0.0123976	1.24E-02	3.71E-03	1.41E-03

2348	457470.8	3767655	0.0126091	1.26E-02	3.78E-03	1.43E-03
2349	457460.8	3767655	0.0128096	1.28E-02	3.84E-03	1.45E-03
2350	457450.9	3767655	0.0129983	1.30E-02	3.89E-03	1.47E-03
2351	457440.9	3767655	0.0131736	1.32E-02	3.95E-03	1.49E-03
2352	457431	3767655	0.0133358	1.33E-02	3.99E-03	1.51E-03
2353	457421	3767655	0.0134836	1.35E-02	4.04E-03	1.53E-03
2354	457411.1	3767655	0.0136159	1.36E-02	4.08E-03	1.54E-03
2355	457401.1	3767655	0.0137335	1.37E-02	4.11E-03	1.56E-03
2356	457391.2	3767655	0.0138347	1.38E-02	4.14E-03	1.57E-03
2357	457381.2	3767655	0.0139201	1.39E-02	4.17E-03	1.58E-03
2358	457371.3	3767655	0.0139886	1.40E-02	4.19E-03	1.59E-03
2359	457361.3	3767655	0.0140408	1.40E-02	4.21E-03	1.59E-03
2360	457351.4	3767655	0.0140695	1.41E-02	4.21E-03	1.60E-03
2361	457341.4	3767655	0.01408	1.41E-02	4.22E-03	1.60E-03
2362	457331.5	3767655	0.0140728	1.41E-02	4.22E-03	1.60E-03
2363	457726.8	3767641	0.0059303	5.93E-03	1.78E-03	6.73E-04
2364	457735.9	3767644	0.005804	5.80E-03	1.74E-03	6.58E-04
2365	457745	3767648	0.0056787	5.68E-03	1.70E-03	6.44E-04
2366	457754.1	3767652	0.0055544	5.55E-03	1.66E-03	6.30E-04
2367	457763.2	3767656	0.0054321	5.43E-03	1.63E-03	6.16E-04
2368	457772.2	3767659	0.0053121	5.31E-03	1.59E-03	6.03E-04
2369	457781.3	3767663	0.0051944	5.19E-03	1.56E-03	5.89E-04
2370	457790.4	3767667	0.0050799	5.08E-03	1.52E-03	5.76E-04
2371	457799.5	3767671	0.0049682	4.97E-03	1.49E-03	5.64E-04
2372	457808.6	3767674	0.0048599	4.86E-03	1.46E-03	5.51E-04
2373	457817.7	3767678	0.0047543	4.75E-03	1.42E-03	5.39E-04
2374	457826.7	3767682	0.0046517	4.65E-03	1.39E-03	5.28E-04
2375	457835.8	3767685	0.0045526	4.55E-03	1.36E-03	5.17E-04
2376	457844.9	3767689	0.0044567	4.46E-03	1.33E-03	5.06E-04
2377	457854	3767693	0.0043641	4.36E-03	1.31E-03	4.95E-04
2378	457863.1	3767697	0.0042752	4.28E-03	1.28E-03	4.85E-04
2379	457872.2	3767700	0.0041896	4.19E-03	1.25E-03	4.75E-04
2380	457881.2	3767704	0.0041076	4.11E-03	1.23E-03	4.66E-04
2381	457890.3	3767708	0.0040291	4.03E-03	1.21E-03	4.57E-04
2382	457899.4	3767711	0.0039542	3.95E-03	1.18E-03	4.49E-04
2383	457908.5	3767715	0.0038825	3.88E-03	1.16E-03	4.40E-04
2384	457917.6	3767719	0.003814	3.81E-03	1.14E-03	4.33E-04
2385	457926.7	3767723	0.0037483	3.75E-03	1.12E-03	4.25E-04
2386	457935.7	3767726	0.0036866	3.69E-03	1.10E-03	4.18E-04
2387	457944.8	3767730	0.0036283	3.63E-03	1.09E-03	4.12E-04
2388	457953.9	3767734	0.0035731	3.57E-03	1.07E-03	4.05E-04
2389	457963	3767737	0.0035211	3.52E-03	1.05E-03	3.99E-04
2390	457972.1	3767741	0.003472	3.47E-03	1.04E-03	3.94E-04
2391	457985	3767754	0.0034628	3.46E-03	1.04E-03	3.93E-04
2392	457988.8	3767763	0.0035028	3.50E-03	1.05E-03	3.97E-04
2393	457992.7	3767772	0.0035462	3.55E-03	1.06E-03	4.02E-04
2394	458046.4	3767898	0.0047448	4.74E-03	1.42E-03	5.38E-04

2395	458050.3	3767908	0.0048867	4.89E-03	1.46E-03	5.54E-04
2396	458054.1	3767917	0.0050373	5.04E-03	1.51E-03	5.72E-04
2397	458057.9	3767926	0.0051972	5.20E-03	1.56E-03	5.90E-04
2398	458061.8	3767935	0.0053636	5.36E-03	1.61E-03	6.09E-04
2399	458065.6	3767944	0.0055383	5.54E-03	1.66E-03	6.28E-04
2400	458069.5	3767953	0.0057215	5.72E-03	1.71E-03	6.49E-04
2401	458073.3	3767962	0.0059139	5.91E-03	1.77E-03	6.71E-04
2402	458077.1	3767971	0.006115	6.12E-03	1.83E-03	6.94E-04
2403	458081	3767980	0.0063237	6.32E-03	1.89E-03	7.17E-04
2404	458084.8	3767989	0.0065386	6.54E-03	1.96E-03	7.42E-04
2405	458088.7	3767998	0.0067598	6.76E-03	2.02E-03	7.67E-04
2406	458092.5	3768007	0.0069857	6.99E-03	2.09E-03	7.93E-04
2407	458096.3	3768016	0.0072159	7.22E-03	2.16E-03	8.19E-04
2408	457629.9	3767630	0.0078867	7.89E-03	2.36E-03	8.95E-04
2409	457620	3767630	0.0081281	8.13E-03	2.43E-03	9.22E-04
2410	457610	3767630	0.008372	8.37E-03	2.51E-03	9.50E-04
2411	457600.1	3767630	0.0086178	8.62E-03	2.58E-03	9.78E-04
2412	457590.1	3767630	0.0088647	8.86E-03	2.66E-03	1.01E-03
2413	457580.2	3767630	0.0091122	9.11E-03	2.73E-03	1.03E-03
2414	457570.2	3767630	0.0093589	9.36E-03	2.80E-03	1.06E-03
2415	457560.3	3767630	0.0096044	9.60E-03	2.88E-03	1.09E-03
2416	457550.3	3767630	0.0098473	9.85E-03	2.95E-03	1.12E-03
2417	457540.4	3767630	0.0100876	1.01E-02	3.02E-03	1.14E-03
2418	457530.4	3767630	0.0103236	1.03E-02	3.09E-03	1.17E-03
2419	457520.5	3767630	0.0105552	1.06E-02	3.16E-03	1.20E-03
2420	457510.5	3767630	0.0107809	1.08E-02	3.23E-03	1.22E-03
2421	457500.6	3767630	0.0109955	1.10E-02	3.29E-03	1.25E-03
2422	457490.6	3767630	0.0112022	1.12E-02	3.36E-03	1.27E-03
2423	457480.7	3767630	0.0114	1.14E-02	3.41E-03	1.29E-03
2424	457470.7	3767630	0.0115943	1.16E-02	3.47E-03	1.32E-03
2425	457460.8	3767630	0.0117794	1.18E-02	3.53E-03	1.34E-03
2426	457450.8	3767630	0.0119546	1.20E-02	3.58E-03	1.36E-03
2427	457440.9	3767630	0.0121184	1.21E-02	3.63E-03	1.37E-03
2428	457430.9	3767630	0.0122711	1.23E-02	3.68E-03	1.39E-03
2429	457421	3767630	0.0124115	1.24E-02	3.72E-03	1.41E-03
2430	457411.1	3767630	0.0125389	1.25E-02	3.76E-03	1.42E-03
2431	457401.1	3767630	0.0126535	1.27E-02	3.79E-03	1.44E-03
2432	457391.2	3767630	0.0127541	1.28E-02	3.82E-03	1.45E-03
2433	457381.2	3767630	0.0128412	1.28E-02	3.85E-03	1.46E-03
2434	457371.3	3767630	0.0129136	1.29E-02	3.87E-03	1.47E-03
2435	457361.3	3767630	0.0129718	1.30E-02	3.89E-03	1.47E-03
2436	457351.4	3767630	0.0130146	1.30E-02	3.90E-03	1.48E-03
2437	457341.4	3767630	0.0130425	1.30E-02	3.91E-03	1.48E-03
2438	457331.5	3767630	0.0130556	1.31E-02	3.91E-03	1.48E-03
2439	457763.3	3767616	0.004973	4.97E-03	1.49E-03	5.64E-04
2440	457772.4	3767619	0.0048699	4.87E-03	1.46E-03	5.53E-04
2441	457781.5	3767623	0.0047683	4.77E-03	1.43E-03	5.41E-04

2442	457790.6	3767627	0.0046685	4.67E-03	1.40E-03	5.30E-04
2443	457799.7	3767631	0.0045709	4.57E-03	1.37E-03	5.19E-04
2444	457808.8	3767634	0.0044754	4.48E-03	1.34E-03	5.08E-04
2445	457817.9	3767638	0.0043824	4.38E-03	1.31E-03	4.97E-04
2446	457827.1	3767642	0.0042918	4.29E-03	1.29E-03	4.87E-04
2447	457836.2	3767646	0.0042037	4.20E-03	1.26E-03	4.77E-04
2448	457845.3	3767649	0.0041186	4.12E-03	1.23E-03	4.67E-04
2449	457854.4	3767653	0.0040363	4.04E-03	1.21E-03	4.58E-04
2450	457863.5	3767657	0.0039567	3.96E-03	1.19E-03	4.49E-04
2451	457872.6	3767660	0.0038795	3.88E-03	1.16E-03	4.40E-04
2452	457881.7	3767664	0.0038047	3.80E-03	1.14E-03	4.32E-04
2453	457890.8	3767668	0.0037327	3.73E-03	1.12E-03	4.23E-04
2454	457899.9	3767672	0.0036634	3.66E-03	1.10E-03	4.16E-04
2455	457909	3767675	0.0035969	3.60E-03	1.08E-03	4.08E-04
2456	457918.2	3767679	0.003533	3.53E-03	1.06E-03	4.01E-04
2457	457927.3	3767683	0.0034718	3.47E-03	1.04E-03	3.94E-04
2458	457936.4	3767687	0.0034133	3.41E-03	1.02E-03	3.87E-04
2459	457945.5	3767690	0.0033573	3.36E-03	1.01E-03	3.81E-04
2460	457954.6	3767694	0.003304	3.30E-03	9.90E-04	3.75E-04
2461	457963.7	3767698	0.0032532	3.25E-03	9.74E-04	3.69E-04
2462	457972.8	3767702	0.0032044	3.20E-03	9.60E-04	3.64E-04
2463	457981.9	3767705	0.0031581	3.16E-03	9.46E-04	3.58E-04
2464	457991	3767709	0.0031144	3.11E-03	9.33E-04	3.53E-04
2465	458086.3	3767898	0.0043925	4.39E-03	1.32E-03	4.98E-04
2466	458090.1	3767907	0.0045208	4.52E-03	1.35E-03	5.13E-04
2467	458094	3767916	0.0046558	4.66E-03	1.39E-03	5.28E-04
2468	458128.6	3767997	0.0061631	6.16E-03	1.85E-03	6.99E-04
2469	458132.5	3768006	0.0063561	6.36E-03	1.90E-03	7.21E-04
2470	458136.3	3768015	0.006552	6.55E-03	1.96E-03	7.43E-04
2471	457863.8	3767617	0.0036797	3.68E-03	1.10E-03	4.17E-04
2472	457873	3767621	0.0036101	3.61E-03	1.08E-03	4.10E-04
2473	457882.1	3767624	0.0035428	3.54E-03	1.06E-03	4.02E-04
2474	457891.2	3767628	0.0034775	3.48E-03	1.04E-03	3.95E-04
2475	457900.4	3767632	0.0034144	3.41E-03	1.02E-03	3.87E-04
2476	457909.5	3767636	0.003353	3.35E-03	1.00E-03	3.80E-04
2477	457918.6	3767639	0.0032938	3.29E-03	9.87E-04	3.74E-04
2478	457927.8	3767643	0.0032368	3.24E-03	9.69E-04	3.67E-04
2479	457936.9	3767647	0.003182	3.18E-03	9.53E-04	3.61E-04
2480	457946	3767651	0.0031292	3.13E-03	9.37E-04	3.55E-04
2481	457955.2	3767654	0.0030785	3.08E-03	9.22E-04	3.49E-04
2482	457964.3	3767658	0.0030299	3.03E-03	9.08E-04	3.44E-04
2483	457973.4	3767662	0.0029834	2.98E-03	8.94E-04	3.38E-04
2484	457982.6	3767666	0.0029389	2.94E-03	8.80E-04	3.33E-04
2485	457991.7	3767669	0.0028963	2.90E-03	8.67E-04	3.29E-04
2486	458126.1	3767897	0.0040856	4.09E-03	1.22E-03	4.64E-04
2487	458130	3767906	0.0042012	4.20E-03	1.26E-03	4.77E-04
2488	458133.8	3767915	0.0043223	4.32E-03	1.29E-03	4.90E-04

2489	458137.7	3767924	0.0044489	4.45E-03	1.33E-03	5.05E-04
2490	458141.6	3767933	0.0045821	4.58E-03	1.37E-03	5.20E-04
2491	458145.4	3767942	0.0047207	4.72E-03	1.41E-03	5.36E-04
2492	458149.3	3767951	0.0048644	4.86E-03	1.46E-03	5.52E-04
2493	458153.1	3767960	0.0050131	5.01E-03	1.50E-03	5.69E-04
2494	458157	3767970	0.0051659	5.17E-03	1.55E-03	5.86E-04
2495	458160.9	3767979	0.0053228	5.32E-03	1.59E-03	6.04E-04
2496	458164.7	3767988	0.0054829	5.48E-03	1.64E-03	6.22E-04
2497	458168.6	3767997	0.0056446	5.64E-03	1.69E-03	6.40E-04
2498	458172.4	3768006	0.0058084	5.81E-03	1.74E-03	6.59E-04
2499	458176.3	3768015	0.0059741	5.97E-03	1.79E-03	6.78E-04
2500	457955.6	3767615	0.0028855	2.89E-03	8.64E-04	3.27E-04
2501	457964.8	3767618	0.0028397	2.84E-03	8.51E-04	3.22E-04
2502	457973.9	3767622	0.0027955	2.80E-03	8.37E-04	3.17E-04
2503	457983.1	3767626	0.002753	2.75E-03	8.25E-04	3.12E-04
2504	458127.3	3767805	0.0030074	3.01E-03	9.01E-04	3.41E-04
2505	458131.2	3767814	0.0030682	3.07E-03	9.19E-04	3.48E-04
2506	458135.1	3767823	0.0031332	3.13E-03	9.38E-04	3.55E-04
2507	458138.9	3767832	0.0032025	3.20E-03	9.59E-04	3.63E-04
2508	458142.8	3767842	0.0032764	3.28E-03	9.81E-04	3.72E-04
2509	458146.7	3767851	0.0033546	3.35E-03	1.00E-03	3.81E-04
2510	458150.5	3767860	0.0034374	3.44E-03	1.03E-03	3.90E-04
2511	458154.4	3767869	0.0035247	3.52E-03	1.06E-03	4.00E-04
2512	458158.3	3767878	0.0036162	3.62E-03	1.08E-03	4.10E-04
2513	458162.1	3767887	0.0037118	3.71E-03	1.11E-03	4.21E-04
2514	458166	3767896	0.0038117	3.81E-03	1.14E-03	4.32E-04
2515	458169.9	3767905	0.0039171	3.92E-03	1.17E-03	4.44E-04
2516	458173.7	3767914	0.0040275	4.03E-03	1.21E-03	4.57E-04
2517	458177.6	3767923	0.0041424	4.14E-03	1.24E-03	4.70E-04
2518	458181.5	3767933	0.0042616	4.26E-03	1.28E-03	4.83E-04
2519	458185.4	3767942	0.0043849	4.38E-03	1.31E-03	4.97E-04
2520	458189.2	3767951	0.0045123	4.51E-03	1.35E-03	5.12E-04
2521	458193.1	3767960	0.0046431	4.64E-03	1.39E-03	5.27E-04
2522	458197	3767969	0.0047773	4.78E-03	1.43E-03	5.42E-04
2523	458200.8	3767978	0.0049144	4.91E-03	1.47E-03	5.58E-04
2524	458204.7	3767987	0.0050535	5.05E-03	1.51E-03	5.73E-04
2525	458208.6	3767996	0.0051937	5.19E-03	1.56E-03	5.89E-04
2526	458212.4	3768005	0.0053361	5.34E-03	1.60E-03	6.05E-04
2527	458216.3	3768014	0.0054805	5.48E-03	1.64E-03	6.22E-04
2528	458124.5	3767704	0.0023782	2.38E-03	7.12E-04	2.70E-04
2529	458128.4	3767713	0.002406	2.41E-03	7.21E-04	2.73E-04
2530	458132.3	3767722	0.002436	2.44E-03	7.30E-04	2.76E-04
2531	458136.2	3767731	0.0024683	2.47E-03	7.39E-04	2.80E-04
2532	458140	3767740	0.002503	2.50E-03	7.50E-04	2.84E-04
2533	458143.9	3767750	0.0025404	2.54E-03	7.61E-04	2.88E-04
2534	458147.8	3767759	0.0025803	2.58E-03	7.73E-04	2.93E-04
2535	458151.7	3767768	0.0026231	2.62E-03	7.86E-04	2.98E-04

2536	458155.5	3767777	0.0026686	2.67E-03	7.99E-04	3.03E-04
2537	458159.4	3767786	0.0027167	2.72E-03	8.14E-04	3.08E-04
2538	458163.3	3767795	0.0027679	2.77E-03	8.29E-04	3.14E-04
2539	458167.2	3767804	0.0028223	2.82E-03	8.45E-04	3.20E-04
2540	458171	3767813	0.0028806	2.88E-03	8.63E-04	3.27E-04
2541	458174.9	3767822	0.0029426	2.94E-03	8.81E-04	3.34E-04
2542	458178.8	3767832	0.0030083	3.01E-03	9.01E-04	3.41E-04
2543	458182.7	3767841	0.0030777	3.08E-03	9.22E-04	3.49E-04
2544	458186.5	3767850	0.0031509	3.15E-03	9.44E-04	3.57E-04
2545	458190.4	3767859	0.0032277	3.23E-03	9.67E-04	3.66E-04
2546	458194.3	3767868	0.0033084	3.31E-03	9.91E-04	3.75E-04
2547	458198.2	3767877	0.0033921	3.39E-03	1.02E-03	3.85E-04
2548	458202	3767886	0.0034796	3.48E-03	1.04E-03	3.95E-04
2549	458205.9	3767895	0.0035707	3.57E-03	1.07E-03	4.05E-04
2550	458209.8	3767905	0.0036667	3.67E-03	1.10E-03	4.16E-04
2551	458213.7	3767914	0.0037664	3.77E-03	1.13E-03	4.27E-04
2552	458217.5	3767923	0.0038697	3.87E-03	1.16E-03	4.39E-04
2553	458221.4	3767932	0.0039763	3.98E-03	1.19E-03	4.51E-04
2554	458225.3	3767941	0.0040863	4.09E-03	1.22E-03	4.64E-04
2555	458229.2	3767950	0.0041993	4.20E-03	1.26E-03	4.76E-04
2556	458233	3767959	0.0043148	4.31E-03	1.29E-03	4.90E-04
2557	458236.9	3767968	0.0044317	4.43E-03	1.33E-03	5.03E-04
2558	458240.8	3767977	0.0045509	4.55E-03	1.36E-03	5.16E-04
2559	458244.7	3767987	0.0046722	4.67E-03	1.40E-03	5.30E-04
2560	458248.5	3767996	0.0047966	4.80E-03	1.44E-03	5.44E-04
2561	458252.4	3768005	0.0049225	4.92E-03	1.47E-03	5.58E-04
2562	458256.3	3768014	0.0050491	5.05E-03	1.51E-03	5.73E-04
2563	458133.3	3767630	0.0020597	2.06E-03	6.17E-04	2.34E-04
2564	458137.2	3767639	0.0020759	2.08E-03	6.22E-04	2.36E-04
2565	458141	3767648	0.0020933	2.09E-03	6.27E-04	2.37E-04
2566	458144.9	3767657	0.0021121	2.11E-03	6.33E-04	2.40E-04
2567	458148.8	3767666	0.0021322	2.13E-03	6.39E-04	2.42E-04
2568	458152.7	3767676	0.0021537	2.15E-03	6.45E-04	2.44E-04
2569	458156.6	3767685	0.0021767	2.18E-03	6.52E-04	2.47E-04
2570	458160.5	3767694	0.002201	2.20E-03	6.59E-04	2.50E-04
2571	458164.3	3767703	0.002227	2.23E-03	6.67E-04	2.53E-04
2572	458168.2	3767712	0.0022548	2.25E-03	6.75E-04	2.56E-04
2573	458172.1	3767721	0.0022847	2.28E-03	6.84E-04	2.59E-04
2574	458176	3767730	0.0023169	2.32E-03	6.94E-04	2.63E-04
2575	458179.9	3767740	0.0023513	2.35E-03	7.04E-04	2.67E-04
2576	458183.7	3767749	0.002388	2.39E-03	7.15E-04	2.71E-04
2577	458187.6	3767758	0.002427	2.43E-03	7.27E-04	2.75E-04
2578	458191.5	3767767	0.0024686	2.47E-03	7.39E-04	2.80E-04
2579	458195.4	3767776	0.0025128	2.51E-03	7.53E-04	2.85E-04
2580	458199.3	3767785	0.0025592	2.56E-03	7.67E-04	2.90E-04
2581	458203.1	3767794	0.0026083	2.61E-03	7.81E-04	2.96E-04
2582	458207	3767803	0.0026602	2.66E-03	7.97E-04	3.02E-04

2583	458210.9	3767813	0.0027156	2.72E-03	8.13E-04	3.08E-04
2584	458214.8	3767822	0.0027741	2.77E-03	8.31E-04	3.15E-04
2585	458218.7	3767831	0.0028359	2.84E-03	8.49E-04	3.22E-04
2586	458222.5	3767840	0.0029008	2.90E-03	8.69E-04	3.29E-04
2587	458226.4	3767849	0.0029689	2.97E-03	8.89E-04	3.37E-04
2588	458230.3	3767858	0.0030403	3.04E-03	9.11E-04	3.45E-04
2589	458234.2	3767867	0.0031148	3.11E-03	9.33E-04	3.53E-04
2590	458238.1	3767877	0.0031918	3.19E-03	9.56E-04	3.62E-04
2591	458241.9	3767886	0.0032718	3.27E-03	9.80E-04	3.71E-04
2592	458245.8	3767895	0.0033549	3.35E-03	1.00E-03	3.81E-04
2593	458249.7	3767904	0.0034419	3.44E-03	1.03E-03	3.90E-04
2594	458253.6	3767913	0.003532	3.53E-03	1.06E-03	4.01E-04
2595	458257.5	3767922	0.003625	3.62E-03	1.09E-03	4.11E-04
2596	458261.3	3767931	0.0037208	3.72E-03	1.11E-03	4.22E-04
2597	458265.2	3767940	0.0038192	3.82E-03	1.14E-03	4.33E-04
2598	458269.1	3767950	0.0039199	3.92E-03	1.17E-03	4.45E-04
2599	458273	3767959	0.0040225	4.02E-03	1.20E-03	4.56E-04
2600	458276.9	3767968	0.0041262	4.13E-03	1.24E-03	4.68E-04
2601	458280.8	3767977	0.0042318	4.23E-03	1.27E-03	4.80E-04
2602	458284.6	3767986	0.0043387	4.34E-03	1.30E-03	4.92E-04
2603	458288.5	3767995	0.0044482	4.45E-03	1.33E-03	5.05E-04
2604	458292.4	3768004	0.0045588	4.56E-03	1.37E-03	5.17E-04
2605	458296.3	3768013	0.0046701	4.67E-03	1.40E-03	5.30E-04
2606	458169.2	3767620	0.001912	1.91E-03	5.73E-04	2.17E-04
2607	458173.1	3767629	0.0019275	1.93E-03	5.77E-04	2.19E-04
2608	458176.9	3767638	0.0019442	1.94E-03	5.82E-04	2.21E-04
2609	458180.8	3767647	0.0019619	1.96E-03	5.88E-04	2.23E-04
2610	458184.7	3767656	0.0019809	1.98E-03	5.93E-04	2.25E-04
2611	458188.6	3767666	0.0020011	2.00E-03	5.99E-04	2.27E-04
2612	458192.5	3767675	0.0020228	2.02E-03	6.06E-04	2.29E-04
2613	458196.4	3767684	0.0020459	2.05E-03	6.13E-04	2.32E-04
2614	458200.3	3767693	0.0020703	2.07E-03	6.20E-04	2.35E-04
2615	458204.1	3767702	0.0020961	2.10E-03	6.28E-04	2.38E-04
2616	458208	3767711	0.0021237	2.12E-03	6.36E-04	2.41E-04
2617	458211.9	3767720	0.0021533	2.15E-03	6.45E-04	2.44E-04
2618	458215.8	3767730	0.0021849	2.18E-03	6.54E-04	2.48E-04
2619	458219.7	3767739	0.0022187	2.22E-03	6.65E-04	2.52E-04
2620	458223.6	3767748	0.0022544	2.25E-03	6.75E-04	2.56E-04
2621	458227.5	3767757	0.0022924	2.29E-03	6.87E-04	2.60E-04
2622	458231.3	3767766	0.0023325	2.33E-03	6.99E-04	2.65E-04
2623	458235.2	3767775	0.0023748	2.37E-03	7.11E-04	2.69E-04
2624	458239.1	3767784	0.0024193	2.42E-03	7.25E-04	2.74E-04
2625	458243	3767794	0.0024661	2.47E-03	7.39E-04	2.80E-04
2626	458246.9	3767803	0.0025158	2.52E-03	7.54E-04	2.85E-04
2627	458250.8	3767812	0.0025682	2.57E-03	7.69E-04	2.91E-04
2628	458254.7	3767821	0.0026234	2.62E-03	7.86E-04	2.98E-04
2629	458258.5	3767830	0.0026814	2.68E-03	8.03E-04	3.04E-04

2630	458262.4	3767839	0.0027419	2.74E-03	8.21E-04	3.11E-04
2631	458266.3	3767848	0.0028051	2.81E-03	8.40E-04	3.18E-04
2632	458270.2	3767858	0.0028707	2.87E-03	8.60E-04	3.26E-04
2633	458274.1	3767867	0.0029389	2.94E-03	8.80E-04	3.33E-04
2634	458278	3767876	0.0030097	3.01E-03	9.01E-04	3.41E-04
2635	458281.9	3767885	0.0030833	3.08E-03	9.23E-04	3.50E-04
2636	458285.7	3767894	0.0031598	3.16E-03	9.46E-04	3.58E-04
2637	458289.6	3767903	0.0032388	3.24E-03	9.70E-04	3.67E-04
2638	458293.5	3767912	0.0033205	3.32E-03	9.95E-04	3.77E-04
2639	458297.4	3767922	0.0034044	3.40E-03	1.02E-03	3.86E-04
2640	458301.3	3767931	0.0034905	3.49E-03	1.05E-03	3.96E-04
2641	458305.2	3767940	0.0035781	3.58E-03	1.07E-03	4.06E-04
2642	458309.1	3767949	0.0036673	3.67E-03	1.10E-03	4.16E-04
2643	458313	3767958	0.0037581	3.76E-03	1.13E-03	4.26E-04
2644	458316.8	3767967	0.003851	3.85E-03	1.15E-03	4.37E-04
2645	458320.7	3767976	0.0039456	3.95E-03	1.18E-03	4.48E-04
2646	458324.6	3767986	0.0040417	4.04E-03	1.21E-03	4.59E-04
2647	458328.5	3767995	0.0041387	4.14E-03	1.24E-03	4.70E-04
2648	458332.4	3768004	0.0042365	4.24E-03	1.27E-03	4.81E-04
2649	458336.3	3768013	0.0043347	4.33E-03	1.30E-03	4.92E-04
2650	458209	3767619	0.0017969	1.80E-03	5.38E-04	2.04E-04
2651	458212.9	3767628	0.0018127	1.81E-03	5.43E-04	2.06E-04
2652	458216.7	3767637	0.0018295	1.83E-03	5.48E-04	2.08E-04
2653	458220.6	3767646	0.0018474	1.85E-03	5.53E-04	2.10E-04
2654	458224.5	3767655	0.0018665	1.87E-03	5.59E-04	2.12E-04
2655	458228.4	3767665	0.0018868	1.89E-03	5.65E-04	2.14E-04
2656	458232.3	3767674	0.0019084	1.91E-03	5.72E-04	2.17E-04
2657	458236.2	3767683	0.0019312	1.93E-03	5.78E-04	2.19E-04
2658	458240.1	3767692	0.0019554	1.96E-03	5.86E-04	2.22E-04
2659	458244	3767701	0.001981	1.98E-03	5.93E-04	2.25E-04
2660	458247.9	3767710	0.0020084	2.01E-03	6.02E-04	2.28E-04
2661	458251.8	3767720	0.0020375	2.04E-03	6.10E-04	2.31E-04
2662	458255.7	3767729	0.0020685	2.07E-03	6.20E-04	2.35E-04
2663	458259.5	3767738	0.0021013	2.10E-03	6.29E-04	2.38E-04
2664	458263.4	3767747	0.002136	2.14E-03	6.40E-04	2.42E-04
2665	458267.3	3767756	0.0021723	2.17E-03	6.51E-04	2.46E-04
2666	458271.2	3767765	0.0022105	2.21E-03	6.62E-04	2.51E-04
2667	458275.1	3767774	0.0022508	2.25E-03	6.74E-04	2.55E-04
2668	458279	3767784	0.0022936	2.29E-03	6.87E-04	2.60E-04
2669	458282.9	3767793	0.0023386	2.34E-03	7.00E-04	2.65E-04
2670	458286.8	3767802	0.002386	2.39E-03	7.15E-04	2.71E-04
2671	458290.7	3767811	0.0024355	2.44E-03	7.29E-04	2.76E-04
2672	458294.6	3767820	0.0024874	2.49E-03	7.45E-04	2.82E-04
2673	458298.4	3767829	0.0025415	2.54E-03	7.61E-04	2.88E-04
2674	458302.3	3767839	0.0025979	2.60E-03	7.78E-04	2.95E-04
2675	458306.2	3767848	0.0026561	2.66E-03	7.96E-04	3.01E-04
2676	458310.1	3767857	0.0027166	2.72E-03	8.14E-04	3.08E-04

2677	458314	3767866	0.0027792	2.78E-03	8.32E-04	3.15E-04
2678	458317.9	3767875	0.0028448	2.84E-03	8.52E-04	3.23E-04
2679	458321.8	3767884	0.0029126	2.91E-03	8.72E-04	3.30E-04
2680	458325.7	3767894	0.0029826	2.98E-03	8.93E-04	3.38E-04
2681	458329.6	3767903	0.0030546	3.05E-03	9.15E-04	3.47E-04
2682	458333.5	3767912	0.0031287	3.13E-03	9.37E-04	3.55E-04
2683	458337.4	3767921	0.0032046	3.20E-03	9.60E-04	3.64E-04
2684	458341.2	3767930	0.003282	3.28E-03	9.83E-04	3.72E-04
2685	458345.1	3767939	0.0033605	3.36E-03	1.01E-03	3.81E-04
2686	458349	3767948	0.0034406	3.44E-03	1.03E-03	3.90E-04
2687	458352.9	3767958	0.0035221	3.52E-03	1.05E-03	4.00E-04
2688	458356.8	3767967	0.0036057	3.61E-03	1.08E-03	4.09E-04
2689	458360.7	3767976	0.0036903	3.69E-03	1.11E-03	4.19E-04
2690	458364.6	3767985	0.0037759	3.78E-03	1.13E-03	4.28E-04
2691	458368.5	3767994	0.0038623	3.86E-03	1.16E-03	4.38E-04
2692	458372.4	3768003	0.0039492	3.95E-03	1.18E-03	4.48E-04
2693	458376.3	3768013	0.0040365	4.04E-03	1.21E-03	4.58E-04
2694	458248	3767616	0.0016929	1.69E-03	5.07E-04	1.92E-04
2695	458251.8	3767625	0.0017084	1.71E-03	5.12E-04	1.94E-04
2696	458255.7	3767634	0.0017248	1.72E-03	5.17E-04	1.96E-04
2697	458259.5	3767643	0.0017422	1.74E-03	5.22E-04	1.98E-04
2698	458263.3	3767652	0.0017605	1.76E-03	5.27E-04	2.00E-04
2699	458267.1	3767661	0.0017799	1.78E-03	5.33E-04	2.02E-04
2700	458271	3767670	0.0018003	1.80E-03	5.39E-04	2.04E-04
2701	458274.8	3767679	0.0018221	1.82E-03	5.46E-04	2.07E-04
2702	458278.6	3767688	0.0018451	1.85E-03	5.53E-04	2.09E-04
2703	458282.4	3767697	0.0018698	1.87E-03	5.60E-04	2.12E-04
2704	458286.3	3767706	0.0018957	1.90E-03	5.68E-04	2.15E-04
2705	458290.1	3767715	0.0019232	1.92E-03	5.76E-04	2.18E-04
2706	458293.9	3767724	0.0019522	1.95E-03	5.85E-04	2.21E-04
2707	458297.7	3767733	0.0019828	1.98E-03	5.94E-04	2.25E-04
2708	458301.6	3767742	0.0020149	2.01E-03	6.04E-04	2.29E-04
2709	458305.4	3767751	0.0020486	2.05E-03	6.14E-04	2.32E-04
2710	458309.2	3767760	0.0020838	2.08E-03	6.24E-04	2.36E-04
2711	458313	3767769	0.0021207	2.12E-03	6.35E-04	2.41E-04
2712	458316.9	3767778	0.0021595	2.16E-03	6.47E-04	2.45E-04
2713	458320.7	3767787	0.0022005	2.20E-03	6.59E-04	2.50E-04
2714	458324.5	3767796	0.0022433	2.24E-03	6.72E-04	2.55E-04
2715	458328.3	3767805	0.0022881	2.29E-03	6.85E-04	2.60E-04
2716	458332.2	3767814	0.0023347	2.33E-03	6.99E-04	2.65E-04
2717	458336	3767823	0.0023833	2.38E-03	7.14E-04	2.70E-04
2718	458339.8	3767832	0.0024338	2.43E-03	7.29E-04	2.76E-04
2719	458343.6	3767841	0.0024859	2.49E-03	7.45E-04	2.82E-04
2720	458347.5	3767850	0.0025396	2.54E-03	7.61E-04	2.88E-04
2721	458351.3	3767859	0.0025951	2.60E-03	7.77E-04	2.94E-04
2722	458355.1	3767868	0.0026527	2.65E-03	7.95E-04	3.01E-04
2723	458358.9	3767877	0.0027124	2.71E-03	8.12E-04	3.08E-04

2724	458362.8	3767886	0.002774	2.77E-03	8.31E-04	3.15E-04
2725	458366.6	3767895	0.0028373	2.84E-03	8.50E-04	3.22E-04
2726	458370.4	3767904	0.0029023	2.90E-03	8.69E-04	3.29E-04
2727	458374.2	3767913	0.0029687	2.97E-03	8.89E-04	3.37E-04
2728	458378.1	3767922	0.0030367	3.04E-03	9.10E-04	3.45E-04
2729	458381.9	3767931	0.0031055	3.11E-03	9.30E-04	3.52E-04
2730	458385.7	3767940	0.0031753	3.18E-03	9.51E-04	3.60E-04
2731	458389.5	3767949	0.0032463	3.25E-03	9.72E-04	3.68E-04
2732	458393.4	3767958	0.0033188	3.32E-03	9.94E-04	3.77E-04
2733	458397.2	3767967	0.0033926	3.39E-03	1.02E-03	3.85E-04
2734	458401	3767976	0.0034672	3.47E-03	1.04E-03	3.93E-04
2735	458404.8	3767985	0.0035425	3.54E-03	1.06E-03	4.02E-04
2736	458408.7	3767994	0.0034345	3.43E-03	1.03E-03	3.90E-04
2737	458412.5	3768003	0.0035035	3.50E-03	1.05E-03	3.97E-04
2738	458416.3	3768012	0.0035741	3.57E-03	1.07E-03	4.05E-04
2739	458287.7	3767615	0.0016024	1.60E-03	4.80E-04	1.82E-04
2740	458291.5	3767624	0.0016178	1.62E-03	4.85E-04	1.84E-04
2741	458295.4	3767633	0.0016342	1.63E-03	4.89E-04	1.85E-04
2742	458299.2	3767642	0.0016515	1.65E-03	4.95E-04	1.87E-04
2743	458303	3767651	0.0016698	1.67E-03	5.00E-04	1.89E-04
2744	458306.8	3767660	0.0016892	1.69E-03	5.06E-04	1.92E-04
2745	458310.7	3767669	0.0017097	1.71E-03	5.12E-04	1.94E-04
2746	458314.5	3767678	0.0017313	1.73E-03	5.19E-04	1.96E-04
2747	458318.3	3767687	0.0017542	1.75E-03	5.25E-04	1.99E-04
2748	458322.2	3767696	0.0017783	1.78E-03	5.33E-04	2.02E-04
2749	458326	3767705	0.0018037	1.80E-03	5.40E-04	2.05E-04
2750	458329.8	3767714	0.0018304	1.83E-03	5.48E-04	2.08E-04
2751	458333.7	3767723	0.0018584	1.86E-03	5.57E-04	2.11E-04
2752	458337.5	3767732	0.0018877	1.89E-03	5.65E-04	2.14E-04
2753	458341.3	3767741	0.0019184	1.92E-03	5.75E-04	2.18E-04
2754	458345.2	3767750	0.0019505	1.95E-03	5.84E-04	2.21E-04
2755	458349	3767759	0.0019844	1.98E-03	5.94E-04	2.25E-04
2756	458352.8	3767768	0.0020201	2.02E-03	6.05E-04	2.29E-04
2757	458356.7	3767777	0.0020572	2.06E-03	6.16E-04	2.33E-04
2758	458360.5	3767786	0.002096	2.10E-03	6.28E-04	2.38E-04
2759	458364.3	3767795	0.0021365	2.14E-03	6.40E-04	2.42E-04
2760	458368.2	3767804	0.0021786	2.18E-03	6.53E-04	2.47E-04
2761	458372	3767813	0.0022222	2.22E-03	6.66E-04	2.52E-04
2762	458375.8	3767822	0.0022671	2.27E-03	6.79E-04	2.57E-04
2763	458379.7	3767831	0.0023136	2.31E-03	6.93E-04	2.62E-04
2764	458383.5	3767840	0.002362	2.36E-03	7.07E-04	2.68E-04
2765	458387.3	3767849	0.0024124	2.41E-03	7.23E-04	2.74E-04
2766	458391.2	3767858	0.0024643	2.46E-03	7.38E-04	2.80E-04
2767	458395	3767867	0.0025178	2.52E-03	7.54E-04	2.86E-04
2768	458398.8	3767876	0.0025728	2.57E-03	7.71E-04	2.92E-04
2769	458402.7	3767885	0.0026293	2.63E-03	7.88E-04	2.98E-04
2770	458406.5	3767894	0.0026873	2.69E-03	8.05E-04	3.05E-04

2771	458410.3	3767904	0.002746	2.75E-03	8.22E-04	3.12E-04
2772	458414.2	3767913	0.002806	2.81E-03	8.40E-04	3.18E-04
2773	458418	3767922	0.0028672	2.87E-03	8.59E-04	3.25E-04
2774	458421.8	3767931	0.0029298	2.93E-03	8.78E-04	3.32E-04
2775	458425.7	3767940	0.0029937	2.99E-03	8.97E-04	3.40E-04
2776	458429.5	3767949	0.0030587	3.06E-03	9.16E-04	3.47E-04
2777	458433.3	3767958	0.0031245	3.12E-03	9.36E-04	3.54E-04
2778	458437.1	3767967	0.0031911	3.19E-03	9.56E-04	3.62E-04
2779	458441	3767976	0.0030934	3.09E-03	9.27E-04	3.51E-04
2780	458444.8	3767985	0.0031592	3.16E-03	9.46E-04	3.58E-04
2781	458448.6	3767994	0.0032201	3.22E-03	9.64E-04	3.65E-04
2782	458452.5	3768003	0.0032836	3.28E-03	9.83E-04	3.73E-04
2783	458456.3	3768012	0.0033505	3.35E-03	1.00E-03	3.80E-04
2784	458327.4	3767614	0.0015225	1.52E-03	4.56E-04	1.73E-04
2785	458331.2	3767623	0.0015379	1.54E-03	4.61E-04	1.74E-04
2786	458335.1	3767632	0.0015542	1.55E-03	4.66E-04	1.76E-04
2787	458338.9	3767641	0.0015714	1.57E-03	4.71E-04	1.78E-04
2788	458342.7	3767650	0.0015895	1.59E-03	4.76E-04	1.80E-04
2789	458346.6	3767659	0.0016087	1.61E-03	4.82E-04	1.83E-04
2790	458350.4	3767668	0.0016288	1.63E-03	4.88E-04	1.85E-04
2791	458354.3	3767677	0.0016501	1.65E-03	4.94E-04	1.87E-04
2792	458358.1	3767686	0.0016724	1.67E-03	5.01E-04	1.90E-04
2793	458361.9	3767695	0.0016959	1.70E-03	5.08E-04	1.92E-04
2794	458365.8	3767704	0.0017207	1.72E-03	5.15E-04	1.95E-04
2795	458369.6	3767713	0.0017465	1.75E-03	5.23E-04	1.98E-04
2796	458373.5	3767722	0.0017735	1.77E-03	5.31E-04	2.01E-04
2797	458377.3	3767731	0.0018017	1.80E-03	5.40E-04	2.04E-04
2798	458381.1	3767740	0.0018311	1.83E-03	5.48E-04	2.08E-04
2799	458385	3767749	0.001862	1.86E-03	5.58E-04	2.11E-04
2800	458388.8	3767758	0.0018945	1.89E-03	5.67E-04	2.15E-04
2801	458392.7	3767767	0.0019284	1.93E-03	5.78E-04	2.19E-04
2802	458396.5	3767776	0.0019637	1.96E-03	5.88E-04	2.23E-04
2803	458400.3	3767785	0.0020004	2.00E-03	5.99E-04	2.27E-04
2804	458404.2	3767794	0.0020386	2.04E-03	6.11E-04	2.31E-04
2805	458408	3767803	0.0020783	2.08E-03	6.22E-04	2.36E-04
2806	458411.8	3767813	0.002119	2.12E-03	6.35E-04	2.40E-04
2807	458415.7	3767822	0.0021611	2.16E-03	6.47E-04	2.45E-04
2808	458419.5	3767831	0.0022046	2.20E-03	6.60E-04	2.50E-04
2809	458423.4	3767840	0.0022496	2.25E-03	6.74E-04	2.55E-04
2810	458427.2	3767849	0.0022963	2.30E-03	6.88E-04	2.61E-04
2811	458431	3767858	0.0023444	2.34E-03	7.02E-04	2.66E-04
2812	458434.9	3767867	0.0023938	2.39E-03	7.17E-04	2.72E-04
2813	458438.7	3767876	0.0024445	2.44E-03	7.32E-04	2.77E-04
2814	458442.6	3767885	0.0024964	2.50E-03	7.48E-04	2.83E-04
2815	458446.4	3767894	0.0025492	2.55E-03	7.64E-04	2.89E-04
2816	458450.2	3767903	0.002603	2.60E-03	7.80E-04	2.95E-04
2817	458454.1	3767912	0.0026579	2.66E-03	7.96E-04	3.02E-04

2818	458457.9	3767921	0.0027138	2.71E-03	8.13E-04	3.08E-04
2819	458461.8	3767930	0.0027711	2.77E-03	8.30E-04	3.14E-04
2820	458465.6	3767939	0.0028292	2.83E-03	8.47E-04	3.21E-04
2821	458469.4	3767948	0.0028882	2.89E-03	8.65E-04	3.28E-04
2822	458473.3	3767957	0.0027942	2.79E-03	8.37E-04	3.17E-04
2823	458477.1	3767966	0.0028471	2.85E-03	8.53E-04	3.23E-04
2824	458480.9	3767975	0.0029009	2.90E-03	8.69E-04	3.29E-04
2825	458484.8	3767984	0.0029561	2.96E-03	8.85E-04	3.35E-04
2826	458488.6	3767993	0.0030187	3.02E-03	9.04E-04	3.42E-04
2827	458492.5	3768002	0.003083	3.08E-03	9.23E-04	3.50E-04
2828	458496.3	3768011	0.0031485	3.15E-03	9.43E-04	3.57E-04
2829	457295	3768023	0.0590318	5.90E-02	1.77E-02	6.70E-03
2830	457292.2	3768040	0.0624378	6.24E-02	1.87E-02	7.08E-03
2831	457292.3	3768050	0.065028	6.50E-02	1.95E-02	7.38E-03
2832	457292.4	3768059	0.0669487	6.69E-02	2.01E-02	7.60E-03
2833	457292.4	3768069	0.0681359	6.81E-02	2.04E-02	7.73E-03
2834	457292.5	3768079	0.0685126	6.85E-02	2.05E-02	7.77E-03
2835	457292.6	3768088	0.0681406	6.81E-02	2.04E-02	7.73E-03
2836	457292.7	3768098	0.0671405	6.71E-02	2.01E-02	7.62E-03
2837	457292.7	3768107	0.0656096	6.56E-02	1.97E-02	7.44E-03
2838	457292.8	3768117	0.0638464	6.38E-02	1.91E-02	7.24E-03
2839	457292.9	3768127	0.0616139	6.16E-02	1.85E-02	6.99E-03
2840	457292.9	3768136	0.0589312	5.89E-02	1.77E-02	6.69E-03
2841	457293	3768146	0.0556473	5.56E-02	1.67E-02	6.31E-03
2842	457293.1	3768155	0.0519816	5.20E-02	1.56E-02	5.90E-03
2843	457293.2	3768165	0.0479795	4.80E-02	1.44E-02	5.44E-03
2844	457293.2	3768175	0.0437968	4.38E-02	1.31E-02	4.97E-03
2845	457293.3	3768184	0.0393879	3.94E-02	1.18E-02	4.47E-03
2846	457293.4	3768194	0.0349101	3.49E-02	1.05E-02	3.96E-03
2847	457293.5	3768204	0.0305577	3.06E-02	9.15E-03	3.47E-03
2848	457293.5	3768213	0.0266503	2.67E-02	7.98E-03	3.02E-03
2849	457293.6	3768223	0.0233271	2.33E-02	6.99E-03	2.65E-03
2850	457293.7	3768232	0.0205888	2.06E-02	6.17E-03	2.34E-03
2851	457285	3768023	0.05365	5.37E-02	1.61E-02	6.09E-03
2852	457290.8	3768009	0.0528382	5.28E-02	1.58E-02	5.99E-03
2853	457282.2	3768040	0.0555226	5.55E-02	1.66E-02	6.30E-03
2854	457282.3	3768050	0.0570692	5.71E-02	1.71E-02	6.47E-03
2855	457282.4	3768059	0.0580736	5.81E-02	1.74E-02	6.59E-03
2856	457282.4	3768069	0.0585498	5.85E-02	1.75E-02	6.64E-03
2857	457282.5	3768079	0.0584587	5.85E-02	1.75E-02	6.63E-03
2858	457282.6	3768088	0.0578332	5.78E-02	1.73E-02	6.56E-03
2859	457282.7	3768098	0.0567391	5.67E-02	1.70E-02	6.44E-03
2860	457282.7	3768107	0.0552349	5.52E-02	1.65E-02	6.27E-03
2861	457282.8	3768117	0.0535146	5.35E-02	1.60E-02	6.07E-03
2862	457282.9	3768127	0.0514239	5.14E-02	1.54E-02	5.83E-03
2863	457282.9	3768136	0.0489976	4.90E-02	1.47E-02	5.56E-03
2864	457283	3768146	0.0461553	4.62E-02	1.38E-02	5.24E-03

2865	457283.1	3768156	0.0430508	4.31E-02	1.29E-02	4.88E-03
2866	457283.2	3768165	0.0397379	3.97E-02	1.19E-02	4.51E-03
2867	457283.2	3768175	0.036326	3.63E-02	1.09E-02	4.12E-03
2868	457283.3	3768184	0.032848	3.28E-02	9.84E-03	3.73E-03
2869	457283.4	3768194	0.0294303	2.94E-02	8.81E-03	3.34E-03
2870	457283.5	3768204	0.0262055	2.62E-02	7.85E-03	2.97E-03
2871	457283.5	3768213	0.0232976	2.33E-02	6.98E-03	2.64E-03
2872	457283.6	3768223	0.0207644	2.08E-02	6.22E-03	2.36E-03
2873	457283.7	3768232	0.0186	1.86E-02	5.57E-03	2.11E-03
2874	457275.8	3768022	0.0487676	4.88E-02	1.46E-02	5.53E-03
2875	457279.4	3768013	0.0487709	4.88E-02	1.46E-02	5.53E-03
2876	457283	3768004	0.0484612	4.85E-02	1.45E-02	5.50E-03
2877	457272.1	3768031	0.0483725	4.84E-02	1.45E-02	5.49E-03
2878	457272.2	3768040	0.0495739	4.96E-02	1.48E-02	5.62E-03
2879	457272.3	3768050	0.0504534	5.05E-02	1.51E-02	5.72E-03
2880	457272.4	3768059	0.0509032	5.09E-02	1.52E-02	5.78E-03
2881	457272.4	3768069	0.0509553	5.10E-02	1.53E-02	5.78E-03
2882	457272.5	3768079	0.0505881	5.06E-02	1.52E-02	5.74E-03
2883	457272.6	3768088	0.0498228	4.98E-02	1.49E-02	5.65E-03
2884	457272.7	3768098	0.0486991	4.87E-02	1.46E-02	5.53E-03
2885	457272.7	3768108	0.0472563	4.73E-02	1.42E-02	5.36E-03
2886	457272.8	3768117	0.045633	4.56E-02	1.37E-02	5.18E-03
2887	457272.9	3768127	0.0437267	4.37E-02	1.31E-02	4.96E-03
2888	457272.9	3768136	0.0415674	4.16E-02	1.25E-02	4.72E-03
2889	457273	3768146	0.0391129	3.91E-02	1.17E-02	4.44E-03
2890	457273.1	3768156	0.036487	3.65E-02	1.09E-02	4.14E-03
2891	457273.2	3768165	0.0337418	3.37E-02	1.01E-02	3.83E-03
2892	457273.2	3768175	0.0309474	3.09E-02	9.27E-03	3.51E-03
2893	457273.3	3768184	0.0281667	2.82E-02	8.44E-03	3.20E-03
2894	457273.4	3768194	0.0254794	2.55E-02	7.63E-03	2.89E-03
2895	457273.5	3768204	0.0229844	2.30E-02	6.88E-03	2.61E-03
2896	457273.5	3768213	0.0207207	2.07E-02	6.21E-03	2.35E-03
2897	457273.6	3768223	0.0187126	1.87E-02	5.60E-03	2.12E-03
2898	457273.7	3768233	0.0169544	1.70E-02	5.08E-03	1.92E-03
2899	457265.6	3768022	0.0443589	4.44E-02	1.33E-02	5.03E-03
2900	457269.1	3768014	0.0447001	4.47E-02	1.34E-02	5.07E-03
2901	457272.6	3768005	0.0447859	4.48E-02	1.34E-02	5.08E-03
2902	457276	3767997	0.0445947	4.46E-02	1.34E-02	5.06E-03
2903	457288	3767984	0.0459866	4.60E-02	1.38E-02	5.22E-03
2904	457262.1	3768031	0.0436911	4.37E-02	1.31E-02	4.96E-03
2905	457262.2	3768040	0.0443981	4.44E-02	1.33E-02	5.04E-03
2906	457262.3	3768050	0.0448395	4.48E-02	1.34E-02	5.09E-03
2907	457262.4	3768060	0.0449586	4.50E-02	1.35E-02	5.10E-03
2908	457262.4	3768069	0.0447749	4.48E-02	1.34E-02	5.08E-03
2909	457262.5	3768079	0.0442648	4.43E-02	1.33E-02	5.02E-03
2910	457262.6	3768088	0.043433	4.34E-02	1.30E-02	4.93E-03
2911	457262.7	3768098	0.0423241	4.23E-02	1.27E-02	4.80E-03

2912	457262.7	3768108	0.0409636	4.10E-02	1.23E-02	4.65E-03
2913	457262.8	3768117	0.0394441	3.94E-02	1.18E-02	4.48E-03
2914	457262.9	3768127	0.037709	3.77E-02	1.13E-02	4.28E-03
2915	457262.9	3768136	0.0357923	3.58E-02	1.07E-02	4.06E-03
2916	457263	3768146	0.0336948	3.37E-02	1.01E-02	3.82E-03
2917	457263.1	3768156	0.0314851	3.15E-02	9.43E-03	3.57E-03
2918	457263.2	3768165	0.029216	2.92E-02	8.75E-03	3.31E-03
2919	457263.2	3768175	0.0269155	2.69E-02	8.06E-03	3.05E-03
2920	457263.3	3768185	0.0246541	2.47E-02	7.38E-03	2.80E-03
2921	457263.4	3768194	0.0224919	2.25E-02	6.74E-03	2.55E-03
2922	457263.5	3768204	0.0204884	2.05E-02	6.14E-03	2.32E-03
2923	457263.5	3768213	0.018661	1.87E-02	5.59E-03	2.12E-03
2924	457263.6	3768223	0.0170191	1.70E-02	5.10E-03	1.93E-03
2925	457263.7	3768233	0.0155576	1.56E-02	4.66E-03	1.77E-03
2926	457255.5	3768022	0.0403762	4.04E-02	1.21E-02	4.58E-03
2927	457262.3	3768006	0.0412713	4.13E-02	1.24E-02	4.68E-03
2928	457269	3767989	0.0412684	4.13E-02	1.24E-02	4.68E-03
2929	457280.7	3767977	0.0425984	4.26E-02	1.28E-02	4.83E-03
2930	457252.2	3768040	0.0399239	3.99E-02	1.20E-02	4.53E-03
2931	457252.3	3768050	0.040071	4.01E-02	1.20E-02	4.55E-03
2932	457252.4	3768060	0.039993	4.00E-02	1.20E-02	4.54E-03
2933	457252.4	3768069	0.039671	3.97E-02	1.19E-02	4.50E-03
2934	457252.5	3768079	0.0390887	3.91E-02	1.17E-02	4.43E-03
2935	457252.6	3768088	0.0382375	3.82E-02	1.15E-02	4.34E-03
2936	457252.7	3768098	0.0371717	3.72E-02	1.11E-02	4.22E-03
2937	457252.7	3768108	0.035906	3.59E-02	1.08E-02	4.07E-03
2938	457252.8	3768117	0.0344946	3.45E-02	1.03E-02	3.91E-03
2939	457252.9	3768127	0.0329248	3.29E-02	9.86E-03	3.74E-03
2940	457252.9	3768137	0.0312283	3.12E-02	9.35E-03	3.54E-03
2941	457253	3768146	0.0294418	2.94E-02	8.82E-03	3.34E-03
2942	457253.1	3768156	0.027579	2.76E-02	8.26E-03	3.13E-03
2943	457253.2	3768165	0.0256834	2.57E-02	7.69E-03	2.91E-03
2944	457253.2	3768175	0.0237732	2.38E-02	7.12E-03	2.70E-03
2945	457253.3	3768185	0.0219096	2.19E-02	6.56E-03	2.49E-03
2946	457253.4	3768194	0.0201362	2.01E-02	6.03E-03	2.28E-03
2947	457253.5	3768204	0.0184827	1.85E-02	5.54E-03	2.10E-03
2948	457253.5	3768213	0.0169647	1.70E-02	5.08E-03	1.92E-03
2949	457253.6	3768223	0.0155902	1.56E-02	4.67E-03	1.77E-03
2950	457253.7	3768233	0.0143566	1.44E-02	4.30E-03	1.63E-03
2951	457245.4	3768023	0.0368164	3.68E-02	1.10E-02	4.18E-03
2952	457252.1	3768006	0.0379967	3.80E-02	1.14E-02	4.31E-03
2953	457258.7	3767990	0.0384174	3.84E-02	1.15E-02	4.36E-03
2954	457273.4	3767971	0.0396313	3.96E-02	1.19E-02	4.50E-03
2955	457289.6	3767964	0.0421656	4.22E-02	1.26E-02	4.78E-03
2956	457242.2	3768040	0.0360536	3.61E-02	1.08E-02	4.09E-03
2957	457242.3	3768050	0.0360086	3.60E-02	1.08E-02	4.09E-03
2958	457242.4	3768060	0.0358052	3.58E-02	1.07E-02	4.06E-03

2959	457242.4	3768069	0.0354052	3.54E-02	1.06E-02	4.02E-03
2960	457242.5	3768079	0.0347901	3.48E-02	1.04E-02	3.95E-03
2961	457242.6	3768089	0.0339535	3.40E-02	1.02E-02	3.85E-03
2962	457242.7	3768098	0.0329398	3.29E-02	9.87E-03	3.74E-03
2963	457242.7	3768108	0.0317711	3.18E-02	9.52E-03	3.60E-03
2964	457242.8	3768117	0.030478	3.05E-02	9.13E-03	3.46E-03
2965	457242.9	3768127	0.029069	2.91E-02	8.71E-03	3.30E-03
2966	457242.9	3768137	0.027568	2.76E-02	8.26E-03	3.13E-03
2967	457243	3768146	0.0260371	2.60E-02	7.80E-03	2.95E-03
2968	457243.1	3768156	0.0244555	2.45E-02	7.32E-03	2.77E-03
2969	457243.2	3768165	0.022859	2.29E-02	6.85E-03	2.59E-03
2970	457243.2	3768175	0.0212533	2.13E-02	6.37E-03	2.41E-03
2971	457243.3	3768185	0.0196955	1.97E-02	5.90E-03	2.23E-03
2972	457243.4	3768194	0.0182118	1.82E-02	5.45E-03	2.07E-03
2973	457243.5	3768204	0.0168217	1.68E-02	5.04E-03	1.91E-03
2974	457243.5	3768214	0.015539	1.55E-02	4.65E-03	1.76E-03
2975	457243.6	3768223	0.0143686	1.44E-02	4.30E-03	1.63E-03
2976	457243.7	3768233	0.0133141	1.33E-02	3.99E-03	1.51E-03
2977	457235.4	3768023	0.0336514	3.37E-02	1.01E-02	3.82E-03
2978	457241.9	3768007	0.0349886	3.50E-02	1.05E-02	3.97E-03
2979	457248.4	3767991	0.0356966	3.57E-02	1.07E-02	4.05E-03
2980	457254.9	3767975	0.0357883	3.58E-02	1.07E-02	4.06E-03
2981	457266.2	3767964	0.0369961	3.70E-02	1.11E-02	4.20E-03
2982	457282.1	3767957	0.0393605	3.94E-02	1.18E-02	4.47E-03
2983	457232.2	3768041	0.0327256	3.27E-02	9.80E-03	3.71E-03
2984	457232.3	3768050	0.0325518	3.26E-02	9.75E-03	3.69E-03
2985	457232.4	3768060	0.0322437	3.22E-02	9.66E-03	3.66E-03
2986	457232.4	3768069	0.0317777	3.18E-02	9.52E-03	3.61E-03
2987	457232.5	3768079	0.0311463	3.11E-02	9.33E-03	3.53E-03
2988	457232.6	3768089	0.0303483	3.03E-02	9.09E-03	3.44E-03
2989	457232.7	3768098	0.0294119	2.94E-02	8.81E-03	3.34E-03
2990	457232.7	3768108	0.0283512	2.84E-02	8.49E-03	3.22E-03
2991	457232.8	3768117	0.0271829	2.72E-02	8.14E-03	3.08E-03
2992	457232.9	3768127	0.0259255	2.59E-02	7.77E-03	2.94E-03
2993	457232.9	3768137	0.0246047	2.46E-02	7.37E-03	2.79E-03
2994	457233	3768146	0.0232762	2.33E-02	6.97E-03	2.64E-03
2995	457233.1	3768156	0.0219161	2.19E-02	6.56E-03	2.49E-03
2996	457233.2	3768166	0.020554	2.06E-02	6.16E-03	2.33E-03
2997	457233.2	3768175	0.0191882	1.92E-02	5.75E-03	2.18E-03
2998	457233.3	3768185	0.0178656	1.79E-02	5.35E-03	2.03E-03
2999	457233.4	3768194	0.0166073	1.66E-02	4.97E-03	1.88E-03
3000	457233.5	3768204	0.0154238	1.54E-02	4.62E-03	1.75E-03
3001	457233.5	3768214	0.0143275	1.43E-02	4.29E-03	1.63E-03
3002	457233.6	3768223	0.0133177	1.33E-02	3.99E-03	1.51E-03
3003	457233.7	3768233	0.0124024	1.24E-02	3.71E-03	1.41E-03
3004	457225.8	3768022	0.0309389	3.09E-02	9.27E-03	3.51E-03
3005	457229.4	3768013	0.031767	3.18E-02	9.51E-03	3.60E-03

3006	457233	3768004	0.0324379	3.24E-02	9.72E-03	3.68E-03
3007	457236.6	3767995	0.0329557	3.30E-02	9.87E-03	3.74E-03
3008	457240.2	3767986	0.0333171	3.33E-02	9.98E-03	3.78E-03
3009	457243.9	3767978	0.0334759	3.35E-02	1.00E-02	3.80E-03
3010	457247.5	3767969	0.0334985	3.35E-02	1.00E-02	3.80E-03
3011	457260	3767956	0.0347784	3.48E-02	1.04E-02	3.95E-03
3012	457268.8	3767952	0.036061	3.61E-02	1.08E-02	4.09E-03
3013	457277.7	3767949	0.0371842	3.72E-02	1.11E-02	4.22E-03
3014	457286.5	3767945	0.0381636	3.82E-02	1.14E-02	4.33E-03
3015	457222.1	3768031	0.0299634	3.00E-02	8.97E-03	3.40E-03
3016	457222.2	3768041	0.0298264	2.98E-02	8.93E-03	3.38E-03
3017	457222.3	3768050	0.0295661	2.96E-02	8.86E-03	3.35E-03
3018	457222.4	3768060	0.0291872	2.92E-02	8.74E-03	3.31E-03
3019	457222.4	3768069	0.0286808	2.87E-02	8.59E-03	3.25E-03
3020	457222.5	3768079	0.0280469	2.80E-02	8.40E-03	3.18E-03
3021	457222.6	3768089	0.0273019	2.73E-02	8.18E-03	3.10E-03
3022	457222.7	3768098	0.026445	2.64E-02	7.92E-03	3.00E-03
3023	457222.7	3768108	0.0254874	2.55E-02	7.63E-03	2.89E-03
3024	457222.8	3768118	0.0244359	2.44E-02	7.32E-03	2.77E-03
3025	457222.9	3768127	0.0233184	2.33E-02	6.98E-03	2.65E-03
3026	457222.9	3768137	0.0221558	2.22E-02	6.64E-03	2.51E-03
3027	457223	3768146	0.0209944	2.10E-02	6.29E-03	2.38E-03
3028	457223.1	3768156	0.0198132	1.98E-02	5.93E-03	2.25E-03
3029	457223.2	3768166	0.0186362	1.86E-02	5.58E-03	2.11E-03
3030	457223.2	3768175	0.017462	1.75E-02	5.23E-03	1.98E-03
3031	457223.3	3768185	0.016327	1.63E-02	4.89E-03	1.85E-03
3032	457223.4	3768194	0.0152475	1.52E-02	4.57E-03	1.73E-03
3033	457223.5	3768204	0.0142283	1.42E-02	4.26E-03	1.61E-03
3034	457223.5	3768214	0.0132789	1.33E-02	3.98E-03	1.51E-03
3035	457223.6	3768223	0.0123999	1.24E-02	3.71E-03	1.41E-03
3036	457223.7	3768233	0.0115976	1.16E-02	3.47E-03	1.32E-03
3037	457200.8	3768022	0.0251761	2.52E-02	7.54E-03	2.86E-03
3038	457204.4	3768013	0.0259857	2.60E-02	7.78E-03	2.95E-03
3039	457208	3768004	0.0266839	2.67E-02	7.99E-03	3.03E-03
3040	457211.6	3767996	0.0272853	2.73E-02	8.17E-03	3.10E-03
3041	457215.2	3767987	0.0277905	2.78E-02	8.32E-03	3.15E-03
3042	457218.9	3767978	0.0282051	2.82E-02	8.45E-03	3.20E-03
3043	457222.5	3767969	0.0285019	2.85E-02	8.54E-03	3.23E-03
3044	457226.1	3767960	0.0286837	2.87E-02	8.59E-03	3.25E-03
3045	457229.7	3767951	0.0287671	2.88E-02	8.62E-03	3.26E-03
3046	457242.2	3767939	0.0298812	2.99E-02	8.95E-03	3.39E-03
3047	457251.1	3767935	0.0309436	3.09E-02	9.27E-03	3.51E-03
3048	457259.9	3767931	0.0319219	3.19E-02	9.56E-03	3.62E-03
3049	457268.8	3767927	0.0328018	3.28E-02	9.82E-03	3.72E-03
3050	457277.6	3767924	0.0335873	3.36E-02	1.01E-02	3.81E-03
3051	457286.5	3767920	0.0342669	3.43E-02	1.03E-02	3.89E-03
3052	457197.1	3768031	0.0242798	2.43E-02	7.27E-03	2.75E-03

3053	457197.2	3768041	0.0240132	2.40E-02	7.19E-03	2.72E-03
3054	457197.3	3768050	0.0236612	2.37E-02	7.09E-03	2.68E-03
3055	457197.4	3768060	0.0232295	2.32E-02	6.96E-03	2.64E-03
3056	457197.4	3768070	0.022716	2.27E-02	6.80E-03	2.58E-03
3057	457197.5	3768079	0.0221372	2.21E-02	6.63E-03	2.51E-03
3058	457197.6	3768089	0.0215103	2.15E-02	6.44E-03	2.44E-03
3059	457197.7	3768098	0.0208183	2.08E-02	6.24E-03	2.36E-03
3060	457197.7	3768108	0.0200685	2.01E-02	6.01E-03	2.28E-03
3061	457197.8	3768118	0.0192599	1.93E-02	5.77E-03	2.19E-03
3062	457197.9	3768127	0.0184191	1.84E-02	5.52E-03	2.09E-03
3063	457198	3768137	0.0175611	1.76E-02	5.26E-03	1.99E-03
3064	457198	3768147	0.0167028	1.67E-02	5.00E-03	1.90E-03
3065	457198.1	3768156	0.0158458	1.58E-02	4.75E-03	1.80E-03
3066	457198.2	3768166	0.0149994	1.50E-02	4.49E-03	1.70E-03
3067	457198.2	3768175	0.0141689	1.42E-02	4.24E-03	1.61E-03
3068	457198.3	3768185	0.0133661	1.34E-02	4.00E-03	1.52E-03
3069	457198.4	3768195	0.0125986	1.26E-02	3.77E-03	1.43E-03
3070	457198.5	3768204	0.0118679	1.19E-02	3.55E-03	1.35E-03
3071	457198.5	3768214	0.0111795	1.12E-02	3.35E-03	1.27E-03
3072	457198.6	3768224	0.0105348	1.05E-02	3.16E-03	1.20E-03
3073	457198.7	3768233	0.0099367	9.94E-03	2.98E-03	1.13E-03
3074	457175.8	3768022	0.0207936	2.08E-02	6.23E-03	2.36E-03
3075	457179.4	3768014	0.0215347	2.15E-02	6.45E-03	2.44E-03
3076	457183	3768005	0.0222042	2.22E-02	6.65E-03	2.52E-03
3077	457186.6	3767996	0.0228114	2.28E-02	6.83E-03	2.59E-03
3078	457190.2	3767987	0.0233511	2.34E-02	6.99E-03	2.65E-03
3079	457193.9	3767978	0.0238413	2.38E-02	7.14E-03	2.70E-03
3080	457197.5	3767969	0.0242571	2.43E-02	7.27E-03	2.75E-03
3081	457201.1	3767960	0.0245961	2.46E-02	7.37E-03	2.79E-03
3082	457204.7	3767951	0.0248549	2.49E-02	7.44E-03	2.82E-03
3083	457208.3	3767942	0.025036	2.50E-02	7.50E-03	2.84E-03
3084	457212	3767934	0.0251427	2.51E-02	7.53E-03	2.85E-03
3085	457224.4	3767921	0.0261082	2.61E-02	7.82E-03	2.96E-03
3086	457233.3	3767917	0.0270002	2.70E-02	8.09E-03	3.06E-03
3087	457242.2	3767914	0.027843	2.78E-02	8.34E-03	3.16E-03
3088	457251	3767910	0.0286259	2.86E-02	8.57E-03	3.25E-03
3089	457259.9	3767906	0.029339	2.93E-02	8.79E-03	3.33E-03
3090	457268.7	3767902	0.0299757	3.00E-02	8.98E-03	3.40E-03
3091	457277.6	3767899	0.0305288	3.05E-02	9.14E-03	3.46E-03
3092	457286.5	3767895	0.0309935	3.10E-02	9.28E-03	3.52E-03
3093	457172.1	3768031	0.0200106	2.00E-02	5.99E-03	2.27E-03
3094	457172.2	3768041	0.0197141	1.97E-02	5.90E-03	2.24E-03
3095	457172.3	3768051	0.019359	1.94E-02	5.80E-03	2.20E-03
3096	457172.4	3768060	0.0189502	1.90E-02	5.68E-03	2.15E-03
3097	457172.4	3768070	0.0184913	1.85E-02	5.54E-03	2.10E-03
3098	457172.5	3768079	0.0179916	1.80E-02	5.39E-03	2.04E-03
3099	457172.6	3768089	0.0174618	1.75E-02	5.23E-03	1.98E-03

3100	457172.7	3768099	0.0168954	1.69E-02	5.06E-03	1.92E-03
3101	457172.7	3768108	0.0162978	1.63E-02	4.88E-03	1.85E-03
3102	457172.8	3768118	0.0156727	1.57E-02	4.69E-03	1.78E-03
3103	457172.9	3768128	0.0150308	1.50E-02	4.50E-03	1.71E-03
3104	457173	3768137	0.0143821	1.44E-02	4.31E-03	1.63E-03
3105	457173	3768147	0.0137284	1.37E-02	4.11E-03	1.56E-03
3106	457173.1	3768156	0.0130804	1.31E-02	3.92E-03	1.48E-03
3107	457173.2	3768166	0.0124452	1.24E-02	3.73E-03	1.41E-03
3108	457173.2	3768176	0.0118316	1.18E-02	3.54E-03	1.34E-03
3109	457173.3	3768185	0.0112386	1.12E-02	3.37E-03	1.28E-03
3110	457173.4	3768195	0.0106673	1.07E-02	3.20E-03	1.21E-03
3111	457173.5	3768204	0.0101191	1.01E-02	3.03E-03	1.15E-03
3112	457173.5	3768214	0.0095996	9.60E-03	2.88E-03	1.09E-03
3113	457173.6	3768224	0.0091079	9.11E-03	2.73E-03	1.03E-03
3114	457173.7	3768233	0.0086452	8.65E-03	2.59E-03	9.81E-04
3115	457150.8	3768023	0.0173981	1.74E-02	5.21E-03	1.97E-03
3116	457154.4	3768014	0.0180388	1.80E-02	5.40E-03	2.05E-03
3117	457158	3768005	0.0186589	1.87E-02	5.59E-03	2.12E-03
3118	457161.6	3767996	0.0192412	1.92E-02	5.76E-03	2.18E-03
3119	457165.2	3767987	0.0197784	1.98E-02	5.92E-03	2.24E-03
3120	457168.9	3767978	0.0202771	2.03E-02	6.07E-03	2.30E-03
3121	457172.5	3767969	0.0207263	2.07E-02	6.21E-03	2.35E-03
3122	457176.1	3767960	0.0211216	2.11E-02	6.33E-03	2.40E-03
3123	457179.7	3767951	0.0214606	2.15E-02	6.43E-03	2.43E-03
3124	457183.3	3767943	0.0217416	2.17E-02	6.51E-03	2.47E-03
3125	457187	3767934	0.0219642	2.20E-02	6.58E-03	2.49E-03
3126	457190.6	3767925	0.0221272	2.21E-02	6.63E-03	2.51E-03
3127	457194.2	3767916	0.0222257	2.22E-02	6.66E-03	2.52E-03
3128	457206.7	3767903	0.023074	2.31E-02	6.91E-03	2.62E-03
3129	457215.5	3767900	0.0238386	2.38E-02	7.14E-03	2.70E-03
3130	457224.4	3767896	0.0245649	2.46E-02	7.36E-03	2.79E-03
3131	457233.3	3767892	0.0252489	2.52E-02	7.56E-03	2.86E-03
3132	457242.1	3767889	0.0258885	2.59E-02	7.75E-03	2.94E-03
3133	457251	3767885	0.0264705	2.65E-02	7.93E-03	3.00E-03
3134	457259.8	3767881	0.0269907	2.70E-02	8.08E-03	3.06E-03
3135	457268.7	3767877	0.027446	2.74E-02	8.22E-03	3.11E-03
3136	457277.6	3767874	0.0278319	2.78E-02	8.34E-03	3.16E-03
3137	457286.4	3767870	0.0281459	2.81E-02	8.43E-03	3.19E-03
3138	457147.1	3768032	0.0167459	1.67E-02	5.02E-03	1.90E-03
3139	457147.2	3768041	0.0164649	1.65E-02	4.93E-03	1.87E-03
3140	457147.3	3768051	0.01614	1.61E-02	4.83E-03	1.83E-03
3141	457147.4	3768060	0.0157744	1.58E-02	4.72E-03	1.79E-03
3142	457147.4	3768070	0.0153765	1.54E-02	4.61E-03	1.74E-03
3143	457147.5	3768080	0.0149512	1.50E-02	4.48E-03	1.70E-03
3144	457147.6	3768089	0.0145023	1.45E-02	4.34E-03	1.65E-03
3145	457147.7	3768099	0.0140322	1.40E-02	4.20E-03	1.59E-03
3146	457147.7	3768108	0.01355	1.36E-02	4.06E-03	1.54E-03

3147	457147.8	3768118	0.0130644	1.31E-02	3.91E-03	1.48E-03
3148	457147.9	3768128	0.0125707	1.26E-02	3.77E-03	1.43E-03
3149	457148	3768137	0.0120725	1.21E-02	3.62E-03	1.37E-03
3150	457148	3768147	0.0115667	1.16E-02	3.46E-03	1.31E-03
3151	457148.1	3768157	0.0110668	1.11E-02	3.31E-03	1.26E-03
3152	457148.2	3768166	0.0105769	1.06E-02	3.17E-03	1.20E-03
3153	457148.2	3768176	0.0100993	1.01E-02	3.02E-03	1.15E-03
3154	457148.3	3768185	0.0096369	9.64E-03	2.89E-03	1.09E-03
3155	457148.4	3768195	0.0091911	9.19E-03	2.75E-03	1.04E-03
3156	457148.5	3768205	0.0087687	8.77E-03	2.63E-03	9.95E-04
3157	457148.5	3768214	0.0083661	8.37E-03	2.51E-03	9.49E-04
3158	457148.6	3768224	0.0079827	7.98E-03	2.39E-03	9.06E-04
3159	457148.7	3768234	0.0076168	7.62E-03	2.28E-03	8.64E-04
3160	457125.8	3768023	0.0147842	1.48E-02	4.43E-03	1.68E-03
3161	457129.4	3768014	0.0153302	1.53E-02	4.59E-03	1.74E-03
3162	457133	3768005	0.0158717	1.59E-02	4.75E-03	1.80E-03
3163	457136.6	3767996	0.0163946	1.64E-02	4.91E-03	1.86E-03
3164	457140.2	3767987	0.016894	1.69E-02	5.06E-03	1.92E-03
3165	457143.9	3767978	0.0173659	1.74E-02	5.20E-03	1.97E-03
3166	457147.5	3767969	0.0178056	1.78E-02	5.33E-03	2.02E-03
3167	457151.1	3767961	0.0182097	1.82E-02	5.45E-03	2.07E-03
3168	457154.7	3767952	0.018575	1.86E-02	5.56E-03	2.11E-03
3169	457158.3	3767943	0.0188991	1.89E-02	5.66E-03	2.14E-03
3170	457162	3767934	0.0191802	1.92E-02	5.74E-03	2.18E-03
3171	457165.6	3767925	0.019415	1.94E-02	5.82E-03	2.20E-03
3172	457169.2	3767916	0.0195909	1.96E-02	5.87E-03	2.22E-03
3173	457172.8	3767907	0.0197223	1.97E-02	5.91E-03	2.24E-03
3174	457176.4	3767898	0.0198106	1.98E-02	5.93E-03	2.25E-03
3175	457188.9	3767886	0.0205502	2.06E-02	6.16E-03	2.33E-03
3176	457197.8	3767882	0.0212089	2.12E-02	6.35E-03	2.41E-03
3177	457206.6	3767878	0.0218396	2.18E-02	6.54E-03	2.48E-03
3178	457215.5	3767875	0.0224422	2.24E-02	6.72E-03	2.55E-03
3179	457224.4	3767871	0.0230169	2.30E-02	6.89E-03	2.61E-03
3180	457233.2	3767867	0.0235568	2.36E-02	7.06E-03	2.67E-03
3181	457242.1	3767864	0.0240452	2.40E-02	7.20E-03	2.73E-03
3182	457250.9	3767860	0.0244728	2.45E-02	7.33E-03	2.78E-03
3183	457259.8	3767856	0.0248524	2.49E-02	7.44E-03	2.82E-03
3184	457268.7	3767852	0.0251821	2.52E-02	7.54E-03	2.86E-03
3185	457277.5	3767849	0.0254475	2.54E-02	7.62E-03	2.89E-03
3186	457286.4	3767845	0.0256532	2.57E-02	7.68E-03	2.91E-03
3187	457122.1	3768032	0.0142308	1.42E-02	4.26E-03	1.61E-03
3188	457122.2	3768041	0.0139687	1.40E-02	4.18E-03	1.58E-03
3189	457122.3	3768051	0.0136766	1.37E-02	4.10E-03	1.55E-03
3190	457122.4	3768061	0.0133572	1.34E-02	4.00E-03	1.52E-03
3191	457122.4	3768070	0.0130168	1.30E-02	3.90E-03	1.48E-03
3192	457122.5	3768080	0.0126589	1.27E-02	3.79E-03	1.44E-03
3193	457122.6	3768089	0.0122874	1.23E-02	3.68E-03	1.39E-03

3194	457122.7	3768099	0.0119026	1.19E-02	3.57E-03	1.35E-03
3195	457122.7	3768109	0.0115119	1.15E-02	3.45E-03	1.31E-03
3196	457122.8	3768118	0.0111206	1.11E-02	3.33E-03	1.26E-03
3197	457122.9	3768128	0.0107251	1.07E-02	3.21E-03	1.22E-03
3198	457123	3768138	0.0103286	1.03E-02	3.09E-03	1.17E-03
3199	457123	3768147	0.0099277	9.93E-03	2.97E-03	1.13E-03
3200	457123.1	3768157	0.0095326	9.53E-03	2.86E-03	1.08E-03
3201	457123.2	3768166	0.0091446	9.14E-03	2.74E-03	1.04E-03
3202	457123.2	3768176	0.0087662	8.77E-03	2.63E-03	9.95E-04
3203	457123.3	3768186	0.0083998	8.40E-03	2.52E-03	9.53E-04
3204	457123.4	3768195	0.0080451	8.05E-03	2.41E-03	9.13E-04
3205	457123.5	3768205	0.0077077	7.71E-03	2.31E-03	8.74E-04
3206	457123.5	3768214	0.0073846	7.38E-03	2.21E-03	8.38E-04
3207	457123.6	3768224	0.0070751	7.08E-03	2.12E-03	8.03E-04
3208	457123.7	3768234	0.0067787	6.78E-03	2.03E-03	7.69E-04
3209	457100.8	3768023	0.0127123	1.27E-02	3.81E-03	1.44E-03
3210	457104.4	3768014	0.0131847	1.32E-02	3.95E-03	1.50E-03
3211	457108	3768005	0.0136536	1.37E-02	4.09E-03	1.55E-03
3212	457111.6	3767996	0.014113	1.41E-02	4.23E-03	1.60E-03
3213	457115.2	3767987	0.0145592	1.46E-02	4.36E-03	1.65E-03
3214	457118.9	3767979	0.0149891	1.50E-02	4.49E-03	1.70E-03
3215	457122.5	3767970	0.015399	1.54E-02	4.61E-03	1.75E-03
3216	457126.1	3767961	0.0157859	1.58E-02	4.73E-03	1.79E-03
3217	457129.7	3767952	0.0161429	1.61E-02	4.84E-03	1.83E-03
3218	457133.3	3767943	0.0164694	1.65E-02	4.93E-03	1.87E-03
3219	457137	3767934	0.0167682	1.68E-02	5.02E-03	1.90E-03
3220	457140.6	3767925	0.017037	1.70E-02	5.10E-03	1.93E-03
3221	457144.2	3767916	0.0172678	1.73E-02	5.17E-03	1.96E-03
3222	457147.8	3767907	0.0174603	1.75E-02	5.23E-03	1.98E-03
3223	457151.4	3767899	0.0176141	1.76E-02	5.28E-03	2.00E-03
3224	457155.1	3767890	0.0177435	1.77E-02	5.31E-03	2.01E-03
3225	457158.7	3767881	0.0178426	1.78E-02	5.34E-03	2.02E-03
3226	457171.2	3767868	0.0184836	1.85E-02	5.54E-03	2.10E-03
3227	457180	3767864	0.0190463	1.90E-02	5.70E-03	2.16E-03
3228	457188.9	3767861	0.0195925	1.96E-02	5.87E-03	2.22E-03
3229	457197.7	3767857	0.0201178	2.01E-02	6.03E-03	2.28E-03
3230	457206.6	3767853	0.0206177	2.06E-02	6.18E-03	2.34E-03
3231	457215.5	3767850	0.021093	2.11E-02	6.32E-03	2.39E-03
3232	457224.3	3767846	0.0215343	2.15E-02	6.45E-03	2.44E-03
3233	457233.2	3767842	0.0219333	2.19E-02	6.57E-03	2.49E-03
3234	457242	3767839	0.0222926	2.23E-02	6.68E-03	2.53E-03
3235	457250.9	3767835	0.0226223	2.26E-02	6.78E-03	2.57E-03
3236	457259.8	3767831	0.0229052	2.29E-02	6.86E-03	2.60E-03
3237	457268.6	3767827	0.0231365	2.31E-02	6.93E-03	2.62E-03
3238	457277.5	3767824	0.0233126	2.33E-02	6.98E-03	2.64E-03
3239	457286.3	3767820	0.0234435	2.34E-02	7.02E-03	2.66E-03
3240	457097.1	3768032	0.0122356	1.22E-02	3.66E-03	1.39E-03

3241	457097.2	3768042	0.0119927	1.20E-02	3.59E-03	1.36E-03
3242	457097.3	3768051	0.0117357	1.17E-02	3.52E-03	1.33E-03
3243	457097.4	3768061	0.0114661	1.15E-02	3.43E-03	1.30E-03
3244	457097.4	3768070	0.0111819	1.12E-02	3.35E-03	1.27E-03
3245	457097.5	3768080	0.0108846	1.09E-02	3.26E-03	1.23E-03
3246	457097.6	3768090	0.0105737	1.06E-02	3.17E-03	1.20E-03
3247	457097.7	3768099	0.010256	1.03E-02	3.07E-03	1.16E-03
3248	457097.7	3768109	0.0099337	9.93E-03	2.98E-03	1.13E-03
3249	457097.8	3768118	0.0096093	9.61E-03	2.88E-03	1.09E-03
3250	457097.9	3768128	0.0092837	9.28E-03	2.78E-03	1.05E-03
3251	457098	3768138	0.0089598	8.96E-03	2.68E-03	1.02E-03
3252	457098	3768147	0.0086403	8.64E-03	2.59E-03	9.80E-04
3253	457098.1	3768157	0.008325	8.33E-03	2.49E-03	9.45E-04
3254	457098.2	3768167	0.0080146	8.01E-03	2.40E-03	9.09E-04
3255	457098.2	3768176	0.0077084	7.71E-03	2.31E-03	8.75E-04
3256	457098.3	3768186	0.0074112	7.41E-03	2.22E-03	8.41E-04
3257	457098.4	3768195	0.0071233	7.12E-03	2.13E-03	8.08E-04
3258	457098.5	3768205	0.0068485	6.85E-03	2.05E-03	7.77E-04
3259	457098.5	3768215	0.0065837	6.58E-03	1.97E-03	7.47E-04
3260	457098.6	3768224	0.0063293	6.33E-03	1.90E-03	7.18E-04
3261	457098.7	3768234	0.0060843	6.08E-03	1.82E-03	6.90E-04
3262	457075.8	3768023	0.0110524	1.11E-02	3.31E-03	1.25E-03
3263	457079.4	3768014	0.0114587	1.15E-02	3.43E-03	1.30E-03
3264	457083	3768005	0.0118633	1.19E-02	3.55E-03	1.35E-03
3265	457086.6	3767997	0.0122637	1.23E-02	3.67E-03	1.39E-03
3266	457090.2	3767988	0.0126571	1.27E-02	3.79E-03	1.44E-03
3267	457093.9	3767979	0.0130412	1.30E-02	3.91E-03	1.48E-03
3268	457097.5	3767970	0.0134135	1.34E-02	4.02E-03	1.52E-03
3269	457101.1	3767961	0.0137713	1.38E-02	4.12E-03	1.56E-03
3270	457104.7	3767952	0.0141076	1.41E-02	4.23E-03	1.60E-03
3271	457108.3	3767943	0.0144187	1.44E-02	4.32E-03	1.64E-03
3272	457112	3767934	0.0147079	1.47E-02	4.41E-03	1.67E-03
3273	457115.6	3767925	0.014975	1.50E-02	4.49E-03	1.70E-03
3274	457119.2	3767916	0.015228	1.52E-02	4.56E-03	1.73E-03
3275	457122.8	3767908	0.0154569	1.55E-02	4.63E-03	1.75E-03
3276	457126.4	3767899	0.0156569	1.57E-02	4.69E-03	1.78E-03
3277	457130.1	3767890	0.0158298	1.58E-02	4.74E-03	1.80E-03
3278	457133.7	3767881	0.0159759	1.60E-02	4.79E-03	1.81E-03
3279	457137.3	3767872	0.0160946	1.61E-02	4.82E-03	1.83E-03
3280	457140.9	3767863	0.0161862	1.62E-02	4.85E-03	1.84E-03
3281	457153.4	3767851	0.01675	1.67E-02	5.02E-03	1.90E-03
3282	457162.3	3767847	0.0172405	1.72E-02	5.16E-03	1.96E-03
3283	457171.1	3767843	0.0177189	1.77E-02	5.31E-03	2.01E-03
3284	457180	3767839	0.0181814	1.82E-02	5.45E-03	2.06E-03
3285	457188.8	3767836	0.0186253	1.86E-02	5.58E-03	2.11E-03
3286	457197.7	3767832	0.019047	1.90E-02	5.70E-03	2.16E-03
3287	457206.6	3767828	0.0194434	1.94E-02	5.82E-03	2.21E-03

3288	457215.4	3767825	0.0198106	1.98E-02	5.93E-03	2.25E-03
3289	457224.3	3767821	0.0201471	2.01E-02	6.03E-03	2.29E-03
3290	457233.1	3767817	0.0204497	2.04E-02	6.12E-03	2.32E-03
3291	457242	3767814	0.0207174	2.07E-02	6.21E-03	2.35E-03
3292	457250.9	3767810	0.0209473	2.09E-02	6.27E-03	2.38E-03
3293	457259.7	3767806	0.021134	2.11E-02	6.33E-03	2.40E-03
3294	457268.6	3767802	0.0212835	2.13E-02	6.37E-03	2.41E-03
3295	457277.4	3767799	0.0214073	2.14E-02	6.41E-03	2.43E-03
3296	457286.3	3767795	0.021492	2.15E-02	6.44E-03	2.44E-03
3297	457072.1	3768032	0.0106464	1.06E-02	3.19E-03	1.21E-03
3298	457072.2	3768042	0.0104287	1.04E-02	3.12E-03	1.18E-03
3299	457072.3	3768051	0.0102039	1.02E-02	3.06E-03	1.16E-03
3300	457072.4	3768061	0.0099725	9.97E-03	2.99E-03	1.13E-03
3301	457072.4	3768071	0.009731	9.73E-03	2.91E-03	1.10E-03
3302	457072.5	3768080	0.0094797	9.48E-03	2.84E-03	1.08E-03
3303	457072.6	3768090	0.0092183	9.22E-03	2.76E-03	1.05E-03
3304	457072.7	3768099	0.0089525	8.95E-03	2.68E-03	1.02E-03
3305	457072.7	3768109	0.0086845	8.68E-03	2.60E-03	9.85E-04
3306	457072.8	3768119	0.0084144	8.41E-03	2.52E-03	9.55E-04
3307	457072.9	3768128	0.0081447	8.14E-03	2.44E-03	9.24E-04
3308	457073	3768138	0.0078767	7.88E-03	2.36E-03	8.94E-04
3309	457073	3768148	0.0076149	7.61E-03	2.28E-03	8.64E-04
3310	457073.1	3768157	0.0073569	7.36E-03	2.20E-03	8.35E-04
3311	457073.2	3768167	0.0071025	7.10E-03	2.13E-03	8.06E-04
3312	457073.2	3768176	0.0068504	6.85E-03	2.05E-03	7.77E-04
3313	457073.3	3768186	0.0066052	6.61E-03	1.98E-03	7.49E-04
3314	457073.4	3768196	0.006367	6.37E-03	1.91E-03	7.22E-04
3315	457073.5	3768205	0.0061382	6.14E-03	1.84E-03	6.96E-04
3316	457073.5	3768215	0.0059168	5.92E-03	1.77E-03	6.71E-04
3317	457073.6	3768224	0.0057037	5.70E-03	1.71E-03	6.47E-04
3318	457073.7	3768234	0.0054993	5.50E-03	1.65E-03	6.24E-04
3319	457050.8	3768023	0.0097047	9.70E-03	2.91E-03	1.10E-03
3320	457054.4	3768015	0.0100531	1.01E-02	3.01E-03	1.14E-03
3321	457058	3768006	0.010402	1.04E-02	3.12E-03	1.18E-03
3322	457061.6	3767997	0.0107505	1.08E-02	3.22E-03	1.22E-03
3323	457065.2	3767988	0.0110954	1.11E-02	3.32E-03	1.26E-03
3324	457068.9	3767979	0.0114312	1.14E-02	3.42E-03	1.30E-03
3325	457072.5	3767970	0.0117607	1.18E-02	3.52E-03	1.33E-03
3326	457076.1	3767961	0.012083	1.21E-02	3.62E-03	1.37E-03
3327	457079.7	3767952	0.0123954	1.24E-02	3.71E-03	1.41E-03
3328	457083.3	3767943	0.0126926	1.27E-02	3.80E-03	1.44E-03
3329	457087	3767934	0.0129731	1.30E-02	3.89E-03	1.47E-03
3330	457090.6	3767926	0.0132356	1.32E-02	3.96E-03	1.50E-03
3331	457094.2	3767917	0.0134887	1.35E-02	4.04E-03	1.53E-03
3332	457097.8	3767908	0.013723	1.37E-02	4.11E-03	1.56E-03
3333	457101.4	3767899	0.0139376	1.39E-02	4.17E-03	1.58E-03
3334	457105.1	3767890	0.0141314	1.41E-02	4.23E-03	1.60E-03

3335	457108.7	3767881	0.0143037	1.43E-02	4.28E-03	1.62E-03
3336	457112.3	3767872	0.0144541	1.45E-02	4.33E-03	1.64E-03
3337	457115.9	3767863	0.0145821	1.46E-02	4.37E-03	1.65E-03
3338	457119.5	3767854	0.0146883	1.47E-02	4.40E-03	1.67E-03
3339	457123.2	3767846	0.0147722	1.48E-02	4.42E-03	1.68E-03
3340	457135.6	3767833	0.0152688	1.53E-02	4.57E-03	1.73E-03
3341	457144.5	3767829	0.0156991	1.57E-02	4.70E-03	1.78E-03
3342	457153.4	3767826	0.0161215	1.61E-02	4.83E-03	1.83E-03
3343	457162.2	3767822	0.016531	1.65E-02	4.95E-03	1.88E-03
3344	457171.1	3767818	0.0169263	1.69E-02	5.07E-03	1.92E-03
3345	457179.9	3767814	0.0173042	1.73E-02	5.18E-03	1.96E-03
3346	457188.8	3767811	0.0176628	1.77E-02	5.29E-03	2.00E-03
3347	457197.7	3767807	0.0179995	1.80E-02	5.39E-03	2.04E-03
3348	457206.5	3767803	0.0183116	1.83E-02	5.48E-03	2.08E-03
3349	457215.4	3767800	0.0185966	1.86E-02	5.57E-03	2.11E-03
3350	457224.2	3767796	0.0188534	1.89E-02	5.65E-03	2.14E-03
3351	457233.1	3767792	0.0190798	1.91E-02	5.71E-03	2.16E-03
3352	457242	3767789	0.0192745	1.93E-02	5.77E-03	2.19E-03
3353	457250.8	3767785	0.0194362	1.94E-02	5.82E-03	2.21E-03
3354	457259.7	3767781	0.0195635	1.96E-02	5.86E-03	2.22E-03
3355	457268.5	3767777	0.0196571	1.97E-02	5.89E-03	2.23E-03
3356	457277.4	3767774	0.0197279	1.97E-02	5.91E-03	2.24E-03
3357	457286.3	3767770	0.019762	1.98E-02	5.92E-03	2.24E-03
3358	457047.1	3768032	0.0093584	9.36E-03	2.80E-03	1.06E-03
3359	457047.2	3768042	0.0091663	9.17E-03	2.75E-03	1.04E-03
3360	457047.3	3768052	0.0089687	8.97E-03	2.69E-03	1.02E-03
3361	457047.4	3768061	0.0087655	8.77E-03	2.63E-03	9.94E-04
3362	457047.4	3768071	0.008556	8.56E-03	2.56E-03	9.71E-04
3363	457047.5	3768080	0.0083414	8.34E-03	2.50E-03	9.46E-04
3364	457047.6	3768090	0.0081218	8.12E-03	2.43E-03	9.21E-04
3365	457047.7	3768100	0.0078994	7.90E-03	2.37E-03	8.96E-04
3366	457047.7	3768109	0.0076751	7.68E-03	2.30E-03	8.71E-04
3367	457047.8	3768119	0.0074489	7.45E-03	2.23E-03	8.45E-04
3368	457047.9	3768128	0.0072233	7.22E-03	2.16E-03	8.20E-04
3369	457048	3768138	0.0069992	7.00E-03	2.10E-03	7.94E-04
3370	457048	3768148	0.0067792	6.78E-03	2.03E-03	7.69E-04
3371	457048.1	3768157	0.0065626	6.56E-03	1.97E-03	7.45E-04
3372	457048.2	3768167	0.0063496	6.35E-03	1.90E-03	7.20E-04
3373	457048.3	3768177	0.0061403	6.14E-03	1.84E-03	6.97E-04
3374	457048.3	3768186	0.0059358	5.94E-03	1.78E-03	6.73E-04
3375	457048.4	3768196	0.0057369	5.74E-03	1.72E-03	6.51E-04
3376	457048.5	3768205	0.0055435	5.54E-03	1.66E-03	6.29E-04
3377	457048.5	3768215	0.0053562	5.36E-03	1.60E-03	6.08E-04
3378	457048.6	3768225	0.0051752	5.18E-03	1.55E-03	5.87E-04
3379	457048.7	3768234	0.005002	5.00E-03	1.50E-03	5.67E-04
3380	457025.8	3768024	0.0085953	8.60E-03	2.57E-03	9.75E-04
3381	457029.4	3768015	0.0088947	8.89E-03	2.66E-03	1.01E-03

3382	457033	3768006	0.009192	9.19E-03	2.75E-03	1.04E-03
3383	457036.6	3767997	0.0094906	9.49E-03	2.84E-03	1.08E-03
3384	457040.2	3767988	0.00979	9.79E-03	2.93E-03	1.11E-03
3385	457043.9	3767979	0.0100886	1.01E-02	3.02E-03	1.14E-03
3386	457047.5	3767970	0.0103825	1.04E-02	3.11E-03	1.18E-03
3387	457051.1	3767961	0.0106695	1.07E-02	3.20E-03	1.21E-03
3388	457054.7	3767952	0.0109505	1.10E-02	3.28E-03	1.24E-03
3389	457058.3	3767944	0.0112265	1.12E-02	3.36E-03	1.27E-03
3390	457062	3767935	0.0114935	1.15E-02	3.44E-03	1.30E-03
3391	457065.6	3767926	0.0117487	1.17E-02	3.52E-03	1.33E-03
3392	457069.2	3767917	0.0119922	1.20E-02	3.59E-03	1.36E-03
3393	457072.8	3767908	0.0122223	1.22E-02	3.66E-03	1.39E-03
3394	457076.4	3767899	0.0124379	1.24E-02	3.73E-03	1.41E-03
3395	457080.1	3767890	0.012638	1.26E-02	3.79E-03	1.43E-03
3396	457083.7	3767881	0.0128218	1.28E-02	3.84E-03	1.45E-03
3397	457087.3	3767872	0.0129885	1.30E-02	3.89E-03	1.47E-03
3398	457090.9	3767864	0.0131351	1.31E-02	3.93E-03	1.49E-03
3399	457094.5	3767855	0.0132591	1.33E-02	3.97E-03	1.50E-03
3400	457098.2	3767846	0.0133672	1.34E-02	4.00E-03	1.52E-03
3401	457101.8	3767837	0.0134593	1.35E-02	4.03E-03	1.53E-03
3402	457105.4	3767828	0.0135346	1.35E-02	4.05E-03	1.54E-03
3403	457117.9	3767815	0.0139732	1.40E-02	4.19E-03	1.59E-03
3404	457126.7	3767812	0.0143546	1.44E-02	4.30E-03	1.63E-03
3405	457135.6	3767808	0.0147326	1.47E-02	4.41E-03	1.67E-03
3406	457144.5	3767804	0.0151031	1.51E-02	4.52E-03	1.71E-03
3407	457153.3	3767801	0.0154577	1.55E-02	4.63E-03	1.75E-03
3408	457162.2	3767797	0.0157969	1.58E-02	4.73E-03	1.79E-03
3409	457171	3767793	0.0161231	1.61E-02	4.83E-03	1.83E-03
3410	457179.9	3767789	0.0164347	1.64E-02	4.92E-03	1.86E-03
3411	457188.8	3767786	0.0167226	1.67E-02	5.01E-03	1.90E-03
3412	457197.6	3767782	0.0169894	1.70E-02	5.09E-03	1.93E-03
3413	457206.5	3767778	0.0172332	1.72E-02	5.16E-03	1.96E-03
3414	457215.3	3767775	0.0174525	1.75E-02	5.23E-03	1.98E-03
3415	457224.2	3767771	0.0176455	1.76E-02	5.29E-03	2.00E-03
3416	457233.1	3767767	0.0178119	1.78E-02	5.33E-03	2.02E-03
3417	457241.9	3767764	0.0179503	1.80E-02	5.38E-03	2.04E-03
3418	457250.8	3767760	0.01806	1.81E-02	5.41E-03	2.05E-03
3419	457259.6	3767756	0.0181399	1.81E-02	5.43E-03	2.06E-03
3420	457268.5	3767752	0.0181909	1.82E-02	5.45E-03	2.06E-03
3421	457277.4	3767749	0.0182133	1.82E-02	5.46E-03	2.07E-03
3422	457286.2	3767745	0.0182049	1.82E-02	5.45E-03	2.07E-03
3423	457022.1	3768032	0.0082981	8.30E-03	2.49E-03	9.41E-04
3424	457022.2	3768042	0.0081289	8.13E-03	2.43E-03	9.22E-04
3425	457022.3	3768052	0.0079545	7.95E-03	2.38E-03	9.02E-04
3426	457022.4	3768061	0.0077749	7.77E-03	2.33E-03	8.82E-04
3427	457022.4	3768071	0.0075915	7.59E-03	2.27E-03	8.61E-04
3428	457022.5	3768081	0.0074071	7.41E-03	2.22E-03	8.40E-04

3429	457022.6	3768090	0.007222	7.22E-03	2.16E-03	8.19E-04
3430	457022.7	3768100	0.0070352	7.04E-03	2.11E-03	7.98E-04
3431	457022.7	3768109	0.0068458	6.85E-03	2.05E-03	7.77E-04
3432	457022.8	3768119	0.006654	6.65E-03	1.99E-03	7.55E-04
3433	457022.9	3768129	0.0064631	6.46E-03	1.94E-03	7.33E-04
3434	457023	3768138	0.0062733	6.27E-03	1.88E-03	7.12E-04
3435	457023	3768148	0.0060855	6.09E-03	1.82E-03	6.90E-04
3436	457023.1	3768158	0.0059008	5.90E-03	1.77E-03	6.69E-04
3437	457023.2	3768167	0.0057193	5.72E-03	1.71E-03	6.49E-04
3438	457023.3	3768177	0.0055436	5.54E-03	1.66E-03	6.29E-04
3439	457023.3	3768186	0.0053716	5.37E-03	1.61E-03	6.09E-04
3440	457023.4	3768196	0.0052037	5.20E-03	1.56E-03	5.90E-04
3441	457023.5	3768206	0.0050395	5.04E-03	1.51E-03	5.72E-04
3442	457023.5	3768215	0.00488	4.88E-03	1.46E-03	5.54E-04
3443	457023.6	3768225	0.0047258	4.73E-03	1.42E-03	5.36E-04
3444	457023.7	3768234	0.0045764	4.58E-03	1.37E-03	5.19E-04
3445	457000.8	3768024	0.0076715	7.67E-03	2.30E-03	8.70E-04
3446	457004.4	3768015	0.0079306	7.93E-03	2.38E-03	9.00E-04
3447	457008	3768006	0.0081887	8.19E-03	2.45E-03	9.29E-04
3448	457011.6	3767997	0.0084474	8.45E-03	2.53E-03	9.58E-04
3449	457015.2	3767988	0.0087063	8.71E-03	2.61E-03	9.88E-04
3450	457018.9	3767979	0.0089686	8.97E-03	2.69E-03	1.02E-03
3451	457022.5	3767970	0.0092304	9.23E-03	2.76E-03	1.05E-03
3452	457026.1	3767962	0.0094898	9.49E-03	2.84E-03	1.08E-03
3453	457029.7	3767953	0.0097452	9.75E-03	2.92E-03	1.11E-03
3454	457033.3	3767944	0.0099957	1.00E-02	2.99E-03	1.13E-03
3455	457037	3767935	0.0102402	1.02E-02	3.07E-03	1.16E-03
3456	457040.6	3767926	0.0104774	1.05E-02	3.14E-03	1.19E-03
3457	457044.2	3767917	0.0107062	1.07E-02	3.21E-03	1.21E-03
3458	457047.8	3767908	0.0109255	1.09E-02	3.27E-03	1.24E-03
3459	457051.4	3767899	0.0111344	1.11E-02	3.33E-03	1.26E-03
3460	457055.1	3767890	0.0113313	1.13E-02	3.39E-03	1.29E-03
3461	457058.7	3767881	0.0115171	1.15E-02	3.45E-03	1.31E-03
3462	457062.3	3767873	0.0116897	1.17E-02	3.50E-03	1.33E-03
3463	457065.9	3767864	0.0118462	1.18E-02	3.55E-03	1.34E-03
3464	457069.5	3767855	0.0119834	1.20E-02	3.59E-03	1.36E-03
3465	457073.2	3767846	0.0121054	1.21E-02	3.63E-03	1.37E-03
3466	457076.8	3767837	0.0122123	1.22E-02	3.66E-03	1.39E-03
3467	457080.4	3767828	0.0123119	1.23E-02	3.69E-03	1.40E-03
3468	457084	3767819	0.0123967	1.24E-02	3.71E-03	1.41E-03
3469	457087.6	3767810	0.0124667	1.25E-02	3.73E-03	1.41E-03
3470	457100.1	3767798	0.0128602	1.29E-02	3.85E-03	1.46E-03
3471	457109	3767794	0.0131954	1.32E-02	3.95E-03	1.50E-03
3472	457117.8	3767790	0.0135255	1.35E-02	4.05E-03	1.53E-03
3473	457126.7	3767787	0.0138514	1.39E-02	4.15E-03	1.57E-03
3474	457135.6	3767783	0.0141675	1.42E-02	4.24E-03	1.61E-03
3475	457144.4	3767779	0.014471	1.45E-02	4.33E-03	1.64E-03

3476	457153.3	3767776	0.0147654	1.48E-02	4.42E-03	1.68E-03
3477	457162.1	3767772	0.0150551	1.51E-02	4.51E-03	1.71E-03
3478	457171	3767768	0.0153294	1.53E-02	4.59E-03	1.74E-03
3479	457179.9	3767764	0.0155864	1.56E-02	4.67E-03	1.77E-03
3480	457188.7	3767761	0.0158158	1.58E-02	4.74E-03	1.79E-03
3481	457197.6	3767757	0.0160253	1.60E-02	4.80E-03	1.82E-03
3482	457206.4	3767753	0.0162137	1.62E-02	4.86E-03	1.84E-03
3483	457215.3	3767750	0.0163798	1.64E-02	4.91E-03	1.86E-03
3484	457224.2	3767746	0.0165222	1.65E-02	4.95E-03	1.87E-03
3485	457233	3767742	0.0166411	1.66E-02	4.98E-03	1.89E-03
3486	457241.9	3767739	0.0167353	1.67E-02	5.01E-03	1.90E-03
3487	457250.7	3767735	0.0168045	1.68E-02	5.03E-03	1.91E-03
3488	457259.6	3767731	0.016848	1.68E-02	5.05E-03	1.91E-03
3489	457268.5	3767727	0.0168665	1.69E-02	5.05E-03	1.91E-03
3490	457277.3	3767724	0.0168599	1.69E-02	5.05E-03	1.91E-03
3491	457286.2	3767720	0.0168284	1.68E-02	5.04E-03	1.91E-03
3492	456997.1	3768033	0.0074144	7.41E-03	2.22E-03	8.41E-04
3493	456997.2	3768042	0.0072655	7.27E-03	2.18E-03	8.24E-04
3494	456997.3	3768052	0.0071127	7.11E-03	2.13E-03	8.07E-04
3495	456997.4	3768062	0.006956	6.96E-03	2.08E-03	7.89E-04
3496	456997.4	3768071	0.0067967	6.80E-03	2.04E-03	7.71E-04
3497	456997.5	3768081	0.0066372	6.64E-03	1.99E-03	7.53E-04
3498	456997.6	3768090	0.0064773	6.48E-03	1.94E-03	7.35E-04
3499	456997.7	3768100	0.0063165	6.32E-03	1.89E-03	7.17E-04
3500	456997.7	3768110	0.0061539	6.15E-03	1.84E-03	6.98E-04
3501	456997.8	3768119	0.0059898	5.99E-03	1.79E-03	6.80E-04
3502	456997.9	3768129	0.0058269	5.83E-03	1.75E-03	6.61E-04
3503	456998	3768138	0.0056648	5.66E-03	1.70E-03	6.43E-04
3504	456998	3768148	0.0055046	5.50E-03	1.65E-03	6.25E-04
3505	456998.1	3768158	0.0053465	5.35E-03	1.60E-03	6.07E-04
3506	456998.2	3768167	0.0051912	5.19E-03	1.55E-03	5.89E-04
3507	456998.3	3768177	0.005039	5.04E-03	1.51E-03	5.72E-04
3508	456998.3	3768187	0.0048902	4.89E-03	1.46E-03	5.55E-04
3509	456998.4	3768196	0.0047449	4.74E-03	1.42E-03	5.38E-04
3510	456998.5	3768206	0.0046054	4.61E-03	1.38E-03	5.23E-04
3511	456998.5	3768215	0.0044694	4.47E-03	1.34E-03	5.07E-04
3512	456998.6	3768225	0.0043375	4.34E-03	1.30E-03	4.92E-04
3513	456998.7	3768235	0.0042083	4.21E-03	1.26E-03	4.77E-04
3514	456975.8	3768024	0.0068872	6.89E-03	2.06E-03	7.81E-04
3515	456979.4	3768015	0.0071118	7.11E-03	2.13E-03	8.07E-04
3516	456983	3768006	0.0073403	7.34E-03	2.20E-03	8.33E-04
3517	456986.6	3767997	0.0075695	7.57E-03	2.27E-03	8.59E-04
3518	456990.2	3767988	0.0077989	7.80E-03	2.34E-03	8.85E-04
3519	456993.9	3767980	0.0080305	8.03E-03	2.41E-03	9.11E-04
3520	456997.5	3767971	0.0082625	8.26E-03	2.47E-03	9.37E-04
3521	457001.1	3767962	0.0084934	8.49E-03	2.54E-03	9.64E-04
3522	457004.7	3767953	0.0087223	8.72E-03	2.61E-03	9.90E-04

3523	457008.3	3767944	0.0089483	8.95E-03	2.68E-03	1.02E-03
3524	457012	3767935	0.0091706	9.17E-03	2.75E-03	1.04E-03
3525	457015.6	3767926	0.009388	9.39E-03	2.81E-03	1.07E-03
3526	457019.2	3767917	0.009598	9.60E-03	2.87E-03	1.09E-03
3527	457022.8	3767908	0.0098027	9.80E-03	2.94E-03	1.11E-03
3528	457026.4	3767899	0.0100014	1.00E-02	3.00E-03	1.13E-03
3529	457030.1	3767891	0.010189	1.02E-02	3.05E-03	1.16E-03
3530	457033.7	3767882	0.0103648	1.04E-02	3.10E-03	1.18E-03
3531	457037.3	3767873	0.0105321	1.05E-02	3.15E-03	1.19E-03
3532	457040.9	3767864	0.010691	1.07E-02	3.20E-03	1.21E-03
3533	457044.5	3767855	0.0108395	1.08E-02	3.25E-03	1.23E-03
3534	457048.2	3767846	0.010975	1.10E-02	3.29E-03	1.25E-03
3535	457051.8	3767837	0.0110969	1.11E-02	3.32E-03	1.26E-03
3536	457055.4	3767828	0.0112104	1.12E-02	3.36E-03	1.27E-03
3537	457059	3767819	0.011312	1.13E-02	3.39E-03	1.28E-03
3538	457062.6	3767811	0.011401	1.14E-02	3.41E-03	1.29E-03
3539	457066.3	3767802	0.0114773	1.15E-02	3.44E-03	1.30E-03
3540	457069.9	3767793	0.0115409	1.15E-02	3.46E-03	1.31E-03
3541	457082.4	3767780	0.0118933	1.19E-02	3.56E-03	1.35E-03
3542	457091.2	3767776	0.0121918	1.22E-02	3.65E-03	1.38E-03
3543	457100.1	3767773	0.0124866	1.25E-02	3.74E-03	1.42E-03
3544	457108.9	3767769	0.0127762	1.28E-02	3.83E-03	1.45E-03
3545	457117.8	3767765	0.0130592	1.31E-02	3.91E-03	1.48E-03
3546	457126.7	3767762	0.0133341	1.33E-02	3.99E-03	1.51E-03
3547	457135.5	3767758	0.0135995	1.36E-02	4.07E-03	1.54E-03
3548	457144.4	3767754	0.0138541	1.39E-02	4.15E-03	1.57E-03
3549	457153.2	3767751	0.0141003	1.41E-02	4.22E-03	1.60E-03
3550	457162.1	3767747	0.0143386	1.43E-02	4.29E-03	1.63E-03
3551	457171	3767743	0.0145616	1.46E-02	4.36E-03	1.65E-03
3552	457179.8	3767739	0.0147681	1.48E-02	4.42E-03	1.68E-03
3553	457188.7	3767736	0.0149491	1.49E-02	4.48E-03	1.70E-03
3554	457197.5	3767732	0.0151117	1.51E-02	4.53E-03	1.71E-03
3555	457206.4	3767728	0.015255	1.53E-02	4.57E-03	1.73E-03
3556	457215.3	3767725	0.0153782	1.54E-02	4.61E-03	1.74E-03
3557	457224.1	3767721	0.0154802	1.55E-02	4.64E-03	1.76E-03
3558	457233	3767717	0.0155614	1.56E-02	4.66E-03	1.77E-03
3559	457241.8	3767714	0.0156209	1.56E-02	4.68E-03	1.77E-03
3560	457250.7	3767710	0.0156586	1.57E-02	4.69E-03	1.78E-03
3561	457259.6	3767706	0.015674	1.57E-02	4.69E-03	1.78E-03
3562	457268.4	3767702	0.0156679	1.57E-02	4.69E-03	1.78E-03
3563	457277.3	3767699	0.0156401	1.56E-02	4.68E-03	1.77E-03
3564	457286.1	3767695	0.015591	1.56E-02	4.67E-03	1.77E-03
3565	456972.1	3768033	0.0066667	6.67E-03	2.00E-03	7.56E-04
3566	456972.2	3768042	0.006538	6.54E-03	1.96E-03	7.42E-04
3567	456972.3	3768052	0.0064046	6.40E-03	1.92E-03	7.27E-04
3568	456972.4	3768062	0.0062674	6.27E-03	1.88E-03	7.11E-04
3569	456972.4	3768071	0.0061285	6.13E-03	1.84E-03	6.95E-04

3570	456972.5	3768081	0.0059881	5.99E-03	1.79E-03	6.79E-04
3571	456972.6	3768091	0.0058469	5.85E-03	1.75E-03	6.63E-04
3572	456972.7	3768100	0.0057054	5.71E-03	1.71E-03	6.47E-04
3573	456972.7	3768110	0.0055644	5.56E-03	1.67E-03	6.31E-04
3574	456972.8	3768119	0.0054251	5.43E-03	1.62E-03	6.15E-04
3575	456972.9	3768129	0.0052864	5.29E-03	1.58E-03	6.00E-04
3576	456973	3768139	0.0051483	5.15E-03	1.54E-03	5.84E-04
3577	456973	3768148	0.0050102	5.01E-03	1.50E-03	5.68E-04
3578	456973.1	3768158	0.0048738	4.87E-03	1.46E-03	5.53E-04
3579	456973.2	3768168	0.0047398	4.74E-03	1.42E-03	5.38E-04
3580	456973.3	3768177	0.0046083	4.61E-03	1.38E-03	5.23E-04
3581	456973.3	3768187	0.0044795	4.48E-03	1.34E-03	5.08E-04
3582	456973.4	3768196	0.0043538	4.35E-03	1.30E-03	4.94E-04
3583	456973.5	3768206	0.0042326	4.23E-03	1.27E-03	4.80E-04
3584	456973.5	3768216	0.0041144	4.11E-03	1.23E-03	4.67E-04
3585	456973.6	3768225	0.0039995	4.00E-03	1.20E-03	4.54E-04
3586	456973.7	3768235	0.0038867	3.89E-03	1.16E-03	4.41E-04
3587	456950.8	3768024	0.0062247	6.22E-03	1.86E-03	7.06E-04
3588	456954.4	3768015	0.0064211	6.42E-03	1.92E-03	7.28E-04
3589	456958	3768006	0.0066212	6.62E-03	1.98E-03	7.51E-04
3590	456961.6	3767997	0.0068237	6.82E-03	2.04E-03	7.74E-04
3591	456965.2	3767989	0.0070278	7.03E-03	2.10E-03	7.97E-04
3592	456968.9	3767980	0.0072331	7.23E-03	2.17E-03	8.21E-04
3593	456972.5	3767971	0.0074388	7.44E-03	2.23E-03	8.44E-04
3594	456976.1	3767962	0.0076444	7.64E-03	2.29E-03	8.67E-04
3595	456979.7	3767953	0.0078482	7.85E-03	2.35E-03	8.90E-04
3596	456983.3	3767944	0.0080492	8.05E-03	2.41E-03	9.13E-04
3597	456987	3767935	0.0082489	8.25E-03	2.47E-03	9.36E-04
3598	456990.6	3767926	0.0084469	8.45E-03	2.53E-03	9.58E-04
3599	456994.2	3767917	0.0086391	8.64E-03	2.59E-03	9.80E-04
3600	456997.8	3767909	0.0088255	8.83E-03	2.64E-03	1.00E-03
3601	457001.4	3767900	0.0090062	9.01E-03	2.70E-03	1.02E-03
3602	457005.1	3767891	0.0091845	9.18E-03	2.75E-03	1.04E-03
3603	457008.7	3767882	0.0093569	9.36E-03	2.80E-03	1.06E-03
3604	457012.3	3767873	0.0095204	9.52E-03	2.85E-03	1.08E-03
3605	457015.9	3767864	0.0096758	9.68E-03	2.90E-03	1.10E-03
3606	457019.5	3767855	0.0098246	9.82E-03	2.94E-03	1.11E-03
3607	457023.2	3767846	0.0099645	9.96E-03	2.98E-03	1.13E-03
3608	457026.8	3767837	0.0100951	1.01E-02	3.02E-03	1.15E-03
3609	457030.4	3767829	0.010216	1.02E-02	3.06E-03	1.16E-03
3610	457034	3767820	0.0103269	1.03E-02	3.09E-03	1.17E-03
3611	457037.6	3767811	0.0104275	1.04E-02	3.12E-03	1.18E-03
3612	457041.3	3767802	0.0105156	1.05E-02	3.15E-03	1.19E-03
3613	457044.9	3767793	0.0105922	1.06E-02	3.17E-03	1.20E-03
3614	457048.5	3767784	0.0106599	1.07E-02	3.19E-03	1.21E-03
3615	457052.1	3767775	0.0107183	1.07E-02	3.21E-03	1.22E-03
3616	457064.6	3767763	0.0110402	1.10E-02	3.31E-03	1.25E-03

3617	457073.5	3767759	0.0113076	1.13E-02	3.39E-03	1.28E-03
3618	457082.3	3767755	0.011572	1.16E-02	3.47E-03	1.31E-03
3619	457091.2	3767751	0.0118322	1.18E-02	3.54E-03	1.34E-03
3620	457100	3767748	0.0120873	1.21E-02	3.62E-03	1.37E-03
3621	457108.9	3767744	0.0123347	1.23E-02	3.69E-03	1.40E-03
3622	457117.8	3767740	0.0125722	1.26E-02	3.77E-03	1.43E-03
3623	457126.6	3767737	0.0128029	1.28E-02	3.83E-03	1.45E-03
3624	457135.5	3767733	0.0130261	1.30E-02	3.90E-03	1.48E-03
3625	457144.3	3767729	0.0132406	1.32E-02	3.97E-03	1.50E-03
3626	457153.2	3767726	0.0134461	1.34E-02	4.03E-03	1.53E-03
3627	457162.1	3767722	0.0136406	1.36E-02	4.09E-03	1.55E-03
3628	457170.9	3767718	0.0138206	1.38E-02	4.14E-03	1.57E-03
3629	457179.8	3767714	0.0139834	1.40E-02	4.19E-03	1.59E-03
3630	457188.6	3767711	0.0141226	1.41E-02	4.23E-03	1.60E-03
3631	457197.5	3767707	0.0142467	1.42E-02	4.27E-03	1.62E-03
3632	457206.4	3767703	0.0143555	1.44E-02	4.30E-03	1.63E-03
3633	457215.2	3767700	0.0144455	1.44E-02	4.33E-03	1.64E-03
3634	457224.1	3767696	0.0145152	1.45E-02	4.35E-03	1.65E-03
3635	457232.9	3767692	0.0145665	1.46E-02	4.36E-03	1.65E-03
3636	457241.8	3767689	0.0145987	1.46E-02	4.37E-03	1.66E-03
3637	457250.7	3767685	0.0146119	1.46E-02	4.38E-03	1.66E-03
3638	457259.5	3767681	0.0146056	1.46E-02	4.37E-03	1.66E-03
3639	457268.4	3767677	0.0145808	1.46E-02	4.37E-03	1.65E-03
3640	457277.2	3767674	0.0145374	1.45E-02	4.35E-03	1.65E-03
3641	457286.1	3767670	0.0144756	1.45E-02	4.34E-03	1.64E-03
3642	456947.1	3768033	0.0060307	6.03E-03	1.81E-03	6.84E-04
3643	456947.2	3768043	0.0059145	5.91E-03	1.77E-03	6.71E-04
3644	456947.3	3768052	0.0057975	5.80E-03	1.74E-03	6.58E-04
3645	456947.4	3768062	0.005679	5.68E-03	1.70E-03	6.44E-04
3646	456947.4	3768072	0.0055592	5.56E-03	1.67E-03	6.31E-04
3647	456947.5	3768081	0.005437	5.44E-03	1.63E-03	6.17E-04
3648	456947.6	3768091	0.0053133	5.31E-03	1.59E-03	6.03E-04
3649	456947.7	3768100	0.0051897	5.19E-03	1.55E-03	5.89E-04
3650	456947.7	3768110	0.0050662	5.07E-03	1.52E-03	5.75E-04
3651	456947.8	3768120	0.0049437	4.94E-03	1.48E-03	5.61E-04
3652	456947.9	3768129	0.0048218	4.82E-03	1.44E-03	5.47E-04
3653	456948	3768139	0.0047012	4.70E-03	1.41E-03	5.33E-04
3654	456948	3768148	0.0045827	4.58E-03	1.37E-03	5.20E-04
3655	456948.1	3768158	0.0044655	4.47E-03	1.34E-03	5.07E-04
3656	456948.2	3768168	0.0043499	4.35E-03	1.30E-03	4.94E-04
3657	456948.3	3768177	0.0042354	4.24E-03	1.27E-03	4.81E-04
3658	456948.3	3768187	0.0041231	4.12E-03	1.23E-03	4.68E-04
3659	456948.4	3768197	0.0040133	4.01E-03	1.20E-03	4.55E-04
3660	456948.5	3768206	0.0039065	3.91E-03	1.17E-03	4.43E-04
3661	456948.5	3768216	0.0038021	3.80E-03	1.14E-03	4.31E-04
3662	456948.6	3768225	0.0037006	3.70E-03	1.11E-03	4.20E-04
3663	456948.7	3768235	0.0036022	3.60E-03	1.08E-03	4.09E-04

3664	456925.8	3768024	0.0056592	5.66E-03	1.70E-03	6.42E-04
3665	456929.4	3768015	0.005833	5.83E-03	1.75E-03	6.62E-04
3666	456933	3768007	0.0060093	6.01E-03	1.80E-03	6.82E-04
3667	456936.6	3767998	0.0061879	6.19E-03	1.85E-03	7.02E-04
3668	456940.2	3767989	0.0063683	6.37E-03	1.91E-03	7.23E-04
3669	456943.9	3767980	0.0065502	6.55E-03	1.96E-03	7.43E-04
3670	456947.5	3767971	0.0067331	6.73E-03	2.02E-03	7.64E-04
3671	456951.1	3767962	0.0069163	6.92E-03	2.07E-03	7.85E-04
3672	456954.7	3767953	0.0070984	7.10E-03	2.13E-03	8.05E-04
3673	456958.3	3767944	0.0072771	7.28E-03	2.18E-03	8.26E-04
3674	456962	3767935	0.0074543	7.45E-03	2.23E-03	8.46E-04
3675	456965.6	3767927	0.0076296	7.63E-03	2.29E-03	8.66E-04
3676	456969.2	3767918	0.0078065	7.81E-03	2.34E-03	8.86E-04
3677	456972.8	3767909	0.0079812	7.98E-03	2.39E-03	9.06E-04
3678	456976.4	3767900	0.0081518	8.15E-03	2.44E-03	9.25E-04
3679	456980.1	3767891	0.0083178	8.32E-03	2.49E-03	9.44E-04
3680	456983.7	3767882	0.0084797	8.48E-03	2.54E-03	9.62E-04
3681	456987.3	3767873	0.0086363	8.64E-03	2.59E-03	9.80E-04
3682	456990.9	3767864	0.0087871	8.79E-03	2.63E-03	9.97E-04
3683	456994.5	3767855	0.0089316	8.93E-03	2.68E-03	1.01E-03
3684	456998.2	3767846	0.0090694	9.07E-03	2.72E-03	1.03E-03
3685	457001.8	3767838	0.0091999	9.20E-03	2.76E-03	1.04E-03
3686	457005.4	3767829	0.009319	9.32E-03	2.79E-03	1.06E-03
3687	457009	3767820	0.0094306	9.43E-03	2.82E-03	1.07E-03
3688	457012.6	3767811	0.0095352	9.54E-03	2.86E-03	1.08E-03
3689	457016.3	3767802	0.0096323	9.63E-03	2.89E-03	1.09E-03
3690	457019.9	3767793	0.0097195	9.72E-03	2.91E-03	1.10E-03
3691	457023.5	3767784	0.0097963	9.80E-03	2.93E-03	1.11E-03
3692	457027.1	3767775	0.0098632	9.86E-03	2.95E-03	1.12E-03
3693	457030.7	3767766	0.009926	9.93E-03	2.97E-03	1.13E-03
3694	457034.4	3767758	0.0099814	9.98E-03	2.99E-03	1.13E-03
3695	457046.8	3767745	0.0102744	1.03E-02	3.08E-03	1.17E-03
3696	457055.7	3767741	0.0105179	1.05E-02	3.15E-03	1.19E-03
3697	457064.6	3767738	0.0107567	1.08E-02	3.22E-03	1.22E-03
3698	457073.4	3767734	0.0109918	1.10E-02	3.29E-03	1.25E-03
3699	457082.3	3767730	0.0112243	1.12E-02	3.36E-03	1.27E-03
3700	457091.1	3767726	0.0114519	1.15E-02	3.43E-03	1.30E-03
3701	457100	3767723	0.0116658	1.17E-02	3.49E-03	1.32E-03
3702	457108.9	3767719	0.0118703	1.19E-02	3.56E-03	1.35E-03
3703	457117.7	3767715	0.0120653	1.21E-02	3.61E-03	1.37E-03
3704	457126.6	3767712	0.0122646	1.23E-02	3.67E-03	1.39E-03
3705	457135.4	3767708	0.0124573	1.25E-02	3.73E-03	1.41E-03
3706	457144.3	3767704	0.012639	1.26E-02	3.79E-03	1.43E-03
3707	457153.2	3767701	0.0128078	1.28E-02	3.84E-03	1.45E-03
3708	457162	3767697	0.0129601	1.30E-02	3.88E-03	1.47E-03
3709	457170.9	3767693	0.0130973	1.31E-02	3.92E-03	1.49E-03
3710	457179.8	3767689	0.0132182	1.32E-02	3.96E-03	1.50E-03

3711	457188.6	3767686	0.013331	1.33E-02	3.99E-03	1.51E-03
3712	457197.5	3767682	0.0134312	1.34E-02	4.02E-03	1.52E-03
3713	457206.3	3767678	0.0135152	1.35E-02	4.05E-03	1.53E-03
3714	457215.2	3767675	0.0135785	1.36E-02	4.07E-03	1.54E-03
3715	457224.1	3767671	0.0136224	1.36E-02	4.08E-03	1.55E-03
3716	457232.9	3767667	0.01365	1.37E-02	4.09E-03	1.55E-03
3717	457241.8	3767664	0.0136609	1.37E-02	4.09E-03	1.55E-03
3718	457250.6	3767660	0.0136551	1.37E-02	4.09E-03	1.55E-03
3719	457259.5	3767656	0.0136322	1.36E-02	4.08E-03	1.55E-03
3720	457268.4	3767652	0.0135933	1.36E-02	4.07E-03	1.54E-03
3721	457277.2	3767649	0.0135384	1.35E-02	4.05E-03	1.54E-03
3722	457286.1	3767645	0.0134676	1.35E-02	4.03E-03	1.53E-03
3723	456922.1	3768033	0.0054885	5.49E-03	1.64E-03	6.23E-04
3724	456922.2	3768043	0.0053846	5.38E-03	1.61E-03	6.11E-04
3725	456922.3	3768053	0.0052808	5.28E-03	1.58E-03	5.99E-04
3726	456922.4	3768062	0.0051766	5.18E-03	1.55E-03	5.87E-04
3727	456922.4	3768072	0.0050714	5.07E-03	1.52E-03	5.75E-04
3728	456922.5	3768081	0.004964	4.96E-03	1.49E-03	5.63E-04
3729	456922.6	3768091	0.0048552	4.86E-03	1.45E-03	5.51E-04
3730	456922.7	3768101	0.0047466	4.75E-03	1.42E-03	5.39E-04
3731	456922.7	3768110	0.0046381	4.64E-03	1.39E-03	5.26E-04
3732	456922.8	3768120	0.0045302	4.53E-03	1.36E-03	5.14E-04
3733	456922.9	3768129	0.0044228	4.42E-03	1.32E-03	5.02E-04
3734	456923	3768139	0.0043167	4.32E-03	1.29E-03	4.90E-04
3735	456923	3768149	0.0042124	4.21E-03	1.26E-03	4.78E-04
3736	456923.1	3768158	0.0041095	4.11E-03	1.23E-03	4.66E-04
3737	456923.2	3768168	0.0040082	4.01E-03	1.20E-03	4.55E-04
3738	456923.3	3768178	0.0039086	3.91E-03	1.17E-03	4.43E-04
3739	456923.3	3768187	0.0038106	3.81E-03	1.14E-03	4.32E-04
3740	456923.4	3768197	0.0037148	3.71E-03	1.11E-03	4.21E-04
3741	456923.5	3768206	0.0036202	3.62E-03	1.08E-03	4.11E-04
3742	456923.5	3768216	0.003528	3.53E-03	1.06E-03	4.00E-04
3743	456923.6	3768226	0.003438	3.44E-03	1.03E-03	3.90E-04
3744	456923.7	3768235	0.0033507	3.35E-03	1.00E-03	3.80E-04
3745	456885.7	3768025	0.0049073	4.91E-03	1.47E-03	5.57E-04
3746	456889.2	3768016	0.0050469	5.05E-03	1.51E-03	5.73E-04
3747	456892.8	3768007	0.0051875	5.19E-03	1.55E-03	5.89E-04
3748	456924.6	3767929	0.0065159	6.52E-03	1.95E-03	7.39E-04
3749	456928.2	3767921	0.0066644	6.66E-03	2.00E-03	7.56E-04
3750	456931.7	3767912	0.0068123	6.81E-03	2.04E-03	7.73E-04
3751	456935.2	3767903	0.0069587	6.96E-03	2.08E-03	7.89E-04
3752	456938.8	3767894	0.007103	7.10E-03	2.13E-03	8.06E-04
3753	456942.3	3767886	0.007245	7.24E-03	2.17E-03	8.22E-04
3754	456945.9	3767877	0.0073842	7.38E-03	2.21E-03	8.38E-04
3755	456949.4	3767868	0.0075201	7.52E-03	2.25E-03	8.53E-04
3756	456952.9	3767860	0.0076508	7.65E-03	2.29E-03	8.68E-04
3757	456956.5	3767851	0.0077778	7.78E-03	2.33E-03	8.82E-04

3758	456960	3767842	0.0079009	7.90E-03	2.37E-03	8.96E-04
3759	456963.6	3767834	0.00802	8.02E-03	2.40E-03	9.10E-04
3760	456967.1	3767825	0.0081319	8.13E-03	2.44E-03	9.23E-04
3761	456970.6	3767816	0.008237	8.24E-03	2.47E-03	9.35E-04
3762	456974.2	3767807	0.0083356	8.34E-03	2.50E-03	9.46E-04
3763	456977.7	3767799	0.0084322	8.43E-03	2.53E-03	9.57E-04
3764	456981.3	3767790	0.0085235	8.52E-03	2.55E-03	9.67E-04
3765	456984.8	3767781	0.0086083	8.61E-03	2.58E-03	9.77E-04
3766	456988.3	3767773	0.0086867	8.69E-03	2.60E-03	9.86E-04
3767	456991.9	3767764	0.0087585	8.76E-03	2.62E-03	9.94E-04
3768	456995.4	3767755	0.0088236	8.82E-03	2.64E-03	1.00E-03
3769	456999	3767747	0.0088818	8.88E-03	2.66E-03	1.01E-03
3770	457002.5	3767738	0.0089331	8.93E-03	2.68E-03	1.01E-03
3771	457006	3767729	0.0089777	8.98E-03	2.69E-03	1.02E-03
3772	457018.2	3767717	0.0092155	9.22E-03	2.76E-03	1.05E-03
3773	457026.9	3767713	0.0094149	9.41E-03	2.82E-03	1.07E-03
3774	457035.6	3767710	0.0096129	9.61E-03	2.88E-03	1.09E-03
3775	457044.2	3767706	0.0098087	9.81E-03	2.94E-03	1.11E-03
3776	457052.9	3767702	0.0100019	1.00E-02	3.00E-03	1.13E-03
3777	457061.6	3767699	0.010192	1.02E-02	3.05E-03	1.16E-03
3778	457070.2	3767695	0.0103789	1.04E-02	3.11E-03	1.18E-03
3779	457078.9	3767692	0.0105602	1.06E-02	3.16E-03	1.20E-03
3780	457087.5	3767688	0.0107341	1.07E-02	3.22E-03	1.22E-03
3781	457096.2	3767684	0.0109023	1.09E-02	3.27E-03	1.24E-03
3782	457104.9	3767681	0.0110644	1.11E-02	3.31E-03	1.26E-03
3783	457113.5	3767677	0.0112193	1.12E-02	3.36E-03	1.27E-03
3784	457122.2	3767673	0.0113678	1.14E-02	3.40E-03	1.29E-03
3785	457130.9	3767670	0.011512	1.15E-02	3.45E-03	1.31E-03
3786	457139.5	3767666	0.0116469	1.16E-02	3.49E-03	1.32E-03
3787	457148.2	3767663	0.0117713	1.18E-02	3.53E-03	1.34E-03
3788	457156.8	3767659	0.0118801	1.19E-02	3.56E-03	1.35E-03
3789	457165.5	3767655	0.0119768	1.20E-02	3.59E-03	1.36E-03
3790	457174.2	3767652	0.0120617	1.21E-02	3.61E-03	1.37E-03
3791	457182.8	3767648	0.0121366	1.21E-02	3.64E-03	1.38E-03
3792	457191.5	3767644	0.012201	1.22E-02	3.65E-03	1.38E-03
3793	457200.2	3767641	0.0122511	1.23E-02	3.67E-03	1.39E-03
3794	457208.8	3767637	0.0122869	1.23E-02	3.68E-03	1.39E-03
3795	457217.5	3767634	0.0123115	1.23E-02	3.69E-03	1.40E-03
3796	457226.2	3767630	0.0123245	1.23E-02	3.69E-03	1.40E-03
3797	457234.8	3767626	0.0123256	1.23E-02	3.69E-03	1.40E-03
3798	457243.5	3767623	0.0123122	1.23E-02	3.69E-03	1.40E-03
3799	457252.1	3767619	0.0122828	1.23E-02	3.68E-03	1.39E-03
3800	457260.8	3767616	0.0122404	1.22E-02	3.67E-03	1.39E-03
3801	456882.1	3768034	0.0047701	4.77E-03	1.43E-03	5.41E-04
3802	456882.2	3768043	0.0046833	4.68E-03	1.40E-03	5.31E-04
3803	456882.3	3768053	0.0045954	4.60E-03	1.38E-03	5.21E-04
3804	456882.4	3768062	0.004507	4.51E-03	1.35E-03	5.11E-04

3805	456882.4	3768072	0.0044182	4.42E-03	1.32E-03	5.01E-04
3806	456882.5	3768082	0.0043299	4.33E-03	1.30E-03	4.91E-04
3807	456882.6	3768091	0.0042422	4.24E-03	1.27E-03	4.81E-04
3808	456882.7	3768101	0.0041545	4.15E-03	1.24E-03	4.71E-04
3809	456882.7	3768111	0.0040661	4.07E-03	1.22E-03	4.61E-04
3810	456882.8	3768120	0.0039776	3.98E-03	1.19E-03	4.51E-04
3811	456882.9	3768130	0.0038896	3.89E-03	1.16E-03	4.41E-04
3812	456883	3768139	0.0038024	3.80E-03	1.14E-03	4.31E-04
3813	456883	3768149	0.0037163	3.72E-03	1.11E-03	4.22E-04
3814	456883.1	3768159	0.0036311	3.63E-03	1.09E-03	4.12E-04
3815	456883.2	3768168	0.0035474	3.55E-03	1.06E-03	4.02E-04
3816	456883.3	3768178	0.0034649	3.46E-03	1.04E-03	3.93E-04
3817	456883.3	3768187	0.0033839	3.38E-03	1.01E-03	3.84E-04
3818	456883.4	3768197	0.0033047	3.30E-03	9.90E-04	3.75E-04
3819	456883.5	3768207	0.0032277	3.23E-03	9.67E-04	3.66E-04
3820	456883.6	3768216	0.0031523	3.15E-03	9.44E-04	3.58E-04
3821	456883.6	3768226	0.0030784	3.08E-03	9.22E-04	3.49E-04
3822	456883.7	3768236	0.0030054	3.01E-03	9.00E-04	3.41E-04
3823	456845.7	3768025	0.0043052	4.31E-03	1.29E-03	4.88E-04
3824	456849.3	3768016	0.0044226	4.42E-03	1.32E-03	5.02E-04
3825	456852.8	3768008	0.0045401	4.54E-03	1.36E-03	5.15E-04
3826	456856.4	3767999	0.0046589	4.66E-03	1.40E-03	5.29E-04
3827	456860	3767990	0.0047794	4.78E-03	1.43E-03	5.42E-04
3828	456863.5	3767981	0.0049025	4.90E-03	1.47E-03	5.56E-04
3829	456867.1	3767973	0.0050278	5.03E-03	1.51E-03	5.70E-04
3830	456870.7	3767964	0.0051544	5.15E-03	1.54E-03	5.85E-04
3831	456874.2	3767955	0.0052818	5.28E-03	1.58E-03	5.99E-04
3832	456877.8	3767946	0.0054101	5.41E-03	1.62E-03	6.14E-04
3833	456881.4	3767938	0.0055385	5.54E-03	1.66E-03	6.28E-04
3834	456884.9	3767929	0.0056674	5.67E-03	1.70E-03	6.43E-04
3835	456888.5	3767920	0.0057959	5.80E-03	1.74E-03	6.58E-04
3836	456892.1	3767911	0.0059242	5.92E-03	1.77E-03	6.72E-04
3837	456924.1	3767832	0.0069988	7.00E-03	2.10E-03	7.94E-04
3838	456927.7	3767824	0.0071062	7.11E-03	2.13E-03	8.06E-04
3839	456931.3	3767815	0.0072099	7.21E-03	2.16E-03	8.18E-04
3840	456934.8	3767806	0.0073099	7.31E-03	2.19E-03	8.29E-04
3841	456938.4	3767797	0.0074055	7.41E-03	2.22E-03	8.40E-04
3842	456942	3767789	0.007497	7.50E-03	2.25E-03	8.51E-04
3843	456945.5	3767780	0.0075835	7.58E-03	2.27E-03	8.60E-04
3844	456949.1	3767771	0.0076655	7.67E-03	2.30E-03	8.70E-04
3845	456952.6	3767762	0.0077423	7.74E-03	2.32E-03	8.78E-04
3846	456956.2	3767754	0.0078139	7.81E-03	2.34E-03	8.87E-04
3847	456959.8	3767745	0.0078798	7.88E-03	2.36E-03	8.94E-04
3848	456963.3	3767736	0.0079366	7.94E-03	2.38E-03	9.00E-04
3849	456966.9	3767727	0.0079881	7.99E-03	2.39E-03	9.06E-04
3850	456970.5	3767719	0.0080341	8.03E-03	2.41E-03	9.12E-04
3851	456974	3767710	0.0080791	8.08E-03	2.42E-03	9.17E-04

3852	456977.6	3767701	0.0081181	8.12E-03	2.43E-03	9.21E-04
3853	456989.9	3767689	0.0083229	8.32E-03	2.49E-03	9.44E-04
3854	456998.6	3767685	0.0084939	8.49E-03	2.54E-03	9.64E-04
3855	457007.3	3767681	0.0086685	8.67E-03	2.60E-03	9.83E-04
3856	457016.1	3767678	0.0088407	8.84E-03	2.65E-03	1.00E-03
3857	457024.8	3767674	0.0090099	9.01E-03	2.70E-03	1.02E-03
3858	457033.5	3767670	0.0091757	9.18E-03	2.75E-03	1.04E-03
3859	457042.2	3767667	0.0093389	9.34E-03	2.80E-03	1.06E-03
3860	457051	3767663	0.0095003	9.50E-03	2.85E-03	1.08E-03
3861	457059.7	3767660	0.0096584	9.66E-03	2.89E-03	1.10E-03
3862	457068.4	3767656	0.0098079	9.81E-03	2.94E-03	1.11E-03
3863	457077.1	3767652	0.0099515	9.95E-03	2.98E-03	1.13E-03
3864	457085.8	3767649	0.0100908	1.01E-02	3.02E-03	1.14E-03
3865	457094.6	3767645	0.0102235	1.02E-02	3.06E-03	1.16E-03
3866	457103.3	3767641	0.0103492	1.03E-02	3.10E-03	1.17E-03
3867	457112	3767638	0.0104671	1.05E-02	3.14E-03	1.19E-03
3868	457120.7	3767634	0.0105781	1.06E-02	3.17E-03	1.20E-03
3869	457129.5	3767630	0.0106858	1.07E-02	3.20E-03	1.21E-03
3870	457138.2	3767627	0.0107846	1.08E-02	3.23E-03	1.22E-03
3871	457146.9	3767623	0.0108741	1.09E-02	3.26E-03	1.23E-03
3872	457155.6	3767619	0.0109513	1.10E-02	3.28E-03	1.24E-03
3873	457164.4	3767616	0.0110179	1.10E-02	3.30E-03	1.25E-03
3874	456842.1	3768034	0.0041902	4.19E-03	1.26E-03	4.75E-04
3875	456842.2	3768043	0.0041173	4.12E-03	1.23E-03	4.67E-04
3876	456842.3	3768053	0.0040434	4.04E-03	1.21E-03	4.59E-04
3877	456842.4	3768063	0.0039692	3.97E-03	1.19E-03	4.50E-04
3878	456842.4	3768072	0.0038946	3.89E-03	1.17E-03	4.42E-04
3879	456842.5	3768082	0.0038199	3.82E-03	1.14E-03	4.33E-04
3880	456842.6	3768092	0.0037454	3.75E-03	1.12E-03	4.25E-04
3881	456842.7	3768101	0.0036709	3.67E-03	1.10E-03	4.16E-04
3882	456842.7	3768111	0.0035974	3.60E-03	1.08E-03	4.08E-04
3883	456842.8	3768120	0.0035249	3.52E-03	1.06E-03	4.00E-04
3884	456842.9	3768130	0.0034528	3.45E-03	1.03E-03	3.92E-04
3885	456843	3768140	0.0033812	3.38E-03	1.01E-03	3.84E-04
3886	456843	3768149	0.0033097	3.31E-03	9.91E-04	3.75E-04
3887	456843.1	3768159	0.0032391	3.24E-03	9.70E-04	3.67E-04
3888	456843.2	3768169	0.0031694	3.17E-03	9.49E-04	3.60E-04
3889	456843.3	3768178	0.0031006	3.10E-03	9.29E-04	3.52E-04
3890	456843.3	3768188	0.0030329	3.03E-03	9.08E-04	3.44E-04
3891	456843.4	3768197	0.0029664	2.97E-03	8.88E-04	3.37E-04
3892	456843.5	3768207	0.0029018	2.90E-03	8.69E-04	3.29E-04
3893	456843.6	3768217	0.0028385	2.84E-03	8.50E-04	3.22E-04
3894	456843.6	3768226	0.0027764	2.78E-03	8.32E-04	3.15E-04
3895	456843.7	3768236	0.0027151	2.72E-03	8.13E-04	3.08E-04
3896	456805.7	3768025	0.0038093	3.81E-03	1.14E-03	4.32E-04
3897	456809.3	3768017	0.0039073	3.91E-03	1.17E-03	4.43E-04
3898	456812.9	3768008	0.004008	4.01E-03	1.20E-03	4.55E-04

3899	456816.5	3767999	0.0041104	4.11E-03	1.23E-03	4.66E-04
3900	456820.1	3767990	0.0042142	4.21E-03	1.26E-03	4.78E-04
3901	456823.7	3767981	0.0043196	4.32E-03	1.29E-03	4.90E-04
3902	456827.2	3767973	0.0044262	4.43E-03	1.33E-03	5.02E-04
3903	456830.8	3767964	0.0045342	4.53E-03	1.36E-03	5.14E-04
3904	456834.4	3767955	0.004643	4.64E-03	1.39E-03	5.27E-04
3905	456838	3767946	0.0047519	4.75E-03	1.42E-03	5.39E-04
3906	456841.6	3767937	0.004862	4.86E-03	1.46E-03	5.52E-04
3907	456845.2	3767928	0.004973	4.97E-03	1.49E-03	5.64E-04
3908	456848.8	3767920	0.0050834	5.08E-03	1.52E-03	5.77E-04
3909	456852.3	3767911	0.0051926	5.19E-03	1.56E-03	5.89E-04
3910	456855.9	3767902	0.0053022	5.30E-03	1.59E-03	6.02E-04
3911	456859.5	3767893	0.0054122	5.41E-03	1.62E-03	6.14E-04
3912	456863.1	3767884	0.005522	5.52E-03	1.65E-03	6.26E-04
3913	456866.7	3767876	0.0056303	5.63E-03	1.69E-03	6.39E-04
3914	456870.3	3767867	0.0057366	5.74E-03	1.72E-03	6.51E-04
3915	456873.9	3767858	0.0058433	5.84E-03	1.75E-03	6.63E-04
3916	456877.4	3767849	0.0059484	5.95E-03	1.78E-03	6.75E-04
3917	456881	3767840	0.0060518	6.05E-03	1.81E-03	6.87E-04
3918	456884.6	3767832	0.0061531	6.15E-03	1.84E-03	6.98E-04
3919	456888.2	3767823	0.0062523	6.25E-03	1.87E-03	7.09E-04
3920	456891.8	3767814	0.006349	6.35E-03	1.90E-03	7.20E-04
3921	456920.5	3767743	0.0069993	7.00E-03	2.10E-03	7.94E-04
3922	456924.1	3767735	0.0070644	7.06E-03	2.12E-03	8.01E-04
3923	456927.6	3767726	0.007124	7.12E-03	2.13E-03	8.08E-04
3924	456931.2	3767717	0.0071786	7.18E-03	2.15E-03	8.14E-04
3925	456934.8	3767708	0.0072306	7.23E-03	2.17E-03	8.20E-04
3926	456938.4	3767699	0.0072786	7.28E-03	2.18E-03	8.26E-04
3927	456942	3767691	0.0073219	7.32E-03	2.19E-03	8.31E-04
3928	456945.6	3767682	0.0073592	7.36E-03	2.20E-03	8.35E-04
3929	456949.2	3767673	0.0073913	7.39E-03	2.21E-03	8.39E-04
3930	456961.5	3767661	0.0075718	7.57E-03	2.27E-03	8.59E-04
3931	456970.3	3767657	0.0077243	7.72E-03	2.31E-03	8.76E-04
3932	456979.1	3767653	0.0078723	7.87E-03	2.36E-03	8.93E-04
3933	456987.8	3767650	0.0080196	8.02E-03	2.40E-03	9.10E-04
3934	456996.6	3767646	0.0081668	8.17E-03	2.45E-03	9.27E-04
3935	457005.4	3767642	0.0083115	8.31E-03	2.49E-03	9.43E-04
3936	457014.2	3767639	0.0084536	8.45E-03	2.53E-03	9.59E-04
3937	457023	3767635	0.008593	8.59E-03	2.57E-03	9.75E-04
3938	457031.7	3767631	0.0087292	8.73E-03	2.61E-03	9.90E-04
3939	457040.5	3767628	0.0088619	8.86E-03	2.65E-03	1.01E-03
3940	457049.3	3767624	0.0089896	8.99E-03	2.69E-03	1.02E-03
3941	457058.1	3767620	0.009114	9.11E-03	2.73E-03	1.03E-03
3942	457066.8	3767617	0.0092375	9.24E-03	2.77E-03	1.05E-03
3943	456802.2	3768034	0.0037127	3.71E-03	1.11E-03	4.21E-04
3944	456802.2	3768044	0.0036509	3.65E-03	1.09E-03	4.14E-04
3945	456802.3	3768053	0.0035889	3.59E-03	1.07E-03	4.07E-04

3946	456802.4	3768063	0.003527	3.53E-03	1.06E-03	4.00E-04
3947	456802.4	3768073	0.0034646	3.46E-03	1.04E-03	3.93E-04
3948	456802.5	3768082	0.0034018	3.40E-03	1.02E-03	3.86E-04
3949	456802.6	3768092	0.0033389	3.34E-03	1.00E-03	3.79E-04
3950	456802.7	3768102	0.0032762	3.28E-03	9.81E-04	3.72E-04
3951	456802.7	3768111	0.0032138	3.21E-03	9.63E-04	3.65E-04
3952	456802.8	3768121	0.0031518	3.15E-03	9.44E-04	3.58E-04
3953	456802.9	3768130	0.0030902	3.09E-03	9.26E-04	3.51E-04
3954	456803	3768140	0.0030297	3.03E-03	9.07E-04	3.44E-04
3955	456803	3768150	0.0029704	2.97E-03	8.90E-04	3.37E-04
3956	456803.1	3768159	0.0029117	2.91E-03	8.72E-04	3.30E-04
3957	456803.2	3768169	0.0028536	2.85E-03	8.55E-04	3.24E-04
3958	456803.3	3768178	0.0027954	2.80E-03	8.37E-04	3.17E-04
3959	456803.3	3768188	0.0027382	2.74E-03	8.20E-04	3.11E-04
3960	456803.4	3768198	0.0026818	2.68E-03	8.03E-04	3.04E-04
3961	456803.5	3768207	0.0026264	2.63E-03	7.87E-04	2.98E-04
3962	456803.6	3768217	0.0025721	2.57E-03	7.70E-04	2.92E-04
3963	456803.6	3768227	0.0025188	2.52E-03	7.54E-04	2.86E-04
3964	456803.7	3768236	0.0024668	2.47E-03	7.39E-04	2.80E-04
3965	456765.8	3768026	0.003401	3.40E-03	1.02E-03	3.86E-04
3966	456769.4	3768017	0.0034854	3.49E-03	1.04E-03	3.95E-04
3967	456773	3768008	0.0035707	3.57E-03	1.07E-03	4.05E-04
3968	456776.6	3767999	0.0036577	3.66E-03	1.10E-03	4.15E-04
3969	456780.2	3767990	0.0037464	3.75E-03	1.12E-03	4.25E-04
3970	456783.8	3767981	0.0038363	3.84E-03	1.15E-03	4.35E-04
3971	456787.4	3767973	0.0039266	3.93E-03	1.18E-03	4.45E-04
3972	456791	3767964	0.004018	4.02E-03	1.20E-03	4.56E-04
3973	456794.6	3767955	0.0041106	4.11E-03	1.23E-03	4.66E-04
3974	456798.2	3767946	0.0042052	4.21E-03	1.26E-03	4.77E-04
3975	456801.8	3767937	0.0043	4.30E-03	1.29E-03	4.88E-04
3976	456805.4	3767928	0.0043948	4.39E-03	1.32E-03	4.99E-04
3977	456809	3767919	0.0044909	4.49E-03	1.35E-03	5.10E-04
3978	456812.6	3767911	0.0045873	4.59E-03	1.37E-03	5.20E-04
3979	456816.2	3767902	0.0046841	4.68E-03	1.40E-03	5.31E-04
3980	456819.8	3767893	0.0047807	4.78E-03	1.43E-03	5.42E-04
3981	456823.4	3767884	0.0048772	4.88E-03	1.46E-03	5.53E-04
3982	456827	3767875	0.0049734	4.97E-03	1.49E-03	5.64E-04
3983	456830.6	3767866	0.005069	5.07E-03	1.52E-03	5.75E-04
3984	456834.2	3767857	0.0051628	5.16E-03	1.55E-03	5.86E-04
3985	456837.8	3767849	0.0052561	5.26E-03	1.57E-03	5.96E-04
3986	456841.4	3767840	0.0053488	5.35E-03	1.60E-03	6.07E-04
3987	456845	3767831	0.00544	5.44E-03	1.63E-03	6.17E-04
3988	456848.6	3767822	0.0055284	5.53E-03	1.66E-03	6.27E-04
3989	456852.3	3767813	0.0056151	5.62E-03	1.68E-03	6.37E-04
3990	456855.9	3767804	0.0057007	5.70E-03	1.71E-03	6.47E-04
3991	456859.5	3767795	0.0057853	5.79E-03	1.73E-03	6.56E-04
3992	456863.1	3767787	0.0058672	5.87E-03	1.76E-03	6.66E-04

3993	456866.7	3767778	0.005946	5.95E-03	1.78E-03	6.75E-04
3994	456870.3	3767769	0.0060233	6.02E-03	1.80E-03	6.83E-04
3995	456873.9	3767760	0.0060981	6.10E-03	1.83E-03	6.92E-04
3996	456877.5	3767751	0.00617	6.17E-03	1.85E-03	7.00E-04
3997	456881.1	3767742	0.0062392	6.24E-03	1.87E-03	7.08E-04
3998	456884.7	3767733	0.006305	6.31E-03	1.89E-03	7.15E-04
3999	456888.3	3767725	0.0063678	6.37E-03	1.91E-03	7.22E-04
4000	456920.7	3767645	0.0067616	6.76E-03	2.03E-03	7.67E-04
4001	456933.2	3767632	0.0069191	6.92E-03	2.07E-03	7.85E-04
4002	456942	3767629	0.00705	7.05E-03	2.11E-03	8.00E-04
4003	456950.8	3767625	0.00718	7.18E-03	2.15E-03	8.15E-04
4004	456959.6	3767621	0.0073094	7.31E-03	2.19E-03	8.29E-04
4005	456968.4	3767618	0.0074376	7.44E-03	2.23E-03	8.44E-04
4006	456977.3	3767614	0.0075665	7.57E-03	2.27E-03	8.58E-04
4007	456762.2	3768034	0.0033182	3.32E-03	9.94E-04	3.76E-04
4008	456762.2	3768044	0.0032646	3.26E-03	9.78E-04	3.70E-04
4009	456762.3	3768054	0.003211	3.21E-03	9.62E-04	3.64E-04
4010	456762.4	3768063	0.0031574	3.16E-03	9.46E-04	3.58E-04
4011	456762.4	3768073	0.0031037	3.10E-03	9.30E-04	3.52E-04
4012	456762.5	3768083	0.0030509	3.05E-03	9.14E-04	3.46E-04
4013	456762.6	3768092	0.0029983	3.00E-03	8.98E-04	3.40E-04
4014	456762.7	3768102	0.0029459	2.95E-03	8.82E-04	3.34E-04
4015	456762.7	3768111	0.0028932	2.89E-03	8.67E-04	3.28E-04
4016	456762.8	3768121	0.0028404	2.84E-03	8.51E-04	3.22E-04
4017	456762.9	3768131	0.002788	2.79E-03	8.35E-04	3.16E-04
4018	456763	3768140	0.0027361	2.74E-03	8.20E-04	3.10E-04
4019	456763	3768150	0.0026849	2.68E-03	8.04E-04	3.05E-04
4020	456763.1	3768160	0.0026342	2.63E-03	7.89E-04	2.99E-04
4021	456763.2	3768169	0.0025842	2.58E-03	7.74E-04	2.93E-04
4022	456763.3	3768179	0.0025354	2.54E-03	7.59E-04	2.88E-04
4023	456763.3	3768188	0.0024872	2.49E-03	7.45E-04	2.82E-04
4024	456763.4	3768198	0.0024396	2.44E-03	7.31E-04	2.77E-04
4025	456763.5	3768208	0.0023922	2.39E-03	7.16E-04	2.71E-04
4026	456763.6	3768217	0.0023456	2.35E-03	7.03E-04	2.66E-04
4027	456763.6	3768227	0.0022997	2.30E-03	6.89E-04	2.61E-04
4028	456763.7	3768236	0.0022548	2.25E-03	6.75E-04	2.56E-04
4029	456725.8	3768026	0.0030591	3.06E-03	9.16E-04	3.47E-04
4030	456729.4	3768017	0.0031317	3.13E-03	9.38E-04	3.55E-04
4031	456733	3768008	0.0032047	3.20E-03	9.60E-04	3.64E-04
4032	456736.6	3767999	0.0032787	3.28E-03	9.82E-04	3.72E-04
4033	456740.3	3767990	0.0033539	3.35E-03	1.00E-03	3.81E-04
4034	456743.9	3767981	0.0034309	3.43E-03	1.03E-03	3.89E-04
4035	456747.5	3767973	0.0035096	3.51E-03	1.05E-03	3.98E-04
4036	456751.1	3767964	0.0035895	3.59E-03	1.08E-03	4.07E-04
4037	456754.7	3767955	0.0036702	3.67E-03	1.10E-03	4.16E-04
4038	456758.4	3767946	0.0037518	3.75E-03	1.12E-03	4.26E-04
4039	456762	3767937	0.0038343	3.83E-03	1.15E-03	4.35E-04

4040	456765.6	3767928	0.0039174	3.92E-03	1.17E-03	4.44E-04
4041	456769.2	3767919	0.0040011	4.00E-03	1.20E-03	4.54E-04
4042	456772.8	3767910	0.0040852	4.09E-03	1.22E-03	4.63E-04
4043	456776.5	3767901	0.0041697	4.17E-03	1.25E-03	4.73E-04
4044	456780.1	3767892	0.0042542	4.25E-03	1.27E-03	4.83E-04
4045	456783.7	3767884	0.0043388	4.34E-03	1.30E-03	4.92E-04
4046	456787.3	3767875	0.0044238	4.42E-03	1.32E-03	5.02E-04
4047	456790.9	3767866	0.0045086	4.51E-03	1.35E-03	5.12E-04
4048	456794.6	3767857	0.0045908	4.59E-03	1.38E-03	5.21E-04
4049	456798.2	3767848	0.0046725	4.67E-03	1.40E-03	5.30E-04
4050	456801.8	3767839	0.0047534	4.75E-03	1.42E-03	5.39E-04
4051	456805.4	3767830	0.004835	4.83E-03	1.45E-03	5.49E-04
4052	456809	3767821	0.0049164	4.92E-03	1.47E-03	5.58E-04
4053	456812.7	3767812	0.0049967	5.00E-03	1.50E-03	5.67E-04
4054	456816.3	3767804	0.0050759	5.08E-03	1.52E-03	5.76E-04
4055	456819.9	3767795	0.0051536	5.15E-03	1.54E-03	5.85E-04
4056	456823.5	3767786	0.0052299	5.23E-03	1.57E-03	5.93E-04
4057	456827.1	3767777	0.0053045	5.30E-03	1.59E-03	6.02E-04
4058	456830.8	3767768	0.0053773	5.38E-03	1.61E-03	6.10E-04
4059	456834.4	3767759	0.0054482	5.45E-03	1.63E-03	6.18E-04
4060	456838	3767750	0.005517	5.52E-03	1.65E-03	6.26E-04
4061	456841.6	3767741	0.0055833	5.58E-03	1.67E-03	6.33E-04
4062	456845.2	3767732	0.0056473	5.65E-03	1.69E-03	6.41E-04
4063	456848.9	3767724	0.0057096	5.71E-03	1.71E-03	6.48E-04
4064	456852.5	3767715	0.0057686	5.77E-03	1.73E-03	6.54E-04
4065	456856.1	3767706	0.0058226	5.82E-03	1.74E-03	6.61E-04
4066	456859.7	3767697	0.0058737	5.87E-03	1.76E-03	6.66E-04
4067	456863.3	3767688	0.0059219	5.92E-03	1.77E-03	6.72E-04
4068	456867	3767679	0.0059696	5.97E-03	1.79E-03	6.77E-04
4069	456870.6	3767670	0.0060149	6.01E-03	1.80E-03	6.82E-04
4070	456874.2	3767661	0.0060572	6.06E-03	1.81E-03	6.87E-04
4071	456877.8	3767652	0.0060964	6.10E-03	1.83E-03	6.92E-04
4072	456881.4	3767643	0.0061326	6.13E-03	1.84E-03	6.96E-04
4073	456885.1	3767635	0.0061656	6.17E-03	1.85E-03	7.00E-04
4074	456888.7	3767626	0.0061954	6.20E-03	1.86E-03	7.03E-04
4075	456722.2	3768035	0.0029878	2.99E-03	8.95E-04	3.39E-04
4076	456722.2	3768044	0.0029415	2.94E-03	8.81E-04	3.34E-04
4077	456722.3	3768054	0.0028952	2.90E-03	8.67E-04	3.28E-04
4078	456722.4	3768064	0.0028488	2.85E-03	8.53E-04	3.23E-04
4079	456722.4	3768073	0.0028025	2.80E-03	8.39E-04	3.18E-04
4080	456722.5	3768083	0.0027569	2.76E-03	8.26E-04	3.13E-04
4081	456722.6	3768093	0.0027115	2.71E-03	8.12E-04	3.08E-04
4082	456722.7	3768102	0.0026664	2.67E-03	7.99E-04	3.03E-04
4083	456722.7	3768112	0.0026211	2.62E-03	7.85E-04	2.97E-04
4084	456722.8	3768121	0.002576	2.58E-03	7.72E-04	2.92E-04
4085	456722.9	3768131	0.0025312	2.53E-03	7.58E-04	2.87E-04
4086	456723	3768141	0.0024867	2.49E-03	7.45E-04	2.82E-04

4087	456723	3768150	0.0024425	2.44E-03	7.32E-04	2.77E-04
4088	456723.1	3768160	0.0023988	2.40E-03	7.18E-04	2.72E-04
4089	456723.2	3768169	0.0023557	2.36E-03	7.06E-04	2.67E-04
4090	456723.3	3768179	0.0023136	2.31E-03	6.93E-04	2.62E-04
4091	456723.3	3768189	0.0022721	2.27E-03	6.81E-04	2.58E-04
4092	456723.4	3768198	0.0022309	2.23E-03	6.68E-04	2.53E-04
4093	456723.5	3768208	0.0021901	2.19E-03	6.56E-04	2.48E-04
4094	456723.6	3768218	0.0021499	2.15E-03	6.44E-04	2.44E-04
4095	456723.6	3768227	0.0021103	2.11E-03	6.32E-04	2.39E-04
4096	456723.7	3768237	0.0020714	2.07E-03	6.20E-04	2.35E-04
4097	456685.7	3768026	0.0027668	2.77E-03	8.29E-04	3.14E-04
4098	456689.3	3768018	0.0028285	2.83E-03	8.47E-04	3.21E-04
4099	456692.8	3768009	0.002891	2.89E-03	8.66E-04	3.28E-04
4100	456696.4	3768000	0.0029544	2.95E-03	8.85E-04	3.35E-04
4101	456700	3767991	0.0030184	3.02E-03	9.04E-04	3.42E-04
4102	456703.5	3767983	0.0030838	3.08E-03	9.24E-04	3.50E-04
4103	456707.1	3767974	0.0031507	3.15E-03	9.44E-04	3.57E-04
4104	456710.7	3767965	0.0032185	3.22E-03	9.64E-04	3.65E-04
4105	456714.2	3767956	0.0032873	3.29E-03	9.85E-04	3.73E-04
4106	456717.8	3767948	0.0033563	3.36E-03	1.01E-03	3.81E-04
4107	456721.4	3767939	0.0034265	3.43E-03	1.03E-03	3.89E-04
4108	456724.9	3767930	0.0034975	3.50E-03	1.05E-03	3.97E-04
4109	456728.5	3767921	0.0035688	3.57E-03	1.07E-03	4.05E-04
4110	456732.1	3767913	0.0036398	3.64E-03	1.09E-03	4.13E-04
4111	456735.6	3767904	0.0037113	3.71E-03	1.11E-03	4.21E-04
4112	456739.2	3767895	0.0037838	3.78E-03	1.13E-03	4.29E-04
4113	456742.7	3767886	0.0038568	3.86E-03	1.16E-03	4.38E-04
4114	456746.3	3767877	0.0039297	3.93E-03	1.18E-03	4.46E-04
4115	456749.9	3767869	0.004002	4.00E-03	1.20E-03	4.54E-04
4116	456753.4	3767860	0.0040751	4.08E-03	1.22E-03	4.62E-04
4117	456757	3767851	0.0041482	4.15E-03	1.24E-03	4.71E-04
4118	456760.6	3767842	0.0042212	4.22E-03	1.26E-03	4.79E-04
4119	456764.1	3767834	0.0042937	4.29E-03	1.29E-03	4.87E-04
4120	456767.7	3767825	0.0043658	4.37E-03	1.31E-03	4.95E-04
4121	456771.3	3767816	0.0044374	4.44E-03	1.33E-03	5.03E-04
4122	456774.8	3767807	0.0045082	4.51E-03	1.35E-03	5.11E-04
4123	456778.4	3767799	0.0045783	4.58E-03	1.37E-03	5.19E-04
4124	456782	3767790	0.0046474	4.65E-03	1.39E-03	5.27E-04
4125	456785.5	3767781	0.0047156	4.72E-03	1.41E-03	5.35E-04
4126	456789.1	3767772	0.0047825	4.78E-03	1.43E-03	5.43E-04
4127	456792.6	3767764	0.0048481	4.85E-03	1.45E-03	5.50E-04
4128	456796.2	3767755	0.0049125	4.91E-03	1.47E-03	5.57E-04
4129	456799.8	3767746	0.0049753	4.98E-03	1.49E-03	5.64E-04
4130	456803.3	3767737	0.0050344	5.03E-03	1.51E-03	5.71E-04
4131	456806.9	3767729	0.0050916	5.09E-03	1.53E-03	5.78E-04
4132	456810.5	3767720	0.0051471	5.15E-03	1.54E-03	5.84E-04
4133	456814	3767711	0.005202	5.20E-03	1.56E-03	5.90E-04

4134	456817.6	3767702	0.005256	5.26E-03	1.57E-03	5.96E-04
4135	456821.2	3767694	0.0053079	5.31E-03	1.59E-03	6.02E-04
4136	456824.7	3767685	0.0053576	5.36E-03	1.60E-03	6.08E-04
4137	456828.3	3767676	0.0054053	5.41E-03	1.62E-03	6.13E-04
4138	456831.9	3767667	0.0054507	5.45E-03	1.63E-03	6.18E-04
4139	456835.4	3767659	0.0054938	5.49E-03	1.65E-03	6.23E-04
4140	456839	3767650	0.0055337	5.53E-03	1.66E-03	6.28E-04
4141	456842.6	3767641	0.0055718	5.57E-03	1.67E-03	6.32E-04
4142	456846.1	3767632	0.0056078	5.61E-03	1.68E-03	6.36E-04
4143	456849.7	3767624	0.0056413	5.64E-03	1.69E-03	6.40E-04
4144	456853.2	3767615	0.0056694	5.67E-03	1.70E-03	6.43E-04
4145	456682.2	3768035	0.0027065	2.71E-03	8.11E-04	3.07E-04
4146	456682.2	3768045	0.0026668	2.67E-03	7.99E-04	3.03E-04
4147	456682.3	3768054	0.0026266	2.63E-03	7.87E-04	2.98E-04
4148	456682.4	3768064	0.0025864	2.59E-03	7.75E-04	2.93E-04
4149	456682.4	3768074	0.0025462	2.55E-03	7.63E-04	2.89E-04
4150	456682.5	3768083	0.0025061	2.51E-03	7.51E-04	2.84E-04
4151	456682.6	3768093	0.0024662	2.47E-03	7.39E-04	2.80E-04
4152	456682.7	3768102	0.0024265	2.43E-03	7.27E-04	2.75E-04
4153	456682.7	3768112	0.0023874	2.39E-03	7.15E-04	2.71E-04
4154	456682.8	3768122	0.002349	2.35E-03	7.04E-04	2.67E-04
4155	456682.9	3768131	0.0023107	2.31E-03	6.92E-04	2.62E-04
4156	456683	3768141	0.0022725	2.27E-03	6.81E-04	2.58E-04
4157	456683	3768151	0.0022341	2.23E-03	6.69E-04	2.53E-04
4158	456683.1	3768160	0.0021962	2.20E-03	6.58E-04	2.49E-04
4159	456683.2	3768170	0.0021587	2.16E-03	6.47E-04	2.45E-04
4160	456683.3	3768179	0.0021217	2.12E-03	6.35E-04	2.41E-04
4161	456683.3	3768189	0.002085	2.09E-03	6.24E-04	2.37E-04
4162	456683.4	3768199	0.002049	2.05E-03	6.14E-04	2.32E-04
4163	456683.5	3768208	0.002014	2.01E-03	6.03E-04	2.28E-04
4164	456683.6	3768218	0.0019794	1.98E-03	5.93E-04	2.25E-04
4165	456683.6	3768227	0.0019452	1.95E-03	5.83E-04	2.21E-04
4166	456683.7	3768237	0.0019112	1.91E-03	5.72E-04	2.17E-04
4167	456645.7	3768027	0.002517	2.52E-03	7.54E-04	2.86E-04
4168	456649.3	3768018	0.0025708	2.57E-03	7.70E-04	2.92E-04
4169	456652.9	3768009	0.0026256	2.63E-03	7.86E-04	2.98E-04
4170	456656.5	3768000	0.0026814	2.68E-03	8.03E-04	3.04E-04
4171	456660.1	3767991	0.0027382	2.74E-03	8.20E-04	3.11E-04
4172	456663.6	3767983	0.0027954	2.80E-03	8.37E-04	3.17E-04
4173	456667.2	3767974	0.0028529	2.85E-03	8.54E-04	3.24E-04
4174	456670.8	3767965	0.0029112	2.91E-03	8.72E-04	3.30E-04
4175	456674.4	3767956	0.0029708	2.97E-03	8.90E-04	3.37E-04
4176	456678	3767947	0.0030318	3.03E-03	9.08E-04	3.44E-04
4177	456681.5	3767939	0.0030932	3.09E-03	9.26E-04	3.51E-04
4178	456685.1	3767930	0.0031549	3.15E-03	9.45E-04	3.58E-04
4179	456688.7	3767921	0.0032175	3.22E-03	9.64E-04	3.65E-04
4180	456692.3	3767912	0.0032809	3.28E-03	9.83E-04	3.72E-04

4181	456695.9	3767903	0.0033447	3.34E-03	1.00E-03	3.79E-04
4182	456699.4	3767895	0.0034089	3.41E-03	1.02E-03	3.87E-04
4183	456703	3767886	0.0034735	3.47E-03	1.04E-03	3.94E-04
4184	456706.6	3767877	0.0035383	3.54E-03	1.06E-03	4.01E-04
4185	456710.2	3767868	0.0036034	3.60E-03	1.08E-03	4.09E-04
4186	456713.8	3767859	0.0036685	3.67E-03	1.10E-03	4.16E-04
4187	456717.3	3767851	0.0037338	3.73E-03	1.12E-03	4.24E-04
4188	456720.9	3767842	0.0037989	3.80E-03	1.14E-03	4.31E-04
4189	456724.5	3767833	0.0038638	3.86E-03	1.16E-03	4.38E-04
4190	456728.1	3767824	0.0039286	3.93E-03	1.18E-03	4.46E-04
4191	456731.7	3767815	0.0039931	3.99E-03	1.20E-03	4.53E-04
4192	456735.3	3767807	0.0040573	4.06E-03	1.22E-03	4.60E-04
4193	456738.8	3767798	0.0041197	4.12E-03	1.23E-03	4.67E-04
4194	456742.4	3767789	0.0041818	4.18E-03	1.25E-03	4.74E-04
4195	456746	3767780	0.0042437	4.24E-03	1.27E-03	4.81E-04
4196	456749.6	3767772	0.0043049	4.30E-03	1.29E-03	4.88E-04
4197	456753.2	3767763	0.0043646	4.36E-03	1.31E-03	4.95E-04
4198	456756.7	3767754	0.0044229	4.42E-03	1.32E-03	5.02E-04
4199	456760.3	3767745	0.00448	4.48E-03	1.34E-03	5.08E-04
4200	456763.9	3767736	0.0045379	4.54E-03	1.36E-03	5.15E-04
4201	456767.5	3767728	0.004594	4.59E-03	1.38E-03	5.21E-04
4202	456771.1	3767719	0.0046484	4.65E-03	1.39E-03	5.27E-04
4203	456774.6	3767710	0.0047015	4.70E-03	1.41E-03	5.33E-04
4204	456778.2	3767701	0.0047535	4.75E-03	1.42E-03	5.39E-04
4205	456781.8	3767692	0.0048038	4.80E-03	1.44E-03	5.45E-04
4206	456785.4	3767684	0.0048525	4.85E-03	1.45E-03	5.51E-04
4207	456789	3767675	0.0048995	4.90E-03	1.47E-03	5.56E-04
4208	456792.5	3767666	0.0049449	4.94E-03	1.48E-03	5.61E-04
4209	456796.1	3767657	0.0049885	4.99E-03	1.49E-03	5.66E-04
4210	456799.7	3767648	0.005028	5.03E-03	1.51E-03	5.70E-04
4211	456803.3	3767640	0.0050653	5.07E-03	1.52E-03	5.75E-04
4212	456806.9	3767631	0.0051006	5.10E-03	1.53E-03	5.79E-04
4213	456810.4	3767622	0.005135	5.13E-03	1.54E-03	5.83E-04
4214	456814	3767613	0.0051685	5.17E-03	1.55E-03	5.86E-04
4215	456642.2	3768035	0.002464	2.46E-03	7.38E-04	2.80E-04
4216	456642.2	3768045	0.0024289	2.43E-03	7.27E-04	2.76E-04
4217	456642.3	3768055	0.0023945	2.39E-03	7.17E-04	2.72E-04
4218	456642.4	3768064	0.00236	2.36E-03	7.07E-04	2.68E-04
4219	456642.5	3768074	0.0023257	2.33E-03	6.97E-04	2.64E-04
4220	456642.5	3768084	0.0022908	2.29E-03	6.86E-04	2.60E-04
4221	456642.6	3768093	0.002256	2.26E-03	6.76E-04	2.56E-04
4222	456642.7	3768103	0.0022213	2.22E-03	6.65E-04	2.52E-04
4223	456642.7	3768112	0.0021869	2.19E-03	6.55E-04	2.48E-04
4224	456642.8	3768122	0.0021527	2.15E-03	6.45E-04	2.44E-04
4225	456642.9	3768132	0.0021188	2.12E-03	6.35E-04	2.40E-04
4226	456643	3768141	0.0020854	2.09E-03	6.25E-04	2.37E-04
4227	456643	3768151	0.0020525	2.05E-03	6.15E-04	2.33E-04

4228	456643.1	3768160	0.00202	2.02E-03	6.05E-04	2.29E-04
4229	456643.2	3768170	0.0019874	1.99E-03	5.95E-04	2.25E-04
4230	456643.3	3768180	0.001955	1.96E-03	5.86E-04	2.22E-04
4231	456643.3	3768189	0.0019229	1.92E-03	5.76E-04	2.18E-04
4232	456643.4	3768199	0.0018914	1.89E-03	5.67E-04	2.15E-04
4233	456643.5	3768209	0.0018607	1.86E-03	5.57E-04	2.11E-04
4234	456643.6	3768218	0.0018303	1.83E-03	5.48E-04	2.08E-04
4235	456643.6	3768228	0.0018002	1.80E-03	5.39E-04	2.04E-04
4236	456643.7	3768237	0.0017703	1.77E-03	5.30E-04	2.01E-04
4237	456605.8	3768027	0.0023029	2.30E-03	6.90E-04	2.61E-04
4238	456609.3	3768018	0.0023503	2.35E-03	7.04E-04	2.67E-04
4239	456612.9	3768009	0.002398	2.40E-03	7.18E-04	2.72E-04
4240	456616.5	3768000	0.0024464	2.45E-03	7.33E-04	2.78E-04
4241	456620.1	3767992	0.002496	2.50E-03	7.48E-04	2.83E-04
4242	456623.7	3767983	0.0025464	2.55E-03	7.63E-04	2.89E-04
4243	456627.3	3767974	0.0025977	2.60E-03	7.78E-04	2.95E-04
4244	456630.9	3767965	0.0026494	2.65E-03	7.94E-04	3.01E-04
4245	456634.5	3767956	0.0027016	2.70E-03	8.09E-04	3.07E-04
4246	456638.1	3767947	0.0027551	2.76E-03	8.25E-04	3.13E-04
4247	456641.7	3767939	0.0028094	2.81E-03	8.41E-04	3.19E-04
4248	456645.3	3767930	0.0028642	2.86E-03	8.58E-04	3.25E-04
4249	456648.9	3767921	0.0029196	2.92E-03	8.74E-04	3.31E-04
4250	456652.5	3767912	0.0029755	2.98E-03	8.91E-04	3.38E-04
4251	456656.1	3767903	0.003032	3.03E-03	9.08E-04	3.44E-04
4252	456659.7	3767894	0.0030888	3.09E-03	9.25E-04	3.50E-04
4253	456663.3	3767886	0.0031458	3.15E-03	9.42E-04	3.57E-04
4254	456666.9	3767877	0.0032034	3.20E-03	9.59E-04	3.63E-04
4255	456670.5	3767868	0.0032616	3.26E-03	9.77E-04	3.70E-04
4256	456674.1	3767859	0.0033187	3.32E-03	9.94E-04	3.77E-04
4257	456677.7	3767850	0.003376	3.38E-03	1.01E-03	3.83E-04
4258	456681.2	3767841	0.0034337	3.43E-03	1.03E-03	3.90E-04
4259	456684.8	3767833	0.0034917	3.49E-03	1.05E-03	3.96E-04
4260	456688.4	3767824	0.0035494	3.55E-03	1.06E-03	4.03E-04
4261	456692	3767815	0.0036067	3.61E-03	1.08E-03	4.09E-04
4262	456695.6	3767806	0.0036633	3.66E-03	1.10E-03	4.16E-04
4263	456699.2	3767797	0.0037208	3.72E-03	1.11E-03	4.22E-04
4264	456702.8	3767788	0.0037782	3.78E-03	1.13E-03	4.29E-04
4265	456706.4	3767780	0.0038348	3.83E-03	1.15E-03	4.35E-04
4266	456710	3767771	0.0038908	3.89E-03	1.17E-03	4.41E-04
4267	456713.6	3767762	0.0039464	3.95E-03	1.18E-03	4.48E-04
4268	456717.2	3767753	0.0040013	4.00E-03	1.20E-03	4.54E-04
4269	456720.8	3767744	0.0040555	4.06E-03	1.21E-03	4.60E-04
4270	456724.4	3767735	0.0041088	4.11E-03	1.23E-03	4.66E-04
4271	456728	3767727	0.0041612	4.16E-03	1.25E-03	4.72E-04
4272	456731.6	3767718	0.0042127	4.21E-03	1.26E-03	4.78E-04
4273	456735.2	3767709	0.0042631	4.26E-03	1.28E-03	4.84E-04
4274	456738.8	3767700	0.0043124	4.31E-03	1.29E-03	4.89E-04

4275	456742.4	3767691	0.0043605	4.36E-03	1.31E-03	4.95E-04
4276	456746	3767682	0.0044066	4.41E-03	1.32E-03	5.00E-04
4277	456749.6	3767674	0.0044501	4.45E-03	1.33E-03	5.05E-04
4278	456753.2	3767665	0.0044923	4.49E-03	1.35E-03	5.10E-04
4279	456756.7	3767656	0.004533	4.53E-03	1.36E-03	5.14E-04
4280	456760.3	3767647	0.0045744	4.57E-03	1.37E-03	5.19E-04
4281	456763.9	3767638	0.0046143	4.61E-03	1.38E-03	5.24E-04
4282	456767.5	3767629	0.0046522	4.65E-03	1.39E-03	5.28E-04
4283	456771.1	3767621	0.0046884	4.69E-03	1.40E-03	5.32E-04
4284	456602.2	3768036	0.0022564	2.26E-03	6.76E-04	2.56E-04
4285	456602.2	3768045	0.0022254	2.23E-03	6.67E-04	2.52E-04
4286	456602.3	3768055	0.0021944	2.19E-03	6.57E-04	2.49E-04
4287	456602.4	3768065	0.0021635	2.16E-03	6.48E-04	2.45E-04
4288	456602.5	3768074	0.0021327	2.13E-03	6.39E-04	2.42E-04
4289	456602.5	3768084	0.0021023	2.10E-03	6.30E-04	2.39E-04
4290	456602.6	3768093	0.0020723	2.07E-03	6.21E-04	2.35E-04
4291	456602.7	3768103	0.0020424	2.04E-03	6.12E-04	2.32E-04
4292	456602.7	3768113	0.0020123	2.01E-03	6.03E-04	2.28E-04
4293	456602.8	3768122	0.0019824	1.98E-03	5.94E-04	2.25E-04
4294	456602.9	3768132	0.0019526	1.95E-03	5.85E-04	2.22E-04
4295	456603	3768142	0.0019231	1.92E-03	5.76E-04	2.18E-04
4296	456603	3768151	0.0018937	1.89E-03	5.67E-04	2.15E-04
4297	456603.1	3768161	0.0018645	1.86E-03	5.58E-04	2.12E-04
4298	456603.2	3768170	0.0018359	1.84E-03	5.50E-04	2.08E-04
4299	456603.3	3768180	0.0018079	1.81E-03	5.41E-04	2.05E-04
4300	456603.3	3768190	0.0017802	1.78E-03	5.33E-04	2.02E-04
4301	456603.4	3768199	0.0017527	1.75E-03	5.25E-04	1.99E-04
4302	456603.5	3768209	0.0017255	1.73E-03	5.17E-04	1.96E-04
4303	456603.6	3768218	0.0016987	1.70E-03	5.09E-04	1.93E-04
4304	456603.6	3768228	0.0016721	1.67E-03	5.01E-04	1.90E-04
4305	456603.7	3768238	0.0016456	1.65E-03	4.93E-04	1.87E-04
4306	456565.8	3768027	0.0021157	2.12E-03	6.34E-04	2.40E-04
4307	456569.4	3768018	0.0021579	2.16E-03	6.46E-04	2.45E-04
4308	456573	3768009	0.0022004	2.20E-03	6.59E-04	2.50E-04
4309	456576.6	3768001	0.0022433	2.24E-03	6.72E-04	2.55E-04
4310	456580.2	3767992	0.0022867	2.29E-03	6.85E-04	2.59E-04
4311	456583.8	3767983	0.002331	2.33E-03	6.98E-04	2.64E-04
4312	456587.4	3767974	0.0023764	2.38E-03	7.12E-04	2.70E-04
4313	456591	3767965	0.0024225	2.42E-03	7.26E-04	2.75E-04
4314	456594.6	3767956	0.0024693	2.47E-03	7.40E-04	2.80E-04
4315	456598.2	3767947	0.0025166	2.52E-03	7.54E-04	2.86E-04
4316	456601.8	3767939	0.0025646	2.56E-03	7.68E-04	2.91E-04
4317	456605.5	3767930	0.0026132	2.61E-03	7.83E-04	2.96E-04
4318	456609.1	3767921	0.0026617	2.66E-03	7.97E-04	3.02E-04
4319	456612.7	3767912	0.0027105	2.71E-03	8.12E-04	3.08E-04
4320	456616.3	3767903	0.00276	2.76E-03	8.27E-04	3.13E-04
4321	456619.9	3767894	0.0028101	2.81E-03	8.42E-04	3.19E-04

4322	456623.5	3767885	0.0028609	2.86E-03	8.57E-04	3.25E-04
4323	456627.1	3767876	0.0029117	2.91E-03	8.72E-04	3.30E-04
4324	456630.7	3767868	0.0029626	2.96E-03	8.87E-04	3.36E-04
4325	456634.3	3767859	0.0030142	3.01E-03	9.03E-04	3.42E-04
4326	456637.9	3767850	0.0030662	3.07E-03	9.18E-04	3.48E-04
4327	456641.5	3767841	0.0031183	3.12E-03	9.34E-04	3.54E-04
4328	456645.1	3767832	0.0031705	3.17E-03	9.50E-04	3.60E-04
4329	456648.8	3767823	0.0032228	3.22E-03	9.65E-04	3.66E-04
4330	456652.4	3767814	0.003275	3.28E-03	9.81E-04	3.72E-04
4331	456656	3767806	0.0033272	3.33E-03	9.97E-04	3.77E-04
4332	456659.6	3767797	0.0033786	3.38E-03	1.01E-03	3.83E-04
4333	456663.2	3767788	0.0034304	3.43E-03	1.03E-03	3.89E-04
4334	456666.8	3767779	0.0034822	3.48E-03	1.04E-03	3.95E-04
4335	456670.4	3767770	0.0035329	3.53E-03	1.06E-03	4.01E-04
4336	456674	3767761	0.0035826	3.58E-03	1.07E-03	4.06E-04
4337	456677.6	3767752	0.0036322	3.63E-03	1.09E-03	4.12E-04
4338	456681.2	3767743	0.0036818	3.68E-03	1.10E-03	4.18E-04
4339	456684.8	3767735	0.0037317	3.73E-03	1.12E-03	4.23E-04
4340	456688.4	3767726	0.003781	3.78E-03	1.13E-03	4.29E-04
4341	456692.1	3767717	0.0038296	3.83E-03	1.15E-03	4.34E-04
4342	456695.7	3767708	0.0038762	3.88E-03	1.16E-03	4.40E-04
4343	456699.3	3767699	0.0039212	3.92E-03	1.17E-03	4.45E-04
4344	456702.9	3767690	0.0039656	3.97E-03	1.19E-03	4.50E-04
4345	456706.5	3767681	0.0040098	4.01E-03	1.20E-03	4.55E-04
4346	456710.1	3767673	0.0040533	4.05E-03	1.21E-03	4.60E-04
4347	456713.7	3767664	0.0040953	4.10E-03	1.23E-03	4.65E-04
4348	456717.3	3767655	0.0041358	4.14E-03	1.24E-03	4.69E-04
4349	456720.9	3767646	0.0041759	4.18E-03	1.25E-03	4.74E-04
4350	456724.5	3767637	0.0042147	4.21E-03	1.26E-03	4.78E-04
4351	456728.1	3767628	0.0042524	4.25E-03	1.27E-03	4.82E-04
4352	456731.7	3767619	0.0042873	4.29E-03	1.28E-03	4.86E-04
4353	456562.2	3768036	0.0020744	2.07E-03	6.21E-04	2.35E-04
4354	456562.2	3768046	0.0020469	2.05E-03	6.13E-04	2.32E-04
4355	456562.3	3768055	0.0020195	2.02E-03	6.05E-04	2.29E-04
4356	456562.4	3768065	0.0019922	1.99E-03	5.97E-04	2.26E-04
4357	456562.5	3768074	0.001965	1.96E-03	5.89E-04	2.23E-04
4358	456562.5	3768084	0.0019381	1.94E-03	5.80E-04	2.20E-04
4359	456562.6	3768094	0.0019115	1.91E-03	5.73E-04	2.17E-04
4360	456562.7	3768103	0.0018849	1.88E-03	5.65E-04	2.14E-04
4361	456562.7	3768113	0.0018584	1.86E-03	5.57E-04	2.11E-04
4362	456562.8	3768123	0.0018322	1.83E-03	5.49E-04	2.08E-04
4363	456562.9	3768132	0.001806	1.81E-03	5.41E-04	2.05E-04
4364	456563	3768142	0.00178	1.78E-03	5.33E-04	2.02E-04
4365	456563	3768151	0.0017544	1.75E-03	5.25E-04	1.99E-04
4366	456563.1	3768161	0.0017289	1.73E-03	5.18E-04	1.96E-04
4367	456563.2	3768171	0.0017037	1.70E-03	5.10E-04	1.93E-04
4368	456563.3	3768180	0.0016789	1.68E-03	5.03E-04	1.90E-04

4369	456563.3	3768190	0.0016542	1.65E-03	4.95E-04	1.88E-04
4370	456563.4	3768200	0.0016299	1.63E-03	4.88E-04	1.85E-04
4371	456563.5	3768209	0.0016058	1.61E-03	4.81E-04	1.82E-04
4372	456563.6	3768219	0.0015819	1.58E-03	4.74E-04	1.79E-04
4373	456563.6	3768228	0.0015584	1.56E-03	4.67E-04	1.77E-04
4374	456563.7	3768238	0.0015349	1.53E-03	4.60E-04	1.74E-04
4375	456525.8	3768027	0.0019517	1.95E-03	5.85E-04	2.21E-04
4376	456529.4	3768019	0.0019888	1.99E-03	5.96E-04	2.26E-04
4377	456533	3768010	0.0020269	2.03E-03	6.07E-04	2.30E-04
4378	456536.6	3768001	0.0020657	2.07E-03	6.19E-04	2.34E-04
4379	456540.3	3767992	0.0021048	2.10E-03	6.30E-04	2.39E-04
4380	456543.9	3767983	0.0021444	2.14E-03	6.42E-04	2.43E-04
4381	456547.5	3767974	0.0021844	2.18E-03	6.54E-04	2.48E-04
4382	456551.1	3767965	0.0022253	2.23E-03	6.67E-04	2.52E-04
4383	456554.7	3767956	0.0022668	2.27E-03	6.79E-04	2.57E-04
4384	456558.4	3767947	0.0023084	2.31E-03	6.91E-04	2.62E-04
4385	456562	3767939	0.0023507	2.35E-03	7.04E-04	2.67E-04
4386	456565.6	3767930	0.0023936	2.39E-03	7.17E-04	2.72E-04
4387	456569.2	3767921	0.0024371	2.44E-03	7.30E-04	2.77E-04
4388	456572.8	3767912	0.0024809	2.48E-03	7.43E-04	2.81E-04
4389	456576.5	3767903	0.0025249	2.52E-03	7.56E-04	2.86E-04
4390	456580.1	3767894	0.0025692	2.57E-03	7.70E-04	2.91E-04
4391	456583.7	3767885	0.0026146	2.61E-03	7.83E-04	2.97E-04
4392	456587.3	3767876	0.0026604	2.66E-03	7.97E-04	3.02E-04
4393	456590.9	3767867	0.0027064	2.71E-03	8.11E-04	3.07E-04
4394	456594.6	3767858	0.0027523	2.75E-03	8.24E-04	3.12E-04
4395	456598.2	3767850	0.0027986	2.80E-03	8.38E-04	3.18E-04
4396	456601.8	3767841	0.0028453	2.85E-03	8.52E-04	3.23E-04
4397	456605.4	3767832	0.002892	2.89E-03	8.66E-04	3.28E-04
4398	456609	3767823	0.0029383	2.94E-03	8.80E-04	3.33E-04
4399	456612.7	3767814	0.0029846	2.98E-03	8.94E-04	3.39E-04
4400	456616.3	3767805	0.0030311	3.03E-03	9.08E-04	3.44E-04
4401	456619.9	3767796	0.0030783	3.08E-03	9.22E-04	3.49E-04
4402	456623.5	3767787	0.003125	3.13E-03	9.36E-04	3.55E-04
4403	456627.1	3767778	0.0031713	3.17E-03	9.50E-04	3.60E-04
4404	456630.8	3767770	0.0032178	3.22E-03	9.64E-04	3.65E-04
4405	456634.4	3767761	0.0032641	3.26E-03	9.78E-04	3.70E-04
4406	456638	3767752	0.0033103	3.31E-03	9.91E-04	3.76E-04
4407	456641.6	3767743	0.003356	3.36E-03	1.01E-03	3.81E-04
4408	456645.2	3767734	0.0034014	3.40E-03	1.02E-03	3.86E-04
4409	456648.9	3767725	0.0034463	3.45E-03	1.03E-03	3.91E-04
4410	456652.5	3767716	0.0034907	3.49E-03	1.05E-03	3.96E-04
4411	456656.1	3767707	0.0035346	3.53E-03	1.06E-03	4.01E-04
4412	456659.7	3767698	0.0035778	3.58E-03	1.07E-03	4.06E-04
4413	456663.3	3767689	0.0036204	3.62E-03	1.08E-03	4.11E-04
4414	456667	3767681	0.0036622	3.66E-03	1.10E-03	4.15E-04
4415	456670.6	3767672	0.0037034	3.70E-03	1.11E-03	4.20E-04

4416	456674.2	3767663	0.0037436	3.74E-03	1.12E-03	4.25E-04
4417	456677.8	3767654	0.0037827	3.78E-03	1.13E-03	4.29E-04
4418	456681.4	3767645	0.0038203	3.82E-03	1.14E-03	4.33E-04
4419	456685.1	3767636	0.0038573	3.86E-03	1.16E-03	4.38E-04
4420	456688.7	3767627	0.0038937	3.89E-03	1.17E-03	4.42E-04
4421	456692.3	3767618	0.0039287	3.93E-03	1.18E-03	4.46E-04
4422	456522.2	3768036	0.0019152	1.92E-03	5.74E-04	2.17E-04
4423	456522.2	3768046	0.0018908	1.89E-03	5.66E-04	2.15E-04
4424	456522.3	3768056	0.0018664	1.87E-03	5.59E-04	2.12E-04
4425	456522.4	3768065	0.0018421	1.84E-03	5.52E-04	2.09E-04
4426	456522.5	3768075	0.0018179	1.82E-03	5.44E-04	2.06E-04
4427	456522.5	3768084	0.0017938	1.79E-03	5.37E-04	2.04E-04
4428	456522.6	3768094	0.0017698	1.77E-03	5.30E-04	2.01E-04
4429	456522.7	3768104	0.001746	1.75E-03	5.23E-04	1.98E-04
4430	456522.7	3768113	0.0017223	1.72E-03	5.16E-04	1.95E-04
4431	456522.8	3768123	0.0016987	1.70E-03	5.09E-04	1.93E-04
4432	456522.9	3768133	0.0016752	1.68E-03	5.02E-04	1.90E-04
4433	456523	3768142	0.0016523	1.65E-03	4.95E-04	1.87E-04
4434	456523	3768152	0.0016298	1.63E-03	4.88E-04	1.85E-04
4435	456523.1	3768161	0.0016074	1.61E-03	4.81E-04	1.82E-04
4436	456523.2	3768171	0.0015851	1.59E-03	4.75E-04	1.80E-04
4437	456523.3	3768181	0.0015631	1.56E-03	4.68E-04	1.77E-04
4438	456523.3	3768190	0.0015412	1.54E-03	4.62E-04	1.75E-04
4439	456523.4	3768200	0.0015197	1.52E-03	4.55E-04	1.72E-04
4440	456523.5	3768209	0.0014985	1.50E-03	4.49E-04	1.70E-04
4441	456523.6	3768219	0.0014776	1.48E-03	4.43E-04	1.68E-04
4442	456523.6	3768229	0.0014567	1.46E-03	4.36E-04	1.65E-04
4443	456523.7	3768238	0.0014358	1.44E-03	4.30E-04	1.63E-04
4444	457333.7	3768242	0.0297495	2.97E-02	8.91E-03	3.38E-03
4445	457343.6	3768242	0.0355075	3.55E-02	1.06E-02	4.03E-03
4446	457353.6	3768242	0.0424431	4.24E-02	1.27E-02	4.82E-03
4447	457363.6	3768242	0.0496708	4.97E-02	1.49E-02	5.64E-03
4448	457373.5	3768242	0.0566224	5.66E-02	1.70E-02	6.42E-03
4449	457383.5	3768242	0.0631603	6.32E-02	1.89E-02	7.17E-03
4450	457393.5	3768242	0.0692397	6.92E-02	2.07E-02	7.86E-03
4451	457403.5	3768242	0.0749477	7.49E-02	2.24E-02	8.50E-03
4452	457413.4	3768242	0.0801623	8.02E-02	2.40E-02	9.09E-03
4453	457423.4	3768242	0.0849368	8.49E-02	2.54E-02	9.64E-03
4454	457433.4	3768242	0.0893321	8.93E-02	2.68E-02	1.01E-02
4455	457443.3	3768242	0.093335	9.33E-02	2.80E-02	1.06E-02
4456	457453.3	3768242	0.096944	9.69E-02	2.90E-02	1.10E-02
4457	457463.3	3768242	0.1001156	1.00E-01	3.00E-02	1.14E-02
4458	457473.2	3768242	0.1030182	1.03E-01	3.09E-02	1.17E-02
4459	457483.2	3768242	0.1056419	1.06E-01	3.16E-02	1.20E-02
4460	457493.2	3768242	0.1080526	1.08E-01	3.24E-02	1.23E-02
4461	457503.2	3768242	0.1102152	1.10E-01	3.30E-02	1.25E-02
4462	457513.1	3768242	0.1122646	1.12E-01	3.36E-02	1.27E-02

4463	457523.1	3768242	0.1142012	1.14E-01	3.42E-02	1.30E-02
4464	457533.1	3768242	0.1159438	1.16E-01	3.47E-02	1.32E-02
4465	457543	3768242	0.1175441	1.18E-01	3.52E-02	1.33E-02
4466	457553	3768242	0.1189611	1.19E-01	3.56E-02	1.35E-02
4467	457563	3768242	0.1202399	1.20E-01	3.60E-02	1.36E-02
4468	457572.9	3768242	0.1212637	1.21E-01	3.63E-02	1.38E-02
4469	457582.9	3768242	0.1220091	1.22E-01	3.65E-02	1.38E-02
4470	457592.9	3768242	0.1225453	1.23E-01	3.67E-02	1.39E-02
4471	457602.9	3768242	0.1229435	1.23E-01	3.68E-02	1.39E-02
4472	457612.8	3768242	0.1231683	1.23E-01	3.69E-02	1.40E-02
4473	457622.8	3768242	0.1231926	1.23E-01	3.69E-02	1.40E-02
4474	457632.8	3768242	0.1231311	1.23E-01	3.69E-02	1.40E-02
4475	457642.7	3768242	0.1230123	1.23E-01	3.68E-02	1.40E-02
4476	457652.7	3768242	0.122685	1.23E-01	3.67E-02	1.39E-02
4477	457662.7	3768242	0.12206	1.22E-01	3.66E-02	1.38E-02
4478	457672.6	3768242	0.1211207	1.21E-01	3.63E-02	1.37E-02
4479	457682.6	3768242	0.1196824	1.20E-01	3.58E-02	1.36E-02
4480	457692.6	3768242	0.1174768	1.17E-01	3.52E-02	1.33E-02
4481	457702.6	3768242	0.1137355	1.14E-01	3.41E-02	1.29E-02
4482	457333.7	3768252	0.0247233	2.47E-02	7.41E-03	2.80E-03
4483	457343.6	3768252	0.0284561	2.85E-02	8.52E-03	3.23E-03
4484	457353.6	3768252	0.0328972	3.29E-02	9.85E-03	3.73E-03
4485	457363.6	3768252	0.0378444	3.78E-02	1.13E-02	4.29E-03
4486	457373.5	3768252	0.04305	4.30E-02	1.29E-02	4.88E-03
4487	457383.5	3768252	0.0482243	4.82E-02	1.44E-02	5.47E-03
4488	457393.5	3768252	0.0532089	5.32E-02	1.59E-02	6.04E-03
4489	457403.5	3768252	0.0579759	5.80E-02	1.74E-02	6.58E-03
4490	457413.4	3768252	0.0624473	6.24E-02	1.87E-02	7.08E-03
4491	457423.4	3768252	0.0666282	6.66E-02	2.00E-02	7.56E-03
4492	457433.4	3768252	0.0705394	7.05E-02	2.11E-02	8.00E-03
4493	457443.3	3768252	0.0741576	7.42E-02	2.22E-02	8.41E-03
4494	457453.3	3768252	0.0774417	7.74E-02	2.32E-02	8.79E-03
4495	457463.3	3768252	0.0803207	8.03E-02	2.41E-02	9.11E-03
4496	457473.2	3768252	0.082967	8.30E-02	2.48E-02	9.41E-03
4497	457483.2	3768252	0.0854509	8.55E-02	2.56E-02	9.69E-03
4498	457493.2	3768252	0.0878735	8.79E-02	2.63E-02	9.97E-03
4499	457503.2	3768252	0.0900747	9.01E-02	2.70E-02	1.02E-02
4500	457513.1	3768252	0.0921258	9.21E-02	2.76E-02	1.05E-02
4501	457523.1	3768252	0.0940151	9.40E-02	2.82E-02	1.07E-02
4502	457533.1	3768252	0.0957404	9.57E-02	2.87E-02	1.09E-02
4503	457543	3768252	0.0973249	9.73E-02	2.92E-02	1.10E-02
4504	457553	3768252	0.098747	9.87E-02	2.96E-02	1.12E-02
4505	457563	3768252	0.1000377	1.00E-01	3.00E-02	1.13E-02
4506	457573	3768252	0.1010733	1.01E-01	3.03E-02	1.15E-02
4507	457582.9	3768252	0.1018167	1.02E-01	3.05E-02	1.16E-02
4508	457592.9	3768252	0.1023856	1.02E-01	3.07E-02	1.16E-02
4509	457602.9	3768252	0.1029068	1.03E-01	3.08E-02	1.17E-02

4510	457612.8	3768252	0.1034088	1.03E-01	3.10E-02	1.17E-02
4511	457622.8	3768252	0.1037637	1.04E-01	3.11E-02	1.18E-02
4512	457632.8	3768252	0.1039957	1.04E-01	3.11E-02	1.18E-02
4513	457642.7	3768252	0.1040812	1.04E-01	3.12E-02	1.18E-02
4514	457652.7	3768252	0.103986	1.04E-01	3.11E-02	1.18E-02
4515	457662.7	3768252	0.1036542	1.04E-01	3.10E-02	1.18E-02
4516	457672.7	3768252	0.1030741	1.03E-01	3.09E-02	1.17E-02
4517	457682.6	3768252	0.102139	1.02E-01	3.06E-02	1.16E-02
4518	457692.6	3768252	0.1006811	1.01E-01	3.02E-02	1.14E-02
4519	457333.7	3768262	0.0211865	2.12E-02	6.35E-03	2.40E-03
4520	457343.6	3768262	0.0237873	2.38E-02	7.12E-03	2.70E-03
4521	457353.6	3768262	0.0268534	2.69E-02	8.04E-03	3.05E-03
4522	457363.6	3768262	0.0303989	3.04E-02	9.10E-03	3.45E-03
4523	457373.5	3768262	0.0342915	3.43E-02	1.03E-02	3.89E-03
4524	457383.5	3768262	0.0383205	3.83E-02	1.15E-02	4.35E-03
4525	457393.5	3768262	0.0423371	4.23E-02	1.27E-02	4.80E-03
4526	457403.5	3768262	0.0462751	4.63E-02	1.39E-02	5.25E-03
4527	457413.4	3768262	0.050063	5.01E-02	1.50E-02	5.68E-03
4528	457423.4	3768262	0.0536683	5.37E-02	1.61E-02	6.09E-03
4529	457433.4	3768262	0.0570673	5.71E-02	1.71E-02	6.47E-03
4530	457443.3	3768262	0.0602658	6.03E-02	1.81E-02	6.84E-03
4531	457453.3	3768262	0.063232	6.32E-02	1.89E-02	7.17E-03
4532	457463.3	3768262	0.0659159	6.59E-02	1.97E-02	7.48E-03
4533	457473.3	3768262	0.0684248	6.84E-02	2.05E-02	7.76E-03
4534	457483.2	3768262	0.0708007	7.08E-02	2.12E-02	8.03E-03
4535	457493.2	3768262	0.0731179	7.31E-02	2.19E-02	8.30E-03
4536	457503.2	3768262	0.0752573	7.53E-02	2.25E-02	8.54E-03
4537	457513.1	3768262	0.0772489	7.72E-02	2.31E-02	8.76E-03
4538	457523.1	3768262	0.0790731	7.91E-02	2.37E-02	8.97E-03
4539	457533.1	3768262	0.0807511	8.08E-02	2.42E-02	9.16E-03
4540	457543	3768262	0.0822907	8.23E-02	2.46E-02	9.34E-03
4541	457553	3768262	0.0836486	8.36E-02	2.51E-02	9.49E-03
4542	457563	3768262	0.0848916	8.49E-02	2.54E-02	9.63E-03
4543	457573	3768262	0.0859457	8.59E-02	2.57E-02	9.75E-03
4544	457582.9	3768262	0.0867918	8.68E-02	2.60E-02	9.85E-03
4545	457592.9	3768262	0.0874903	8.75E-02	2.62E-02	9.93E-03
4546	457602.9	3768262	0.0881354	8.81E-02	2.64E-02	1.00E-02
4547	457612.8	3768262	0.0887655	8.88E-02	2.66E-02	1.01E-02
4548	457622.8	3768262	0.0892639	8.93E-02	2.67E-02	1.01E-02
4549	457632.8	3768262	0.0896456	8.96E-02	2.69E-02	1.02E-02
4550	457642.7	3768262	0.0898746	8.99E-02	2.69E-02	1.02E-02
4551	457652.7	3768262	0.0899574	9.00E-02	2.69E-02	1.02E-02
4552	457662.7	3768262	0.0898375	8.98E-02	2.69E-02	1.02E-02
4553	457672.7	3768262	0.0895105	8.95E-02	2.68E-02	1.02E-02
4554	457682.6	3768262	0.0889121	8.89E-02	2.66E-02	1.01E-02
4555	457692.6	3768262	0.087962	8.80E-02	2.63E-02	9.98E-03
4556	457702.6	3768262	0.0864692	8.65E-02	2.59E-02	9.81E-03

4557	457292.6	3768254	0.0160243	1.60E-02	4.80E-03	1.82E-03
4558	457333.7	3768272	0.0185102	1.85E-02	5.54E-03	2.10E-03
4559	457343.6	3768272	0.0204207	2.04E-02	6.12E-03	2.32E-03
4560	457353.6	3768272	0.0226994	2.27E-02	6.80E-03	2.58E-03
4561	457363.6	3768272	0.0253476	2.53E-02	7.59E-03	2.88E-03
4562	457373.6	3768272	0.0282947	2.83E-02	8.47E-03	3.21E-03
4563	457383.5	3768272	0.0314272	3.14E-02	9.41E-03	3.57E-03
4564	457393.5	3768272	0.0346412	3.46E-02	1.04E-02	3.93E-03
4565	457403.5	3768272	0.0378746	3.79E-02	1.13E-02	4.30E-03
4566	457413.4	3768272	0.0410567	4.11E-02	1.23E-02	4.66E-03
4567	457423.4	3768272	0.0441232	4.41E-02	1.32E-02	5.01E-03
4568	457433.4	3768272	0.0470416	4.70E-02	1.41E-02	5.34E-03
4569	457443.3	3768272	0.0498195	4.98E-02	1.49E-02	5.65E-03
4570	457453.3	3768272	0.0524783	5.25E-02	1.57E-02	5.95E-03
4571	457463.3	3768272	0.0549853	5.50E-02	1.65E-02	6.24E-03
4572	457473.3	3768272	0.0573578	5.74E-02	1.72E-02	6.51E-03
4573	457483.2	3768272	0.0596042	5.96E-02	1.79E-02	6.76E-03
4574	457493.2	3768272	0.061765	6.18E-02	1.85E-02	7.01E-03
4575	457503.2	3768272	0.0637782	6.38E-02	1.91E-02	7.24E-03
4576	457513.1	3768272	0.0656668	6.57E-02	1.97E-02	7.45E-03
4577	457523.1	3768272	0.0674135	6.74E-02	2.02E-02	7.65E-03
4578	457533.1	3768272	0.0690318	6.90E-02	2.07E-02	7.83E-03
4579	457543	3768272	0.0705086	7.05E-02	2.11E-02	8.00E-03
4580	457553	3768272	0.0718	7.18E-02	2.15E-02	8.15E-03
4581	457563	3768272	0.0729776	7.30E-02	2.19E-02	8.28E-03
4582	457573	3768272	0.0740317	7.40E-02	2.22E-02	8.40E-03
4583	457582.9	3768272	0.0749851	7.50E-02	2.25E-02	8.51E-03
4584	457592.9	3768272	0.0758213	7.58E-02	2.27E-02	8.60E-03
4585	457602.9	3768272	0.0765733	7.66E-02	2.29E-02	8.69E-03
4586	457612.8	3768272	0.0772599	7.73E-02	2.31E-02	8.77E-03
4587	457622.8	3768272	0.0778308	7.78E-02	2.33E-02	8.83E-03
4588	457632.8	3768272	0.0782933	7.83E-02	2.35E-02	8.88E-03
4589	457642.8	3768272	0.0786225	7.86E-02	2.35E-02	8.92E-03
4590	457652.7	3768272	0.0788299	7.88E-02	2.36E-02	8.94E-03
4591	457662.7	3768272	0.0788588	7.89E-02	2.36E-02	8.95E-03
4592	457672.7	3768272	0.0786755	7.87E-02	2.36E-02	8.93E-03
4593	457682.6	3768272	0.0783076	7.83E-02	2.35E-02	8.88E-03
4594	457692.6	3768272	0.0777124	7.77E-02	2.33E-02	8.82E-03
4595	457284.8	3768259	0.0143269	1.43E-02	4.29E-03	1.63E-03
4596	457281.1	3768250	0.0151479	1.51E-02	4.54E-03	1.72E-03
4597	457277.4	3768241	0.0160254	1.60E-02	4.80E-03	1.82E-03
4598	457333.7	3768282	0.0163907	1.64E-02	4.91E-03	1.86E-03
4599	457343.6	3768282	0.0178814	1.79E-02	5.36E-03	2.03E-03
4600	457353.6	3768282	0.0196411	1.96E-02	5.88E-03	2.23E-03
4601	457363.6	3768282	0.0216754	2.17E-02	6.49E-03	2.46E-03
4602	457373.6	3768282	0.0239512	2.40E-02	7.17E-03	2.72E-03
4603	457383.5	3768282	0.0264148	2.64E-02	7.91E-03	3.00E-03

4604	457393.5	3768282	0.0289965	2.90E-02	8.68E-03	3.29E-03
4605	457403.5	3768282	0.031648	3.16E-02	9.48E-03	3.59E-03
4606	457413.4	3768282	0.0343101	3.43E-02	1.03E-02	3.89E-03
4607	457423.4	3768282	0.0369125	3.69E-02	1.11E-02	4.19E-03
4608	457433.4	3768282	0.0394012	3.94E-02	1.18E-02	4.47E-03
4609	457443.4	3768282	0.0418118	4.18E-02	1.25E-02	4.74E-03
4610	457453.3	3768282	0.0441676	4.42E-02	1.32E-02	5.01E-03
4611	457463.3	3768282	0.0464719	4.65E-02	1.39E-02	5.27E-03
4612	457473.3	3768282	0.0486747	4.87E-02	1.46E-02	5.52E-03
4613	457483.2	3768282	0.0507671	5.08E-02	1.52E-02	5.76E-03
4614	457493.2	3768282	0.0527667	5.28E-02	1.58E-02	5.99E-03
4615	457503.2	3768282	0.0546462	5.46E-02	1.64E-02	6.20E-03
4616	457513.1	3768282	0.0564227	5.64E-02	1.69E-02	6.40E-03
4617	457523.1	3768282	0.0580803	5.81E-02	1.74E-02	6.59E-03
4618	457533.1	3768282	0.0596285	5.96E-02	1.79E-02	6.77E-03
4619	457543.1	3768282	0.0610405	6.10E-02	1.83E-02	6.93E-03
4620	457553	3768282	0.0622672	6.23E-02	1.86E-02	7.06E-03
4621	457563	3768282	0.0633913	6.34E-02	1.90E-02	7.19E-03
4622	457573	3768282	0.0644386	6.44E-02	1.93E-02	7.31E-03
4623	457582.9	3768282	0.0654535	6.55E-02	1.96E-02	7.43E-03
4624	457592.9	3768282	0.0663596	6.64E-02	1.99E-02	7.53E-03
4625	457602.9	3768282	0.0671825	6.72E-02	2.01E-02	7.62E-03
4626	457612.8	3768282	0.0679095	6.79E-02	2.03E-02	7.70E-03
4627	457622.8	3768282	0.0685351	6.85E-02	2.05E-02	7.78E-03
4628	457632.8	3768282	0.0690656	6.91E-02	2.07E-02	7.84E-03
4629	457642.8	3768282	0.0694815	6.95E-02	2.08E-02	7.88E-03
4630	457652.7	3768282	0.0697932	6.98E-02	2.09E-02	7.92E-03
4631	457662.7	3768282	0.0699392	6.99E-02	2.09E-02	7.93E-03
4632	457672.7	3768282	0.0698871	6.99E-02	2.09E-02	7.93E-03
4633	457682.6	3768282	0.0696742	6.97E-02	2.09E-02	7.90E-03
4634	457692.6	3768282	0.0693193	6.93E-02	2.08E-02	7.86E-03
4635	457702.6	3768282	0.0687897	6.88E-02	2.06E-02	7.80E-03
4636	457289.9	3768278	0.0124735	1.25E-02	3.74E-03	1.42E-03
4637	457277.9	3768266	0.0127829	1.28E-02	3.83E-03	1.45E-03
4638	457270.8	3768249	0.0140997	1.41E-02	4.22E-03	1.60E-03
4639	457333.7	3768292	0.0147066	1.47E-02	4.40E-03	1.67E-03
4640	457343.7	3768292	0.0158995	1.59E-02	4.76E-03	1.80E-03
4641	457353.6	3768292	0.0172896	1.73E-02	5.18E-03	1.96E-03
4642	457363.6	3768292	0.0188893	1.89E-02	5.66E-03	2.14E-03
4643	457373.6	3768292	0.0206821	2.07E-02	6.19E-03	2.35E-03
4644	457383.5	3768292	0.0226448	2.26E-02	6.78E-03	2.57E-03
4645	457393.5	3768292	0.0247258	2.47E-02	7.41E-03	2.81E-03
4646	457403.5	3768292	0.0268899	2.69E-02	8.05E-03	3.05E-03
4647	457413.4	3768292	0.0290978	2.91E-02	8.72E-03	3.30E-03
4648	457423.4	3768292	0.0312956	3.13E-02	9.37E-03	3.55E-03
4649	457433.4	3768292	0.0334548	3.35E-02	1.00E-02	3.80E-03
4650	457443.4	3768292	0.0355702	3.56E-02	1.07E-02	4.04E-03

4651	457453.3	3768292	0.0376653	3.77E-02	1.13E-02	4.27E-03
4652	457463.3	3768292	0.0397361	3.97E-02	1.19E-02	4.51E-03
4653	457473.3	3768292	0.0417397	4.17E-02	1.25E-02	4.74E-03
4654	457483.2	3768292	0.043657	4.37E-02	1.31E-02	4.95E-03
4655	457493.2	3768292	0.0454954	4.55E-02	1.36E-02	5.16E-03
4656	457503.2	3768292	0.0472389	4.72E-02	1.41E-02	5.36E-03
4657	457513.1	3768292	0.0488925	4.89E-02	1.46E-02	5.55E-03
4658	457523.1	3768292	0.0504324	5.04E-02	1.51E-02	5.72E-03
4659	457533.1	3768292	0.0518833	5.19E-02	1.55E-02	5.89E-03
4660	457543.1	3768292	0.0532275	5.32E-02	1.59E-02	6.04E-03
4661	457553	3768292	0.054428	5.44E-02	1.63E-02	6.18E-03
4662	457563	3768292	0.0555429	5.55E-02	1.66E-02	6.30E-03
4663	457573	3768292	0.0565897	5.66E-02	1.69E-02	6.42E-03
4664	457582.9	3768292	0.0576138	5.76E-02	1.73E-02	6.54E-03
4665	457592.9	3768292	0.0585429	5.85E-02	1.75E-02	6.64E-03
4666	457602.9	3768292	0.0593843	5.94E-02	1.78E-02	6.74E-03
4667	457612.8	3768292	0.0601168	6.01E-02	1.80E-02	6.82E-03
4668	457622.8	3768292	0.0607567	6.08E-02	1.82E-02	6.89E-03
4669	457632.8	3768292	0.0613241	6.13E-02	1.84E-02	6.96E-03
4670	457642.8	3768292	0.0618038	6.18E-02	1.85E-02	7.01E-03
4671	457652.7	3768292	0.0621928	6.22E-02	1.86E-02	7.06E-03
4672	457662.7	3768292	0.0624463	6.24E-02	1.87E-02	7.08E-03
4673	457672.7	3768292	0.0625335	6.25E-02	1.87E-02	7.09E-03
4674	457682.6	3768292	0.0624896	6.25E-02	1.87E-02	7.09E-03
4675	457692.6	3768292	0.0623323	6.23E-02	1.87E-02	7.07E-03
4676	457702.6	3768292	0.0620513	6.21E-02	1.86E-02	7.04E-03
4677	457282.6	3768285	0.0112718	1.13E-02	3.38E-03	1.28E-03
4678	457270.9	3768274	0.0115254	1.15E-02	3.45E-03	1.31E-03
4679	457264	3768257	0.0125846	1.26E-02	3.77E-03	1.43E-03
4680	457333.7	3768302	0.0133232	1.33E-02	3.99E-03	1.51E-03
4681	457343.7	3768302	0.0142963	1.43E-02	4.28E-03	1.62E-03
4682	457353.6	3768302	0.0154171	1.54E-02	4.62E-03	1.75E-03
4683	457363.6	3768302	0.0166993	1.67E-02	5.00E-03	1.89E-03
4684	457373.6	3768302	0.0181376	1.81E-02	5.43E-03	2.06E-03
4685	457383.5	3768302	0.0197222	1.97E-02	5.91E-03	2.24E-03
4686	457393.5	3768302	0.0214127	2.14E-02	6.41E-03	2.43E-03
4687	457403.5	3768302	0.0231787	2.32E-02	6.94E-03	2.63E-03
4688	457413.4	3768302	0.0250019	2.50E-02	7.49E-03	2.84E-03
4689	457423.4	3768302	0.0268632	2.69E-02	8.05E-03	3.05E-03
4690	457433.4	3768302	0.0287452	2.87E-02	8.61E-03	3.26E-03
4691	457443.4	3768302	0.030614	3.06E-02	9.17E-03	3.47E-03
4692	457453.3	3768302	0.032476	3.25E-02	9.73E-03	3.68E-03
4693	457463.3	3768302	0.0343201	3.43E-02	1.03E-02	3.89E-03
4694	457473.3	3768302	0.0361197	3.61E-02	1.08E-02	4.10E-03
4695	457483.2	3768302	0.0378577	3.79E-02	1.13E-02	4.30E-03
4696	457493.2	3768302	0.0395381	3.95E-02	1.18E-02	4.49E-03
4697	457503.2	3768302	0.0411452	4.11E-02	1.23E-02	4.67E-03

4698	457513.2	3768302	0.0426714	4.27E-02	1.28E-02	4.84E-03
4699	457523.1	3768302	0.044087	4.41E-02	1.32E-02	5.00E-03
4700	457533.1	3768302	0.045428	4.54E-02	1.36E-02	5.15E-03
4701	457543.1	3768302	0.046697	4.67E-02	1.40E-02	5.30E-03
4702	457553	3768302	0.0478846	4.79E-02	1.43E-02	5.43E-03
4703	457563	3768302	0.0489995	4.90E-02	1.47E-02	5.56E-03
4704	457573	3768302	0.0500468	5.00E-02	1.50E-02	5.68E-03
4705	457582.9	3768302	0.0510503	5.11E-02	1.53E-02	5.79E-03
4706	457592.9	3768302	0.0519705	5.20E-02	1.56E-02	5.90E-03
4707	457602.9	3768302	0.0528024	5.28E-02	1.58E-02	5.99E-03
4708	457612.9	3768302	0.0535201	5.35E-02	1.60E-02	6.07E-03
4709	457622.8	3768302	0.0541563	5.42E-02	1.62E-02	6.14E-03
4710	457632.8	3768302	0.0547383	5.47E-02	1.64E-02	6.21E-03
4711	457642.8	3768302	0.0552644	5.53E-02	1.66E-02	6.27E-03
4712	457652.7	3768302	0.0557123	5.57E-02	1.67E-02	6.32E-03
4713	457662.7	3768302	0.0560514	5.61E-02	1.68E-02	6.36E-03
4714	457672.7	3768302	0.0562706	5.63E-02	1.69E-02	6.38E-03
4715	457682.6	3768302	0.0563784	5.64E-02	1.69E-02	6.40E-03
4716	457692.6	3768302	0.0563845	5.64E-02	1.69E-02	6.40E-03
4717	457702.6	3768302	0.0562719	5.63E-02	1.69E-02	6.38E-03
4718	457283.5	3768296	0.0104531	1.05E-02	3.13E-03	1.19E-03
4719	457264	3768281	0.0104776	1.05E-02	3.14E-03	1.19E-03
4720	457257.2	3768265	0.011352	1.14E-02	3.40E-03	1.29E-03
4721	457250.4	3768249	0.012304	1.23E-02	3.69E-03	1.40E-03
4722	457333.7	3768312	0.012157	1.22E-02	3.64E-03	1.38E-03
4723	457343.7	3768312	0.0129652	1.30E-02	3.88E-03	1.47E-03
4724	457353.6	3768312	0.0138864	1.39E-02	4.16E-03	1.58E-03
4725	457363.6	3768312	0.0149336	1.49E-02	4.47E-03	1.69E-03
4726	457373.6	3768312	0.0161065	1.61E-02	4.82E-03	1.83E-03
4727	457383.5	3768312	0.0174029	1.74E-02	5.21E-03	1.97E-03
4728	457393.5	3768312	0.0187896	1.88E-02	5.63E-03	2.13E-03
4729	457403.5	3768312	0.0202395	2.02E-02	6.06E-03	2.30E-03
4730	457413.5	3768312	0.0217558	2.18E-02	6.52E-03	2.47E-03
4731	457423.4	3768312	0.0233323	2.33E-02	6.99E-03	2.65E-03
4732	457433.4	3768312	0.0249674	2.50E-02	7.48E-03	2.83E-03
4733	457443.4	3768312	0.0266104	2.66E-02	7.97E-03	3.02E-03
4734	457453.3	3768312	0.028258	2.83E-02	8.46E-03	3.21E-03
4735	457463.3	3768312	0.029891	2.99E-02	8.95E-03	3.39E-03
4736	457473.3	3768312	0.0315007	3.15E-02	9.43E-03	3.57E-03
4737	457483.2	3768312	0.0330695	3.31E-02	9.90E-03	3.75E-03
4738	457493.2	3768312	0.0345984	3.46E-02	1.04E-02	3.93E-03
4739	457503.2	3768312	0.0360726	3.61E-02	1.08E-02	4.09E-03
4740	457513.2	3768312	0.0374755	3.75E-02	1.12E-02	4.25E-03
4741	457523.1	3768312	0.0387735	3.88E-02	1.16E-02	4.40E-03
4742	457533.1	3768312	0.0400101	4.00E-02	1.20E-02	4.54E-03
4743	457543.1	3768312	0.0412045	4.12E-02	1.23E-02	4.67E-03
4744	457553	3768312	0.0423623	4.24E-02	1.27E-02	4.81E-03

4745	457563	3768312	0.0434595	4.35E-02	1.30E-02	4.93E-03
4746	457573	3768312	0.0444893	4.45E-02	1.33E-02	5.05E-03
4747	457582.9	3768312	0.0454644	4.55E-02	1.36E-02	5.16E-03
4748	457592.9	3768312	0.0463672	4.64E-02	1.39E-02	5.26E-03
4749	457602.9	3768312	0.0471861	4.72E-02	1.41E-02	5.35E-03
4750	457612.9	3768312	0.0478843	4.79E-02	1.43E-02	5.43E-03
4751	457622.8	3768312	0.0485155	4.85E-02	1.45E-02	5.50E-03
4752	457632.8	3768312	0.049101	4.91E-02	1.47E-02	5.57E-03
4753	457642.8	3768312	0.0496586	4.97E-02	1.49E-02	5.63E-03
4754	457652.7	3768312	0.0501475	5.01E-02	1.50E-02	5.69E-03
4755	457662.7	3768312	0.0505518	5.06E-02	1.51E-02	5.74E-03
4756	457672.7	3768312	0.0508694	5.09E-02	1.52E-02	5.77E-03
4757	457682.7	3768312	0.051091	5.11E-02	1.53E-02	5.80E-03
4758	457692.6	3768312	0.0512197	5.12E-02	1.53E-02	5.81E-03
4759	457702.6	3768312	0.0512334	5.12E-02	1.53E-02	5.81E-03
4760	457296.5	3768311	0.0099719	9.97E-03	2.99E-03	1.13E-03
4761	457287.5	3768307	0.0097898	9.79E-03	2.93E-03	1.11E-03
4762	457278.4	3768304	0.0096103	9.61E-03	2.88E-03	1.09E-03
4763	457269.4	3768300	0.0094316	9.43E-03	2.82E-03	1.07E-03
4764	457256.5	3768287	0.0096404	9.64E-03	2.89E-03	1.09E-03
4765	457252.7	3768278	0.0100551	1.01E-02	3.01E-03	1.14E-03
4766	457248.9	3768269	0.010491	1.05E-02	3.14E-03	1.19E-03
4767	457245.1	3768260	0.010947	1.09E-02	3.28E-03	1.24E-03
4768	457241.3	3768251	0.0114197	1.14E-02	3.42E-03	1.30E-03
4769	457237.5	3768242	0.0119056	1.19E-02	3.57E-03	1.35E-03
4770	457333.7	3768322	0.0111567	1.12E-02	3.34E-03	1.27E-03
4771	457343.7	3768322	0.0118332	1.18E-02	3.54E-03	1.34E-03
4772	457353.6	3768322	0.0125959	1.26E-02	3.77E-03	1.43E-03
4773	457363.6	3768322	0.0134602	1.35E-02	4.03E-03	1.53E-03
4774	457373.6	3768322	0.0144284	1.44E-02	4.32E-03	1.64E-03
4775	457383.5	3768322	0.0154996	1.55E-02	4.64E-03	1.76E-03
4776	457393.5	3768322	0.0166514	1.67E-02	4.99E-03	1.89E-03
4777	457403.5	3768322	0.0178677	1.79E-02	5.35E-03	2.03E-03
4778	457413.5	3768322	0.0191493	1.91E-02	5.74E-03	2.17E-03
4779	457423.4	3768322	0.0204974	2.05E-02	6.14E-03	2.33E-03
4780	457433.4	3768322	0.021908	2.19E-02	6.56E-03	2.49E-03
4781	457443.4	3768322	0.0233414	2.33E-02	6.99E-03	2.65E-03
4782	457453.3	3768322	0.0247894	2.48E-02	7.42E-03	2.81E-03
4783	457463.3	3768322	0.0262335	2.62E-02	7.86E-03	2.98E-03
4784	457473.3	3768322	0.0276691	2.77E-02	8.29E-03	3.14E-03
4785	457483.2	3768322	0.029077	2.91E-02	8.71E-03	3.30E-03
4786	457493.2	3768322	0.0304511	3.05E-02	9.12E-03	3.45E-03
4787	457503.2	3768322	0.0317884	3.18E-02	9.52E-03	3.61E-03
4788	457513.2	3768322	0.0330727	3.31E-02	9.91E-03	3.75E-03
4789	457523.1	3768322	0.0342832	3.43E-02	1.03E-02	3.89E-03
4790	457533.1	3768322	0.0354432	3.54E-02	1.06E-02	4.02E-03
4791	457543.1	3768322	0.0365733	3.66E-02	1.10E-02	4.15E-03

4792	457553	3768322	0.0376786	3.77E-02	1.13E-02	4.27E-03
4793	457563	3768322	0.0387331	3.87E-02	1.16E-02	4.39E-03
4794	457573	3768322	0.039723	3.97E-02	1.19E-02	4.51E-03
4795	457583	3768322	0.0406521	4.07E-02	1.22E-02	4.61E-03
4796	457592.9	3768322	0.0415166	4.15E-02	1.24E-02	4.71E-03
4797	457602.9	3768322	0.0423146	4.23E-02	1.27E-02	4.80E-03
4798	457612.9	3768322	0.0430195	4.30E-02	1.29E-02	4.88E-03
4799	457622.8	3768322	0.0436638	4.37E-02	1.31E-02	4.95E-03
4800	457632.8	3768322	0.0442699	4.43E-02	1.33E-02	5.02E-03
4801	457642.8	3768322	0.0448462	4.48E-02	1.34E-02	5.09E-03
4802	457652.7	3768322	0.0453628	4.54E-02	1.36E-02	5.15E-03
4803	457662.7	3768322	0.0458074	4.58E-02	1.37E-02	5.20E-03
4804	457672.7	3768322	0.0461843	4.62E-02	1.38E-02	5.24E-03
4805	457682.7	3768322	0.0464784	4.65E-02	1.39E-02	5.27E-03
4806	457692.6	3768322	0.0466861	4.67E-02	1.40E-02	5.30E-03
4807	457288.5	3768318	0.0091377	9.14E-03	2.74E-03	1.04E-03
4808	457279.7	3768314	0.0089855	8.99E-03	2.69E-03	1.02E-03
4809	457270.9	3768310	0.0088348	8.83E-03	2.65E-03	1.00E-03
4810	457262.1	3768307	0.0086836	8.68E-03	2.60E-03	9.85E-04
4811	457249.6	3768294	0.0088649	8.86E-03	2.66E-03	1.01E-03
4812	457245.9	3768286	0.0092137	9.21E-03	2.76E-03	1.05E-03
4813	457242.2	3768277	0.0095786	9.58E-03	2.87E-03	1.09E-03
4814	457238.5	3768268	0.0099584	9.96E-03	2.98E-03	1.13E-03
4815	457234.8	3768259	0.0103531	1.04E-02	3.10E-03	1.17E-03
4816	457231.1	3768250	0.0107596	1.08E-02	3.22E-03	1.22E-03
4817	457227.4	3768242	0.0111744	1.12E-02	3.35E-03	1.27E-03
4818	457333.7	3768332	0.010291	1.03E-02	3.08E-03	1.17E-03
4819	457343.7	3768332	0.0108609	1.09E-02	3.25E-03	1.23E-03
4820	457353.6	3768332	0.0114989	1.15E-02	3.44E-03	1.30E-03
4821	457363.6	3768332	0.0122181	1.22E-02	3.66E-03	1.39E-03
4822	457373.6	3768332	0.0130264	1.30E-02	3.90E-03	1.48E-03
4823	457383.6	3768332	0.0139207	1.39E-02	4.17E-03	1.58E-03
4824	457393.5	3768332	0.0148898	1.49E-02	4.46E-03	1.69E-03
4825	457403.5	3768332	0.0159255	1.59E-02	4.77E-03	1.81E-03
4826	457413.5	3768332	0.017025	1.70E-02	5.10E-03	1.93E-03
4827	457423.4	3768332	0.0181837	1.82E-02	5.45E-03	2.06E-03
4828	457433.4	3768332	0.0193987	1.94E-02	5.81E-03	2.20E-03
4829	457443.4	3768332	0.0206438	2.06E-02	6.18E-03	2.34E-03
4830	457453.3	3768332	0.0219119	2.19E-02	6.56E-03	2.49E-03
4831	457463.3	3768332	0.0231872	2.32E-02	6.94E-03	2.63E-03
4832	457473.3	3768332	0.0244653	2.45E-02	7.33E-03	2.78E-03
4833	457483.3	3768332	0.025723	2.57E-02	7.70E-03	2.92E-03
4834	457493.2	3768332	0.0269494	2.69E-02	8.07E-03	3.06E-03
4835	457503.2	3768332	0.0281494	2.81E-02	8.43E-03	3.19E-03
4836	457513.2	3768332	0.0293226	2.93E-02	8.78E-03	3.33E-03
4837	457523.1	3768332	0.0304595	3.05E-02	9.12E-03	3.46E-03
4838	457533.1	3768332	0.0315579	3.16E-02	9.45E-03	3.58E-03

4839	457543.1	3768332	0.0326282	3.26E-02	9.77E-03	3.70E-03
4840	457553	3768332	0.0336679	3.37E-02	1.01E-02	3.82E-03
4841	457563	3768332	0.0346659	3.47E-02	1.04E-02	3.93E-03
4842	457573	3768332	0.0356031	3.56E-02	1.07E-02	4.04E-03
4843	457583	3768332	0.0364766	3.65E-02	1.09E-02	4.14E-03
4844	457592.9	3768332	0.0372944	3.73E-02	1.12E-02	4.23E-03
4845	457602.9	3768332	0.0380667	3.81E-02	1.14E-02	4.32E-03
4846	457612.9	3768332	0.0387865	3.88E-02	1.16E-02	4.40E-03
4847	457622.8	3768332	0.0394522	3.95E-02	1.18E-02	4.48E-03
4848	457632.8	3768332	0.0400772	4.01E-02	1.20E-02	4.55E-03
4849	457642.8	3768332	0.0406631	4.07E-02	1.22E-02	4.61E-03
4850	457652.7	3768332	0.0411962	4.12E-02	1.23E-02	4.67E-03
4851	457662.7	3768332	0.0416665	4.17E-02	1.25E-02	4.73E-03
4852	457672.7	3768332	0.0420776	4.21E-02	1.26E-02	4.77E-03
4853	457682.7	3768332	0.0424172	4.24E-02	1.27E-02	4.81E-03
4854	457692.6	3768332	0.0426774	4.27E-02	1.28E-02	4.84E-03
4855	457702.6	3768332	0.0428295	4.28E-02	1.28E-02	4.86E-03
4856	457232	3768312	0.0073494	7.35E-03	2.20E-03	8.34E-04
4857	457228.3	3768303	0.0076052	7.61E-03	2.28E-03	8.63E-04
4858	457224.6	3768295	0.0078675	7.87E-03	2.36E-03	8.93E-04
4859	457220.9	3768286	0.0081394	8.14E-03	2.44E-03	9.23E-04
4860	457217.2	3768277	0.0084211	8.42E-03	2.52E-03	9.55E-04
4861	457213.5	3768268	0.0087116	8.71E-03	2.61E-03	9.88E-04
4862	457209.8	3768259	0.0090099	9.01E-03	2.70E-03	1.02E-03
4863	457206.1	3768251	0.0093143	9.31E-03	2.79E-03	1.06E-03
4864	457202.4	3768242	0.0096232	9.62E-03	2.88E-03	1.09E-03
4865	457333.7	3768357	0.008553	8.55E-03	2.56E-03	9.70E-04
4866	457343.7	3768357	0.0089497	8.95E-03	2.68E-03	1.02E-03
4867	457353.7	3768357	0.0093862	9.39E-03	2.81E-03	1.06E-03
4868	457363.6	3768357	0.0098724	9.87E-03	2.96E-03	1.12E-03
4869	457373.6	3768357	0.010414	1.04E-02	3.12E-03	1.18E-03
4870	457383.6	3768357	0.0110103	1.10E-02	3.30E-03	1.25E-03
4871	457393.5	3768357	0.0116608	1.17E-02	3.49E-03	1.32E-03
4872	457403.5	3768357	0.0123666	1.24E-02	3.70E-03	1.40E-03
4873	457413.5	3768357	0.0131229	1.31E-02	3.93E-03	1.49E-03
4874	457423.4	3768357	0.0139266	1.39E-02	4.17E-03	1.58E-03
4875	457433.4	3768357	0.014774	1.48E-02	4.43E-03	1.68E-03
4876	457443.4	3768357	0.0156561	1.57E-02	4.69E-03	1.78E-03
4877	457453.4	3768357	0.0165651	1.66E-02	4.96E-03	1.88E-03
4878	457463.3	3768357	0.0174892	1.75E-02	5.24E-03	1.98E-03
4879	457473.3	3768357	0.0184294	1.84E-02	5.52E-03	2.09E-03
4880	457483.3	3768357	0.0193724	1.94E-02	5.80E-03	2.20E-03
4881	457493.2	3768357	0.0203146	2.03E-02	6.08E-03	2.30E-03
4882	457503.2	3768357	0.0212509	2.13E-02	6.36E-03	2.41E-03
4883	457513.2	3768357	0.0221883	2.22E-02	6.65E-03	2.52E-03
4884	457523.1	3768357	0.0231257	2.31E-02	6.93E-03	2.62E-03
4885	457533.1	3768357	0.0240468	2.40E-02	7.20E-03	2.73E-03

4886	457543.1	3768357	0.0249461	2.49E-02	7.47E-03	2.83E-03
4887	457553.1	3768357	0.0258103	2.58E-02	7.73E-03	2.93E-03
4888	457563	3768357	0.0266508	2.67E-02	7.98E-03	3.02E-03
4889	457573	3768357	0.0274566	2.75E-02	8.22E-03	3.12E-03
4890	457583	3768357	0.0282271	2.82E-02	8.45E-03	3.20E-03
4891	457592.9	3768357	0.028961	2.90E-02	8.67E-03	3.29E-03
4892	457602.9	3768357	0.0296735	2.97E-02	8.89E-03	3.37E-03
4893	457612.9	3768357	0.0303656	3.04E-02	9.09E-03	3.45E-03
4894	457622.8	3768357	0.0310215	3.10E-02	9.29E-03	3.52E-03
4895	457632.8	3768357	0.0316429	3.16E-02	9.48E-03	3.59E-03
4896	457642.8	3768357	0.0322225	3.22E-02	9.65E-03	3.66E-03
4897	457652.8	3768357	0.0327645	3.28E-02	9.81E-03	3.72E-03
4898	457662.7	3768357	0.0332565	3.33E-02	9.96E-03	3.77E-03
4899	457672.7	3768357	0.033696	3.37E-02	1.01E-02	3.82E-03
4900	457682.7	3768357	0.0340857	3.41E-02	1.02E-02	3.87E-03
4901	457692.6	3768357	0.0344212	3.44E-02	1.03E-02	3.91E-03
4902	457702.6	3768357	0.0346886	3.47E-02	1.04E-02	3.94E-03
4903	457210.7	3768321	0.0064242	6.42E-03	1.92E-03	7.29E-04
4904	457207	3768312	0.0066215	6.62E-03	1.98E-03	7.51E-04
4905	457203.3	3768304	0.0068249	6.82E-03	2.04E-03	7.74E-04
4906	457199.6	3768295	0.0070345	7.03E-03	2.11E-03	7.98E-04
4907	457195.9	3768286	0.0072506	7.25E-03	2.17E-03	8.23E-04
4908	457192.2	3768277	0.0074715	7.47E-03	2.24E-03	8.48E-04
4909	457188.5	3768268	0.0076969	7.70E-03	2.31E-03	8.73E-04
4910	457184.8	3768260	0.0079267	7.93E-03	2.37E-03	8.99E-04
4911	457181.1	3768251	0.0081618	8.16E-03	2.44E-03	9.26E-04
4912	457177.4	3768242	0.0084021	8.40E-03	2.52E-03	9.53E-04
4913	457333.7	3768382	0.0072535	7.25E-03	2.17E-03	8.23E-04
4914	457343.7	3768382	0.0075484	7.55E-03	2.26E-03	8.56E-04
4915	457353.7	3768382	0.0078692	7.87E-03	2.36E-03	8.93E-04
4916	457363.6	3768382	0.0082204	8.22E-03	2.46E-03	9.33E-04
4917	457373.6	3768382	0.0086039	8.60E-03	2.58E-03	9.76E-04
4918	457383.6	3768382	0.0090235	9.02E-03	2.70E-03	1.02E-03
4919	457393.5	3768382	0.0094784	9.48E-03	2.84E-03	1.08E-03
4920	457403.5	3768382	0.0099705	9.97E-03	2.99E-03	1.13E-03
4921	457413.5	3768382	0.0104992	1.05E-02	3.14E-03	1.19E-03
4922	457423.5	3768382	0.0110652	1.11E-02	3.31E-03	1.26E-03
4923	457433.4	3768382	0.0116688	1.17E-02	3.49E-03	1.32E-03
4924	457443.4	3768382	0.0123032	1.23E-02	3.68E-03	1.40E-03
4925	457453.4	3768382	0.0129615	1.30E-02	3.88E-03	1.47E-03
4926	457463.3	3768382	0.0136324	1.36E-02	4.08E-03	1.55E-03
4927	457473.3	3768382	0.0143237	1.43E-02	4.29E-03	1.63E-03
4928	457483.3	3768382	0.0150356	1.50E-02	4.50E-03	1.71E-03
4929	457493.2	3768382	0.0157722	1.58E-02	4.72E-03	1.79E-03
4930	457503.2	3768382	0.0165156	1.65E-02	4.95E-03	1.87E-03
4931	457513.2	3768382	0.0172633	1.73E-02	5.17E-03	1.96E-03
4932	457523.2	3768382	0.0180059	1.80E-02	5.39E-03	2.04E-03

4933	457533.1	3768382	0.0187457	1.87E-02	5.61E-03	2.13E-03
4934	457543.1	3768382	0.0194743	1.95E-02	5.83E-03	2.21E-03
4935	457553.1	3768382	0.020181	2.02E-02	6.04E-03	2.29E-03
4936	457563	3768382	0.020876	2.09E-02	6.25E-03	2.37E-03
4937	457573	3768382	0.0215612	2.16E-02	6.46E-03	2.45E-03
4938	457583	3768382	0.0222471	2.22E-02	6.66E-03	2.52E-03
4939	457592.9	3768382	0.0229123	2.29E-02	6.86E-03	2.60E-03
4940	457602.9	3768382	0.0235588	2.36E-02	7.06E-03	2.67E-03
4941	457612.9	3768382	0.024181	2.42E-02	7.24E-03	2.74E-03
4942	457622.9	3768382	0.02478	2.48E-02	7.42E-03	2.81E-03
4943	457632.8	3768382	0.0253533	2.54E-02	7.59E-03	2.88E-03
4944	457642.8	3768382	0.0258939	2.59E-02	7.76E-03	2.94E-03
4945	457652.8	3768382	0.0264074	2.64E-02	7.91E-03	3.00E-03
4946	457662.7	3768382	0.0268839	2.69E-02	8.05E-03	3.05E-03
4947	457672.7	3768382	0.0273163	2.73E-02	8.18E-03	3.10E-03
4948	457682.7	3768382	0.0277117	2.77E-02	8.30E-03	3.14E-03
4949	457692.7	3768382	0.02808	2.81E-02	8.41E-03	3.19E-03
4950	457702.6	3768382	0.0284246	2.84E-02	8.51E-03	3.22E-03
4951	457185.7	3768321	0.0058334	5.83E-03	1.75E-03	6.62E-04
4952	457182	3768313	0.0059951	6.00E-03	1.80E-03	6.80E-04
4953	457178.3	3768304	0.006161	6.16E-03	1.85E-03	6.99E-04
4954	457174.6	3768295	0.0063308	6.33E-03	1.90E-03	7.18E-04
4955	457170.9	3768286	0.0065043	6.50E-03	1.95E-03	7.38E-04
4956	457167.2	3768277	0.006681	6.68E-03	2.00E-03	7.58E-04
4957	457163.5	3768269	0.0068615	6.86E-03	2.06E-03	7.78E-04
4958	457159.8	3768260	0.007046	7.05E-03	2.11E-03	7.99E-04
4959	457156.1	3768251	0.007234	7.23E-03	2.17E-03	8.21E-04
4960	457152.4	3768242	0.0074244	7.42E-03	2.22E-03	8.42E-04
4961	457333.7	3768407	0.0062609	6.26E-03	1.88E-03	7.10E-04
4962	457343.7	3768407	0.0064841	6.48E-03	1.94E-03	7.36E-04
4963	457353.7	3768407	0.0067245	6.72E-03	2.01E-03	7.63E-04
4964	457363.6	3768407	0.0069851	6.99E-03	2.09E-03	7.92E-04
4965	457373.6	3768407	0.0072671	7.27E-03	2.18E-03	8.24E-04
4966	457383.6	3768407	0.0075735	7.57E-03	2.27E-03	8.59E-04
4967	457393.6	3768407	0.0079011	7.90E-03	2.37E-03	8.96E-04
4968	457403.5	3768407	0.0082499	8.25E-03	2.47E-03	9.36E-04
4969	457413.5	3768407	0.0086241	8.62E-03	2.58E-03	9.78E-04
4970	457423.5	3768407	0.0090285	9.03E-03	2.70E-03	1.02E-03
4971	457433.4	3768407	0.0094671	9.47E-03	2.84E-03	1.07E-03
4972	457443.4	3768407	0.0099309	9.93E-03	2.97E-03	1.13E-03
4973	457453.4	3768407	0.0104201	1.04E-02	3.12E-03	1.18E-03
4974	457463.3	3768407	0.010931	1.09E-02	3.27E-03	1.24E-03
4975	457473.3	3768407	0.0114634	1.15E-02	3.43E-03	1.30E-03
4976	457483.3	3768407	0.0120127	1.20E-02	3.60E-03	1.36E-03
4977	457493.3	3768407	0.0125778	1.26E-02	3.77E-03	1.43E-03
4978	457503.2	3768407	0.0131543	1.32E-02	3.94E-03	1.49E-03
4979	457513.2	3768407	0.0137357	1.37E-02	4.11E-03	1.56E-03

4980	457523.2	3768407	0.0143106	1.43E-02	4.29E-03	1.62E-03
4981	457533.1	3768407	0.0148891	1.49E-02	4.46E-03	1.69E-03
4982	457543.1	3768407	0.0154762	1.55E-02	4.64E-03	1.76E-03
4983	457553.1	3768407	0.0160732	1.61E-02	4.81E-03	1.82E-03
4984	457563	3768407	0.0166684	1.67E-02	4.99E-03	1.89E-03
4985	457573	3768407	0.0172574	1.73E-02	5.17E-03	1.96E-03
4986	457583	3768407	0.0178392	1.78E-02	5.34E-03	2.02E-03
4987	457593	3768407	0.01841	1.84E-02	5.51E-03	2.09E-03
4988	457602.9	3768407	0.0189717	1.90E-02	5.68E-03	2.15E-03
4989	457612.9	3768407	0.0195189	1.95E-02	5.85E-03	2.21E-03
4990	457622.9	3768407	0.0200517	2.01E-02	6.01E-03	2.27E-03
4991	457632.8	3768407	0.0205623	2.06E-02	6.16E-03	2.33E-03
4992	457642.8	3768407	0.0210386	2.10E-02	6.30E-03	2.39E-03
4993	457652.8	3768407	0.0214961	2.15E-02	6.44E-03	2.44E-03
4994	457662.8	3768407	0.0219389	2.19E-02	6.57E-03	2.49E-03
4995	457672.7	3768407	0.0223771	2.24E-02	6.70E-03	2.54E-03
4996	457682.7	3768407	0.0227894	2.28E-02	6.83E-03	2.59E-03
4997	457692.7	3768407	0.0231773	2.32E-02	6.94E-03	2.63E-03
4998	457702.6	3768407	0.0229427	2.29E-02	6.87E-03	2.60E-03
4999	457175.4	3768357	0.004812	4.81E-03	1.44E-03	5.46E-04
5000	457171.7	3768348	0.0049333	4.93E-03	1.48E-03	5.60E-04
5001	457168.1	3768339	0.0050598	5.06E-03	1.52E-03	5.74E-04
5002	457164.4	3768330	0.0051896	5.19E-03	1.55E-03	5.89E-04
5003	457160.7	3768321	0.0053206	5.32E-03	1.59E-03	6.04E-04
5004	457157	3768313	0.0054546	5.45E-03	1.63E-03	6.19E-04
5005	457153.3	3768304	0.0055908	5.59E-03	1.67E-03	6.34E-04
5006	457149.6	3768295	0.0057292	5.73E-03	1.72E-03	6.50E-04
5007	457145.9	3768286	0.0058709	5.87E-03	1.76E-03	6.66E-04
5008	457142.2	3768278	0.0060168	6.02E-03	1.80E-03	6.83E-04
5009	457138.5	3768269	0.0061653	6.17E-03	1.85E-03	6.99E-04
5010	457134.8	3768260	0.0063165	6.32E-03	1.89E-03	7.17E-04
5011	457131.1	3768251	0.0064692	6.47E-03	1.94E-03	7.34E-04
5012	457127.4	3768242	0.0066233	6.62E-03	1.98E-03	7.51E-04
5013	457174	3768396	0.0040994	4.10E-03	1.23E-03	4.65E-04
5014	457161.5	3768383	0.0041485	4.15E-03	1.24E-03	4.71E-04
5015	457157.8	3768374	0.0042445	4.24E-03	1.27E-03	4.82E-04
5016	457154.1	3768366	0.0043429	4.34E-03	1.30E-03	4.93E-04
5017	457150.4	3768357	0.0044435	4.44E-03	1.33E-03	5.04E-04
5018	457146.7	3768348	0.004547	4.55E-03	1.36E-03	5.16E-04
5019	457143.1	3768339	0.0046546	4.65E-03	1.39E-03	5.28E-04
5020	457139.4	3768330	0.0047632	4.76E-03	1.43E-03	5.40E-04
5021	457135.7	3768322	0.0048734	4.87E-03	1.46E-03	5.53E-04
5022	457132	3768313	0.0049857	4.99E-03	1.49E-03	5.66E-04
5023	457128.3	3768304	0.0050998	5.10E-03	1.53E-03	5.79E-04
5024	457124.6	3768295	0.0052159	5.22E-03	1.56E-03	5.92E-04
5025	457120.9	3768287	0.005334	5.33E-03	1.60E-03	6.05E-04
5026	457117.2	3768278	0.0054553	5.46E-03	1.63E-03	6.19E-04

5027	457113.5	3768269	0.0055785	5.58E-03	1.67E-03	6.33E-04
5028	457109.8	3768260	0.0057036	5.70E-03	1.71E-03	6.47E-04
5029	457106.1	3768251	0.0058297	5.83E-03	1.75E-03	6.61E-04
5030	457102.4	3768243	0.0059565	5.96E-03	1.78E-03	6.76E-04
5031	457333.8	3768457	0.0048237	4.82E-03	1.44E-03	5.47E-04
5032	457343.7	3768457	0.0049603	4.96E-03	1.49E-03	5.63E-04
5033	457353.7	3768457	0.0051054	5.11E-03	1.53E-03	5.79E-04
5034	457363.7	3768457	0.0052597	5.26E-03	1.58E-03	5.97E-04
5035	457373.6	3768457	0.0054238	5.42E-03	1.62E-03	6.15E-04
5036	457383.6	3768457	0.0055999	5.60E-03	1.68E-03	6.35E-04
5037	457393.6	3768457	0.005789	5.79E-03	1.73E-03	6.57E-04
5038	457403.5	3768457	0.0059931	5.99E-03	1.80E-03	6.80E-04
5039	457413.5	3768457	0.0062116	6.21E-03	1.86E-03	7.05E-04
5040	457423.5	3768457	0.0064452	6.45E-03	1.93E-03	7.31E-04
5041	457433.5	3768457	0.0066948	6.69E-03	2.01E-03	7.60E-04
5042	457443.4	3768457	0.0069599	6.96E-03	2.08E-03	7.90E-04
5043	457453.4	3768457	0.0072392	7.24E-03	2.17E-03	8.21E-04
5044	457463.4	3768457	0.00753	7.53E-03	2.26E-03	8.54E-04
5045	457473.3	3768457	0.0078359	7.84E-03	2.35E-03	8.89E-04
5046	457483.3	3768457	0.0081571	8.16E-03	2.44E-03	9.25E-04
5047	457493.3	3768457	0.0084939	8.49E-03	2.54E-03	9.64E-04
5048	457503.3	3768457	0.0088428	8.84E-03	2.65E-03	1.00E-03
5049	457513.2	3768457	0.0092047	9.20E-03	2.76E-03	1.04E-03
5050	457523.2	3768457	0.0095784	9.58E-03	2.87E-03	1.09E-03
5051	457533.2	3768457	0.0099612	9.96E-03	2.98E-03	1.13E-03
5052	457543.1	3768457	0.01035	1.03E-02	3.10E-03	1.17E-03
5053	457553.1	3768457	0.0107389	1.07E-02	3.22E-03	1.22E-03
5054	457563.1	3768457	0.0111333	1.11E-02	3.33E-03	1.26E-03
5055	457573	3768457	0.0115315	1.15E-02	3.45E-03	1.31E-03
5056	457583	3768457	0.0119358	1.19E-02	3.57E-03	1.35E-03
5057	457593	3768457	0.01234	1.23E-02	3.70E-03	1.40E-03
5058	457603	3768457	0.0127457	1.27E-02	3.82E-03	1.45E-03
5059	457612.9	3768457	0.0131514	1.32E-02	3.94E-03	1.49E-03
5060	457622.9	3768457	0.013554	1.36E-02	4.06E-03	1.54E-03
5061	457632.9	3768457	0.0139532	1.40E-02	4.18E-03	1.58E-03
5062	457642.8	3768457	0.0143457	1.43E-02	4.30E-03	1.63E-03
5063	457652.8	3768457	0.0147322	1.47E-02	4.41E-03	1.67E-03
5064	457662.8	3768457	0.0143597	1.44E-02	4.30E-03	1.63E-03
5065	457672.7	3768457	0.0147036	1.47E-02	4.40E-03	1.67E-03
5066	457682.7	3768457	0.0150404	1.50E-02	4.50E-03	1.71E-03
5067	457692.7	3768457	0.0153781	1.54E-02	4.61E-03	1.74E-03
5068	457702.7	3768457	0.0157215	1.57E-02	4.71E-03	1.78E-03
5069	457288.6	3768468	0.0041053	4.11E-03	1.23E-03	4.66E-04
5070	457279.8	3768464	0.0040819	4.08E-03	1.22E-03	4.63E-04
5071	457270.9	3768460	0.0040574	4.06E-03	1.22E-03	4.60E-04
5072	457262.1	3768457	0.0040322	4.03E-03	1.21E-03	4.57E-04
5073	457253.3	3768453	0.0040062	4.01E-03	1.20E-03	4.55E-04

5074	457244.5	3768450	0.0039795	3.98E-03	1.19E-03	4.51E-04
5075	457156.4	3768413	0.0036594	3.66E-03	1.10E-03	4.15E-04
5076	457143.9	3768401	0.0037011	3.70E-03	1.11E-03	4.20E-04
5077	457140.2	3768392	0.0037801	3.78E-03	1.13E-03	4.29E-04
5078	457136.5	3768383	0.0038611	3.86E-03	1.16E-03	4.38E-04
5079	457132.8	3768375	0.003944	3.94E-03	1.18E-03	4.47E-04
5080	457129.1	3768366	0.0040296	4.03E-03	1.21E-03	4.57E-04
5081	457125.4	3768357	0.0041174	4.12E-03	1.23E-03	4.67E-04
5082	457121.8	3768348	0.0042058	4.21E-03	1.26E-03	4.77E-04
5083	457118.1	3768339	0.0042959	4.30E-03	1.29E-03	4.87E-04
5084	457114.4	3768331	0.0043879	4.39E-03	1.31E-03	4.98E-04
5085	457110.7	3768322	0.0044816	4.48E-03	1.34E-03	5.08E-04
5086	457107	3768313	0.0045771	4.58E-03	1.37E-03	5.19E-04
5087	457103.3	3768304	0.0046739	4.67E-03	1.40E-03	5.30E-04
5088	457099.6	3768296	0.0047721	4.77E-03	1.43E-03	5.41E-04
5089	457095.9	3768287	0.0048719	4.87E-03	1.46E-03	5.53E-04
5090	457092.2	3768278	0.0049742	4.97E-03	1.49E-03	5.64E-04
5091	457088.5	3768269	0.0050778	5.08E-03	1.52E-03	5.76E-04
5092	457084.8	3768260	0.0051828	5.18E-03	1.55E-03	5.88E-04
5093	457081.1	3768252	0.0052881	5.29E-03	1.58E-03	6.00E-04
5094	457077.4	3768243	0.0053937	5.39E-03	1.62E-03	6.12E-04
5095	457333.8	3768482	0.0042939	4.29E-03	1.29E-03	4.87E-04
5096	457343.7	3768482	0.0044038	4.40E-03	1.32E-03	5.00E-04
5097	457353.7	3768482	0.0045198	4.52E-03	1.35E-03	5.13E-04
5098	457363.7	3768482	0.0046432	4.64E-03	1.39E-03	5.27E-04
5099	457373.6	3768482	0.0047742	4.77E-03	1.43E-03	5.42E-04
5100	457383.6	3768482	0.0049142	4.91E-03	1.47E-03	5.58E-04
5101	457393.6	3768482	0.0050624	5.06E-03	1.52E-03	5.74E-04
5102	457403.6	3768482	0.0052195	5.22E-03	1.56E-03	5.92E-04
5103	457413.5	3768482	0.0053871	5.39E-03	1.61E-03	6.11E-04
5104	457423.5	3768482	0.0055667	5.57E-03	1.67E-03	6.32E-04
5105	457433.5	3768482	0.0057604	5.76E-03	1.73E-03	6.54E-04
5106	457443.4	3768482	0.005966	5.97E-03	1.79E-03	6.77E-04
5107	457453.4	3768482	0.0061833	6.18E-03	1.85E-03	7.02E-04
5108	457463.4	3768482	0.0064109	6.41E-03	1.92E-03	7.27E-04
5109	457473.4	3768482	0.006651	6.65E-03	1.99E-03	7.55E-04
5110	457483.3	3768482	0.0069039	6.90E-03	2.07E-03	7.83E-04
5111	457493.3	3768482	0.0071711	7.17E-03	2.15E-03	8.14E-04
5112	457503.3	3768482	0.0074493	7.45E-03	2.23E-03	8.45E-04
5113	457513.2	3768482	0.0077373	7.74E-03	2.32E-03	8.78E-04
5114	457523.2	3768482	0.0080318	8.03E-03	2.41E-03	9.11E-04
5115	457533.2	3768482	0.0083354	8.34E-03	2.50E-03	9.46E-04
5116	457543.1	3768482	0.0086477	8.65E-03	2.59E-03	9.81E-04
5117	457553.1	3768482	0.0089667	8.97E-03	2.69E-03	1.02E-03
5118	457563.1	3768482	0.0092924	9.29E-03	2.78E-03	1.05E-03
5119	457573.1	3768482	0.0096244	9.62E-03	2.88E-03	1.09E-03
5120	457583	3768482	0.0099642	9.96E-03	2.98E-03	1.13E-03

5121	457593	3768482	0.0103065	1.03E-02	3.09E-03	1.17E-03
5122	457603	3768482	0.0106517	1.07E-02	3.19E-03	1.21E-03
5123	457612.9	3768482	0.0109973	1.10E-02	3.29E-03	1.25E-03
5124	457622.9	3768482	0.0113427	1.13E-02	3.40E-03	1.29E-03
5125	457632.9	3768482	0.0109619	1.10E-02	3.28E-03	1.24E-03
5126	457642.8	3768482	0.0112774	1.13E-02	3.38E-03	1.28E-03
5127	457652.8	3768482	0.0115937	1.16E-02	3.47E-03	1.32E-03
5128	457662.8	3768482	0.011908	1.19E-02	3.57E-03	1.35E-03
5129	457672.8	3768482	0.0122227	1.22E-02	3.66E-03	1.39E-03
5130	457682.7	3768482	0.0125334	1.25E-02	3.75E-03	1.42E-03
5131	457692.7	3768482	0.0128488	1.28E-02	3.85E-03	1.46E-03
5132	457702.7	3768482	0.0131752	1.32E-02	3.95E-03	1.49E-03
5133	457288.6	3768493	0.0036991	3.70E-03	1.11E-03	4.20E-04
5134	457279.8	3768489	0.0036819	3.68E-03	1.10E-03	4.18E-04
5135	457271	3768485	0.003664	3.66E-03	1.10E-03	4.16E-04
5136	457262.1	3768482	0.0036465	3.65E-03	1.09E-03	4.14E-04
5137	457253.3	3768478	0.0036278	3.63E-03	1.09E-03	4.12E-04
5138	457244.5	3768475	0.0036079	3.61E-03	1.08E-03	4.09E-04
5139	457235.7	3768471	0.0035865	3.59E-03	1.07E-03	4.07E-04
5140	457226.9	3768467	0.003564	3.56E-03	1.07E-03	4.04E-04
5141	457218.1	3768464	0.0035405	3.54E-03	1.06E-03	4.02E-04
5142	457209.3	3768460	0.0035162	3.52E-03	1.05E-03	3.99E-04
5143	457200.5	3768456	0.0034908	3.49E-03	1.05E-03	3.96E-04
5144	457191.7	3768453	0.0034647	3.46E-03	1.04E-03	3.93E-04
5145	457182.9	3768449	0.0034376	3.44E-03	1.03E-03	3.90E-04
5146	457122.6	3768410	0.0033936	3.39E-03	1.02E-03	3.85E-04
5147	457118.9	3768401	0.0034617	3.46E-03	1.04E-03	3.93E-04
5148	457115.2	3768392	0.0035307	3.53E-03	1.06E-03	4.01E-04
5149	457111.5	3768384	0.003601	3.60E-03	1.08E-03	4.09E-04
5150	457107.8	3768375	0.003673	3.67E-03	1.10E-03	4.17E-04
5151	457104.1	3768366	0.0037476	3.75E-03	1.12E-03	4.25E-04
5152	457100.4	3768357	0.003823	3.82E-03	1.15E-03	4.34E-04
5153	457096.8	3768348	0.0038994	3.90E-03	1.17E-03	4.42E-04
5154	457093.1	3768340	0.0039769	3.98E-03	1.19E-03	4.51E-04
5155	457089.4	3768331	0.0040561	4.06E-03	1.21E-03	4.60E-04
5156	457085.7	3768322	0.0041368	4.14E-03	1.24E-03	4.69E-04
5157	457082	3768313	0.0042185	4.22E-03	1.26E-03	4.79E-04
5158	457078.3	3768305	0.0043013	4.30E-03	1.29E-03	4.88E-04
5159	457074.6	3768296	0.0043857	4.39E-03	1.31E-03	4.98E-04
5160	457070.9	3768287	0.0044712	4.47E-03	1.34E-03	5.07E-04
5161	457067.2	3768278	0.0045585	4.56E-03	1.37E-03	5.17E-04
5162	457063.5	3768269	0.0046467	4.65E-03	1.39E-03	5.27E-04
5163	457059.8	3768261	0.0047358	4.74E-03	1.42E-03	5.37E-04
5164	457056.1	3768252	0.0048244	4.82E-03	1.44E-03	5.47E-04
5165	457052.4	3768243	0.004913	4.91E-03	1.47E-03	5.57E-04
5166	457333.8	3768507	0.0038534	3.85E-03	1.15E-03	4.37E-04
5167	457343.7	3768507	0.0039432	3.94E-03	1.18E-03	4.47E-04

5168	457353.7	3768507	0.0040376	4.04E-03	1.21E-03	4.58E-04
5169	457363.7	3768507	0.0041371	4.14E-03	1.24E-03	4.69E-04
5170	457373.7	3768507	0.0042415	4.24E-03	1.27E-03	4.81E-04
5171	457383.6	3768507	0.0043525	4.35E-03	1.30E-03	4.94E-04
5172	457393.6	3768507	0.00447	4.47E-03	1.34E-03	5.07E-04
5173	457403.6	3768507	0.0045945	4.59E-03	1.38E-03	5.21E-04
5174	457413.5	3768507	0.0047267	4.73E-03	1.42E-03	5.36E-04
5175	457423.5	3768507	0.0048685	4.87E-03	1.46E-03	5.52E-04
5176	457433.5	3768507	0.0050212	5.02E-03	1.50E-03	5.70E-04
5177	457443.5	3768507	0.0051832	5.18E-03	1.55E-03	5.88E-04
5178	457453.4	3768507	0.0053554	5.36E-03	1.60E-03	6.08E-04
5179	457463.4	3768507	0.0055374	5.54E-03	1.66E-03	6.28E-04
5180	457473.4	3768507	0.0057298	5.73E-03	1.72E-03	6.50E-04
5181	457483.3	3768507	0.0059314	5.93E-03	1.78E-03	6.73E-04
5182	457493.3	3768507	0.006142	6.14E-03	1.84E-03	6.97E-04
5183	457503.3	3768507	0.0063618	6.36E-03	1.91E-03	7.22E-04
5184	457513.2	3768507	0.0065907	6.59E-03	1.97E-03	7.48E-04
5185	457523.2	3768507	0.0068271	6.83E-03	2.04E-03	7.75E-04
5186	457533.2	3768507	0.0070717	7.07E-03	2.12E-03	8.02E-04
5187	457543.2	3768507	0.0073261	7.33E-03	2.19E-03	8.31E-04
5188	457553.1	3768507	0.0075903	7.59E-03	2.27E-03	8.61E-04
5189	457563.1	3768507	0.0078618	7.86E-03	2.35E-03	8.92E-04
5190	457573.1	3768507	0.0075459	7.55E-03	2.26E-03	8.56E-04
5191	457583	3768507	0.0077955	7.80E-03	2.33E-03	8.84E-04
5192	457593	3768507	0.0080507	8.05E-03	2.41E-03	9.13E-04
5193	457603	3768507	0.0083175	8.32E-03	2.49E-03	9.44E-04
5194	457612.9	3768507	0.0085999	8.60E-03	2.58E-03	9.76E-04
5195	457622.9	3768507	0.0088868	8.89E-03	2.66E-03	1.01E-03
5196	457632.9	3768507	0.0091676	9.17E-03	2.75E-03	1.04E-03
5197	457642.9	3768507	0.0094299	9.43E-03	2.82E-03	1.07E-03
5198	457652.8	3768507	0.0096945	9.69E-03	2.90E-03	1.10E-03
5199	457662.8	3768507	0.0099683	9.97E-03	2.99E-03	1.13E-03
5200	457672.8	3768507	0.0102644	1.03E-02	3.07E-03	1.16E-03
5201	457682.7	3768507	0.010559	1.06E-02	3.16E-03	1.20E-03
5202	457692.7	3768507	0.0108467	1.08E-02	3.25E-03	1.23E-03
5203	457702.7	3768507	0.0111199	1.11E-02	3.33E-03	1.26E-03
5204	457296.2	3768521	0.0033684	3.37E-03	1.01E-03	3.82E-04
5205	457287.1	3768517	0.0033543	3.35E-03	1.00E-03	3.81E-04
5206	457277.9	3768513	0.0033398	3.34E-03	1.00E-03	3.79E-04
5207	457268.7	3768509	0.0033251	3.33E-03	9.96E-04	3.77E-04
5208	457259.5	3768506	0.0033106	3.31E-03	9.92E-04	3.76E-04
5209	457250.3	3768502	0.0032959	3.30E-03	9.87E-04	3.74E-04
5210	457241.1	3768498	0.0032809	3.28E-03	9.83E-04	3.72E-04
5211	457231.9	3768494	0.0032636	3.26E-03	9.77E-04	3.70E-04
5212	457222.7	3768491	0.0032449	3.24E-03	9.72E-04	3.68E-04
5213	457213.5	3768487	0.0032254	3.23E-03	9.66E-04	3.66E-04
5214	457204.3	3768483	0.0032049	3.20E-03	9.60E-04	3.64E-04

5215	457195.1	3768479	0.0031834	3.18E-03	9.53E-04	3.61E-04
5216	457185.9	3768475	0.0031611	3.16E-03	9.47E-04	3.59E-04
5217	457176.8	3768472	0.003138	3.14E-03	9.40E-04	3.56E-04
5218	457167.6	3768468	0.0031139	3.11E-03	9.33E-04	3.53E-04
5219	457158.4	3768464	0.0030891	3.09E-03	9.25E-04	3.50E-04
5220	457149.2	3768460	0.0030636	3.06E-03	9.18E-04	3.48E-04
5221	457140	3768457	0.0030373	3.04E-03	9.10E-04	3.45E-04
5222	457130.8	3768453	0.0030102	3.01E-03	9.02E-04	3.42E-04
5223	457121.6	3768449	0.0029829	2.98E-03	8.93E-04	3.38E-04
5224	457097	3768409	0.0031944	3.19E-03	9.57E-04	3.62E-04
5225	457093.1	3768399	0.0032566	3.26E-03	9.75E-04	3.69E-04
5226	457089.3	3768390	0.00332	3.32E-03	9.94E-04	3.77E-04
5227	457085.4	3768381	0.0033845	3.38E-03	1.01E-03	3.84E-04
5228	457081.6	3768372	0.0034509	3.45E-03	1.03E-03	3.92E-04
5229	457077.7	3768363	0.0035192	3.52E-03	1.05E-03	3.99E-04
5230	457073.8	3768354	0.003588	3.59E-03	1.07E-03	4.07E-04
5231	457070	3768344	0.0036579	3.66E-03	1.10E-03	4.15E-04
5232	457066.1	3768335	0.0037286	3.73E-03	1.12E-03	4.23E-04
5233	457062.3	3768326	0.0038005	3.80E-03	1.14E-03	4.31E-04
5234	457058.4	3768317	0.0038734	3.87E-03	1.16E-03	4.39E-04
5235	457054.6	3768308	0.0039484	3.95E-03	1.18E-03	4.48E-04
5236	457050.7	3768299	0.0040245	4.02E-03	1.21E-03	4.57E-04
5237	457046.8	3768289	0.0041019	4.10E-03	1.23E-03	4.65E-04
5238	457043	3768280	0.0041799	4.18E-03	1.25E-03	4.74E-04
5239	457039.1	3768271	0.0042581	4.26E-03	1.28E-03	4.83E-04
5240	457035.3	3768262	0.0043366	4.34E-03	1.30E-03	4.92E-04
5241	457031.4	3768253	0.0044155	4.42E-03	1.32E-03	5.01E-04
5242	457027.6	3768244	0.0044958	4.50E-03	1.35E-03	5.10E-04
5243	457333.8	3768532	0.0034792	3.48E-03	1.04E-03	3.95E-04
5244	457343.8	3768532	0.0035535	3.55E-03	1.06E-03	4.03E-04
5245	457353.7	3768532	0.0036312	3.63E-03	1.09E-03	4.12E-04
5246	457363.7	3768532	0.0037124	3.71E-03	1.11E-03	4.21E-04
5247	457373.7	3768532	0.0037965	3.80E-03	1.14E-03	4.31E-04
5248	457383.6	3768532	0.0038855	3.89E-03	1.16E-03	4.41E-04
5249	457393.6	3768532	0.0039805	3.98E-03	1.19E-03	4.52E-04
5250	457403.6	3768532	0.0040829	4.08E-03	1.22E-03	4.63E-04
5251	457413.6	3768532	0.0041914	4.19E-03	1.26E-03	4.76E-04
5252	457423.5	3768532	0.0043064	4.31E-03	1.29E-03	4.89E-04
5253	457433.5	3768532	0.0044284	4.43E-03	1.33E-03	5.02E-04
5254	457443.5	3768532	0.0045576	4.56E-03	1.37E-03	5.17E-04
5255	457453.4	3768532	0.004695	4.70E-03	1.41E-03	5.33E-04
5256	457463.4	3768532	0.0048407	4.84E-03	1.45E-03	5.49E-04
5257	457473.4	3768532	0.0049949	4.99E-03	1.50E-03	5.67E-04
5258	457483.3	3768532	0.0051559	5.16E-03	1.54E-03	5.85E-04
5259	457493.3	3768532	0.0053231	5.32E-03	1.59E-03	6.04E-04
5260	457503.3	3768532	0.0054981	5.50E-03	1.65E-03	6.24E-04
5261	457513.3	3768532	0.0056827	5.68E-03	1.70E-03	6.45E-04

5262	457523.2	3768532	0.0058775	5.88E-03	1.76E-03	6.67E-04
5263	457533.2	3768532	0.00608	6.08E-03	1.82E-03	6.90E-04
5264	457543.2	3768532	0.0058396	5.84E-03	1.75E-03	6.63E-04
5265	457553.1	3768532	0.0060276	6.03E-03	1.81E-03	6.84E-04
5266	457563.1	3768532	0.0062242	6.22E-03	1.86E-03	7.06E-04
5267	457573.1	3768532	0.0064198	6.42E-03	1.92E-03	7.28E-04
5268	457583	3768532	0.0066066	6.61E-03	1.98E-03	7.50E-04
5269	457593	3768532	0.0067984	6.80E-03	2.04E-03	7.71E-04
5270	457603	3768532	0.007006	7.01E-03	2.10E-03	7.95E-04
5271	457613	3768532	0.0072388	7.24E-03	2.17E-03	8.21E-04
5272	457622.9	3768532	0.007477	7.48E-03	2.24E-03	8.48E-04
5273	457632.9	3768532	0.0077202	7.72E-03	2.31E-03	8.76E-04
5274	457642.9	3768532	0.0079669	7.97E-03	2.39E-03	9.04E-04
5275	457652.8	3768532	0.0082175	8.22E-03	2.46E-03	9.32E-04
5276	457662.8	3768532	0.0084674	8.47E-03	2.54E-03	9.61E-04
5277	457672.8	3768532	0.0087147	8.71E-03	2.61E-03	9.89E-04
5278	457682.7	3768532	0.0089611	8.96E-03	2.68E-03	1.02E-03
5279	457692.7	3768532	0.009202	9.20E-03	2.76E-03	1.04E-03
5280	457702.7	3768532	0.009423	9.42E-03	2.82E-03	1.07E-03
5281	457296.3	3768546	0.0030679	3.07E-03	9.19E-04	3.48E-04
5282	457287.2	3768542	0.0030586	3.06E-03	9.16E-04	3.47E-04
5283	457278	3768538	0.0030486	3.05E-03	9.13E-04	3.46E-04
5284	457268.9	3768535	0.0030378	3.04E-03	9.10E-04	3.45E-04
5285	457259.7	3768531	0.0030259	3.03E-03	9.06E-04	3.43E-04
5286	457250.5	3768527	0.0030136	3.01E-03	9.03E-04	3.42E-04
5287	457241.4	3768523	0.003001	3.00E-03	8.99E-04	3.40E-04
5288	457232.2	3768519	0.0029879	2.99E-03	8.95E-04	3.39E-04
5289	457223.1	3768516	0.002974	2.97E-03	8.91E-04	3.37E-04
5290	457213.9	3768512	0.0029593	2.96E-03	8.86E-04	3.36E-04
5291	457204.7	3768508	0.0029438	2.94E-03	8.82E-04	3.34E-04
5292	457195.6	3768504	0.0029273	2.93E-03	8.77E-04	3.32E-04
5293	457186.4	3768501	0.0029102	2.91E-03	8.72E-04	3.30E-04
5294	457177.3	3768497	0.0028922	2.89E-03	8.66E-04	3.28E-04
5295	457168.1	3768493	0.002873	2.87E-03	8.60E-04	3.26E-04
5296	457158.9	3768489	0.0028529	2.85E-03	8.54E-04	3.24E-04
5297	457149.8	3768486	0.0028321	2.83E-03	8.48E-04	3.21E-04
5298	457140.6	3768482	0.0028102	2.81E-03	8.42E-04	3.19E-04
5299	457131.5	3768478	0.0027878	2.79E-03	8.35E-04	3.16E-04
5300	457122.3	3768474	0.0027651	2.77E-03	8.28E-04	3.14E-04
5301	457113.1	3768470	0.0027422	2.74E-03	8.21E-04	3.11E-04
5302	457104	3768467	0.0027189	2.72E-03	8.14E-04	3.08E-04
5303	457091	3768454	0.0027437	2.74E-03	8.22E-04	3.11E-04
5304	457071.7	3768408	0.0030048	3.00E-03	9.00E-04	3.41E-04
5305	457067.9	3768399	0.0030595	3.06E-03	9.16E-04	3.47E-04
5306	457064.1	3768390	0.0031152	3.12E-03	9.33E-04	3.53E-04
5307	457060.2	3768381	0.0031719	3.17E-03	9.50E-04	3.60E-04
5308	457056.4	3768372	0.0032306	3.23E-03	9.68E-04	3.67E-04

5309	457052.5	3768362	0.0032903	3.29E-03	9.86E-04	3.73E-04
5310	457048.7	3768353	0.0033503	3.35E-03	1.00E-03	3.80E-04
5311	457044.8	3768344	0.0034109	3.41E-03	1.02E-03	3.87E-04
5312	457041	3768335	0.0034726	3.47E-03	1.04E-03	3.94E-04
5313	457037.1	3768326	0.0035356	3.54E-03	1.06E-03	4.01E-04
5314	457033.3	3768317	0.0035997	3.60E-03	1.08E-03	4.08E-04
5315	457029.5	3768308	0.0036651	3.67E-03	1.10E-03	4.16E-04
5316	457025.6	3768299	0.0037311	3.73E-03	1.12E-03	4.23E-04
5317	457021.8	3768289	0.0037978	3.80E-03	1.14E-03	4.31E-04
5318	457017.9	3768280	0.0038647	3.86E-03	1.16E-03	4.38E-04
5319	457014.1	3768271	0.0039323	3.93E-03	1.18E-03	4.46E-04
5320	457010.2	3768262	0.0040005	4.00E-03	1.20E-03	4.54E-04
5321	457006.4	3768253	0.0040695	4.07E-03	1.22E-03	4.62E-04
5322	457002.5	3768244	0.0041388	4.14E-03	1.24E-03	4.70E-04
5323	457333.8	3768557	0.003156	3.16E-03	9.45E-04	3.58E-04
5324	457343.8	3768557	0.0032178	3.22E-03	9.64E-04	3.65E-04
5325	457353.7	3768557	0.0032824	3.28E-03	9.83E-04	3.72E-04
5326	457363.7	3768557	0.0033503	3.35E-03	1.00E-03	3.80E-04
5327	457373.7	3768557	0.0034215	3.42E-03	1.02E-03	3.88E-04
5328	457383.7	3768557	0.0034967	3.50E-03	1.05E-03	3.97E-04
5329	457393.6	3768557	0.003576	3.58E-03	1.07E-03	4.06E-04
5330	457403.6	3768557	0.0036599	3.66E-03	1.10E-03	4.15E-04
5331	457413.6	3768557	0.0037486	3.75E-03	1.12E-03	4.25E-04
5332	457423.5	3768557	0.0038416	3.84E-03	1.15E-03	4.36E-04
5333	457433.5	3768557	0.0039385	3.94E-03	1.18E-03	4.47E-04
5334	457443.5	3768557	0.0040411	4.04E-03	1.21E-03	4.58E-04
5335	457453.4	3768557	0.0041509	4.15E-03	1.24E-03	4.71E-04
5336	457463.4	3768557	0.0042689	4.27E-03	1.28E-03	4.84E-04
5337	457473.4	3768557	0.0043937	4.39E-03	1.32E-03	4.98E-04
5338	457483.4	3768557	0.0045252	4.53E-03	1.36E-03	5.13E-04
5339	457493.3	3768557	0.0046638	4.66E-03	1.40E-03	5.29E-04
5340	457503.3	3768557	0.0048092	4.81E-03	1.44E-03	5.46E-04
5341	457513.3	3768557	0.0049619	4.96E-03	1.49E-03	5.63E-04
5342	457523.2	3768557	0.0047792	4.78E-03	1.43E-03	5.42E-04
5343	457533.2	3768557	0.0049233	4.92E-03	1.47E-03	5.59E-04
5344	457543.2	3768557	0.0050656	5.07E-03	1.52E-03	5.75E-04
5345	457553.1	3768557	0.0051962	5.20E-03	1.56E-03	5.90E-04
5346	457563.1	3768557	0.0053331	5.33E-03	1.60E-03	6.05E-04
5347	457573.1	3768557	0.0054843	5.48E-03	1.64E-03	6.22E-04
5348	457583.1	3768557	0.0056597	5.66E-03	1.70E-03	6.42E-04
5349	457593	3768557	0.0058412	5.84E-03	1.75E-03	6.63E-04
5350	457603	3768557	0.0060292	6.03E-03	1.81E-03	6.84E-04
5351	457613	3768557	0.0062226	6.22E-03	1.86E-03	7.06E-04
5352	457622.9	3768557	0.0064212	6.42E-03	1.92E-03	7.29E-04
5353	457632.9	3768557	0.0066251	6.63E-03	1.98E-03	7.52E-04
5354	457642.9	3768557	0.006832	6.83E-03	2.05E-03	7.75E-04
5355	457652.8	3768557	0.0070431	7.04E-03	2.11E-03	7.99E-04

5356	457662.8	3768557	0.0072461	7.25E-03	2.17E-03	8.22E-04
5357	457672.8	3768557	0.0074291	7.43E-03	2.23E-03	8.43E-04
5358	457682.8	3768557	0.0076122	7.61E-03	2.28E-03	8.64E-04
5359	457692.7	3768557	0.0078085	7.81E-03	2.34E-03	8.86E-04
5360	457702.7	3768557	0.0080305	8.03E-03	2.41E-03	9.11E-04
5361	457296.4	3768571	0.0028082	2.81E-03	8.41E-04	3.19E-04
5362	457287.3	3768567	0.0028011	2.80E-03	8.39E-04	3.18E-04
5363	457278.2	3768563	0.002794	2.79E-03	8.37E-04	3.17E-04
5364	457269	3768560	0.0027868	2.79E-03	8.35E-04	3.16E-04
5365	457259.9	3768556	0.0027783	2.78E-03	8.32E-04	3.15E-04
5366	457250.8	3768552	0.0027688	2.77E-03	8.29E-04	3.14E-04
5367	457241.6	3768548	0.0027588	2.76E-03	8.26E-04	3.13E-04
5368	457232.5	3768545	0.0027483	2.75E-03	8.23E-04	3.12E-04
5369	457223.4	3768541	0.0027372	2.74E-03	8.20E-04	3.11E-04
5370	457214.2	3768537	0.0027253	2.73E-03	8.16E-04	3.09E-04
5371	457205.1	3768533	0.0027128	2.71E-03	8.13E-04	3.08E-04
5372	457196	3768530	0.0026995	2.70E-03	8.09E-04	3.06E-04
5373	457186.8	3768526	0.0026857	2.69E-03	8.04E-04	3.05E-04
5374	457177.7	3768522	0.0026714	2.67E-03	8.00E-04	3.03E-04
5375	457168.6	3768518	0.0026565	2.66E-03	7.96E-04	3.01E-04
5376	457159.4	3768515	0.0026407	2.64E-03	7.91E-04	3.00E-04
5377	457150.3	3768511	0.0026243	2.62E-03	7.86E-04	2.98E-04
5378	457141.1	3768507	0.0026066	2.61E-03	7.81E-04	2.96E-04
5379	457132	3768503	0.0025881	2.59E-03	7.75E-04	2.94E-04
5380	457122.9	3768499	0.0025688	2.57E-03	7.69E-04	2.91E-04
5381	457113.7	3768496	0.0025494	2.55E-03	7.64E-04	2.89E-04
5382	457104.6	3768492	0.00253	2.53E-03	7.58E-04	2.87E-04
5383	457095.5	3768488	0.0025101	2.51E-03	7.52E-04	2.85E-04
5384	457086.3	3768484	0.0024899	2.49E-03	7.46E-04	2.82E-04
5385	457073.4	3768472	0.002512	2.51E-03	7.52E-04	2.85E-04
5386	457069.5	3768462	0.0025552	2.56E-03	7.65E-04	2.90E-04
5387	457065.7	3768453	0.0025987	2.60E-03	7.78E-04	2.95E-04
5388	457046.5	3768408	0.0028304	2.83E-03	8.48E-04	3.21E-04
5389	457042.7	3768399	0.0028793	2.88E-03	8.62E-04	3.27E-04
5390	457038.9	3768390	0.0029292	2.93E-03	8.77E-04	3.32E-04
5391	457035	3768381	0.0029798	2.98E-03	8.92E-04	3.38E-04
5392	457031.2	3768371	0.0030309	3.03E-03	9.08E-04	3.44E-04
5393	457027.4	3768362	0.0030825	3.08E-03	9.23E-04	3.50E-04
5394	457023.5	3768353	0.003135	3.13E-03	9.39E-04	3.56E-04
5395	457019.7	3768344	0.0031885	3.19E-03	9.55E-04	3.62E-04
5396	457015.9	3768335	0.0032433	3.24E-03	9.71E-04	3.68E-04
5397	457012	3768326	0.003299	3.30E-03	9.88E-04	3.74E-04
5398	457008.2	3768317	0.0033555	3.36E-03	1.01E-03	3.81E-04
5399	457004.4	3768308	0.0034123	3.41E-03	1.02E-03	3.87E-04
5400	457000.5	3768299	0.0034696	3.47E-03	1.04E-03	3.94E-04
5401	456996.7	3768289	0.0035271	3.53E-03	1.06E-03	4.00E-04
5402	456992.9	3768280	0.003586	3.59E-03	1.07E-03	4.07E-04

5403	456989	3768271	0.0036458	3.65E-03	1.09E-03	4.14E-04
5404	456985.2	3768262	0.0037057	3.71E-03	1.11E-03	4.20E-04
5405	456981.4	3768253	0.0037661	3.77E-03	1.13E-03	4.27E-04
5406	456977.5	3768244	0.0038263	3.83E-03	1.15E-03	4.34E-04
5407	457333.8	3768582	0.0028815	2.88E-03	8.63E-04	3.27E-04
5408	457343.8	3768582	0.0029338	2.93E-03	8.79E-04	3.33E-04
5409	457353.8	3768582	0.0029882	2.99E-03	8.95E-04	3.39E-04
5410	457363.7	3768582	0.0030452	3.05E-03	9.12E-04	3.45E-04
5411	457373.7	3768582	0.0031049	3.10E-03	9.30E-04	3.52E-04
5412	457383.7	3768582	0.0031677	3.17E-03	9.49E-04	3.59E-04
5413	457393.6	3768582	0.0032329	3.23E-03	9.68E-04	3.67E-04
5414	457403.6	3768582	0.0033009	3.30E-03	9.89E-04	3.75E-04
5415	457413.6	3768582	0.0033724	3.37E-03	1.01E-03	3.83E-04
5416	457423.5	3768582	0.0034486	3.45E-03	1.03E-03	3.91E-04
5417	457433.5	3768582	0.0035304	3.53E-03	1.06E-03	4.01E-04
5418	457443.5	3768582	0.0036168	3.62E-03	1.08E-03	4.10E-04
5419	457453.5	3768582	0.0037084	3.71E-03	1.11E-03	4.21E-04
5420	457463.4	3768582	0.0038053	3.81E-03	1.14E-03	4.32E-04
5421	457473.4	3768582	0.0039078	3.91E-03	1.17E-03	4.43E-04
5422	457483.4	3768582	0.0040158	4.02E-03	1.20E-03	4.56E-04
5423	457493.3	3768582	0.0041297	4.13E-03	1.24E-03	4.69E-04
5424	457503.3	3768582	0.0042492	4.25E-03	1.27E-03	4.82E-04
5425	457513.3	3768582	0.0040969	4.10E-03	1.23E-03	4.65E-04
5426	457523.2	3768582	0.0041924	4.19E-03	1.26E-03	4.76E-04
5427	457533.2	3768582	0.0042916	4.29E-03	1.29E-03	4.87E-04
5428	457543.2	3768582	0.0044016	4.40E-03	1.32E-03	4.99E-04
5429	457553.2	3768582	0.0045253	4.53E-03	1.36E-03	5.13E-04
5430	457563.1	3768582	0.0046549	4.65E-03	1.39E-03	5.28E-04
5431	457573.1	3768582	0.0047912	4.79E-03	1.44E-03	5.44E-04
5432	457583.1	3768582	0.0049357	4.94E-03	1.48E-03	5.60E-04
5433	457593	3768582	0.0050857	5.09E-03	1.52E-03	5.77E-04
5434	457603	3768582	0.0052416	5.24E-03	1.57E-03	5.95E-04
5435	457613	3768582	0.0054025	5.40E-03	1.62E-03	6.13E-04
5436	457622.9	3768582	0.0055684	5.57E-03	1.67E-03	6.32E-04
5437	457632.9	3768582	0.0057306	5.73E-03	1.72E-03	6.50E-04
5438	457642.9	3768582	0.0058799	5.88E-03	1.76E-03	6.67E-04
5439	457652.9	3768582	0.0060329	6.03E-03	1.81E-03	6.84E-04
5440	457662.8	3768582	0.0061946	6.19E-03	1.86E-03	7.03E-04
5441	457672.8	3768582	0.0063746	6.37E-03	1.91E-03	7.23E-04
5442	457682.8	3768582	0.0065571	6.56E-03	1.96E-03	7.44E-04
5443	457692.7	3768582	0.0067445	6.74E-03	2.02E-03	7.65E-04
5444	457702.7	3768582	0.0069366	6.94E-03	2.08E-03	7.87E-04
5445	457296.5	3768596	0.0025824	2.58E-03	7.73E-04	2.93E-04
5446	457287.4	3768592	0.0025764	2.58E-03	7.72E-04	2.92E-04
5447	457278.3	3768588	0.0025702	2.57E-03	7.70E-04	2.92E-04
5448	457269.2	3768585	0.0025639	2.56E-03	7.68E-04	2.91E-04
5449	457260.1	3768581	0.0025584	2.56E-03	7.66E-04	2.90E-04

5450	457251	3768577	0.0025523	2.55E-03	7.64E-04	2.90E-04
5451	457241.8	3768573	0.0025454	2.55E-03	7.62E-04	2.89E-04
5452	457232.7	3768570	0.0025375	2.54E-03	7.60E-04	2.88E-04
5453	457223.6	3768566	0.0025288	2.53E-03	7.57E-04	2.87E-04
5454	457214.5	3768562	0.0025197	2.52E-03	7.55E-04	2.86E-04
5455	457205.4	3768558	0.0025099	2.51E-03	7.52E-04	2.85E-04
5456	457196.3	3768555	0.0024996	2.50E-03	7.49E-04	2.84E-04
5457	457187.2	3768551	0.0024886	2.49E-03	7.45E-04	2.82E-04
5458	457178.1	3768547	0.0024769	2.48E-03	7.42E-04	2.81E-04
5459	457168.9	3768543	0.0024647	2.46E-03	7.38E-04	2.80E-04
5460	457159.8	3768540	0.0024517	2.45E-03	7.34E-04	2.78E-04
5461	457150.7	3768536	0.0024382	2.44E-03	7.30E-04	2.77E-04
5462	457141.6	3768532	0.002424	2.42E-03	7.26E-04	2.75E-04
5463	457132.5	3768528	0.0024092	2.41E-03	7.22E-04	2.73E-04
5464	457123.4	3768525	0.0023938	2.39E-03	7.17E-04	2.72E-04
5465	457114.3	3768521	0.0023779	2.38E-03	7.12E-04	2.70E-04
5466	457105.2	3768517	0.0023615	2.36E-03	7.07E-04	2.68E-04
5467	457096	3768513	0.0023445	2.34E-03	7.02E-04	2.66E-04
5468	457086.9	3768510	0.0023272	2.33E-03	6.97E-04	2.64E-04
5469	457077.8	3768506	0.0023095	2.31E-03	6.92E-04	2.62E-04
5470	457068.7	3768502	0.0022914	2.29E-03	6.86E-04	2.60E-04
5471	457055.8	3768489	0.00231	2.31E-03	6.92E-04	2.62E-04
5472	457052	3768480	0.0023477	2.35E-03	7.03E-04	2.66E-04
5473	457048.1	3768471	0.0023859	2.39E-03	7.15E-04	2.71E-04
5474	457044.3	3768462	0.0024247	2.42E-03	7.26E-04	2.75E-04
5475	457040.5	3768453	0.002464	2.46E-03	7.38E-04	2.80E-04
5476	457021.4	3768408	0.0026702	2.67E-03	8.00E-04	3.03E-04
5477	457017.5	3768399	0.0027141	2.71E-03	8.13E-04	3.08E-04
5478	457013.7	3768389	0.0027586	2.76E-03	8.26E-04	3.13E-04
5479	457009.9	3768380	0.0028033	2.80E-03	8.40E-04	3.18E-04
5480	457006.1	3768371	0.0028487	2.85E-03	8.53E-04	3.23E-04
5481	457002.2	3768362	0.0028947	2.89E-03	8.67E-04	3.28E-04
5482	456998.4	3768353	0.0029413	2.94E-03	8.81E-04	3.34E-04
5483	456994.6	3768344	0.0029888	2.99E-03	8.95E-04	3.39E-04
5484	456990.8	3768335	0.0030375	3.04E-03	9.10E-04	3.45E-04
5485	456986.9	3768326	0.0030867	3.09E-03	9.25E-04	3.50E-04
5486	456983.1	3768317	0.0031368	3.14E-03	9.40E-04	3.56E-04
5487	456979.3	3768308	0.0031868	3.19E-03	9.54E-04	3.62E-04
5488	456975.5	3768299	0.0032373	3.24E-03	9.70E-04	3.67E-04
5489	456971.6	3768290	0.0032882	3.29E-03	9.85E-04	3.73E-04
5490	456967.8	3768280	0.0033401	3.34E-03	1.00E-03	3.79E-04
5491	456964	3768271	0.0033926	3.39E-03	1.02E-03	3.85E-04
5492	456960.2	3768262	0.0034452	3.45E-03	1.03E-03	3.91E-04
5493	456956.3	3768253	0.0034979	3.50E-03	1.05E-03	3.97E-04
5494	456952.5	3768244	0.0035503	3.55E-03	1.06E-03	4.03E-04
5495	457333.8	3768607	0.0026425	2.64E-03	7.91E-04	3.00E-04
5496	457343.8	3768607	0.002686	2.69E-03	8.04E-04	3.05E-04

5497	457353.8	3768607	0.0027312	2.73E-03	8.18E-04	3.10E-04
5498	457363.7	3768607	0.0027788	2.78E-03	8.32E-04	3.15E-04
5499	457373.7	3768607	0.0028292	2.83E-03	8.47E-04	3.21E-04
5500	457383.7	3768607	0.0028821	2.88E-03	8.63E-04	3.27E-04
5501	457393.6	3768607	0.0029373	2.94E-03	8.80E-04	3.33E-04
5502	457403.6	3768607	0.0029952	3.00E-03	8.97E-04	3.40E-04
5503	457413.6	3768607	0.003056	3.06E-03	9.15E-04	3.47E-04
5504	457423.6	3768607	0.0031204	3.12E-03	9.35E-04	3.54E-04
5505	457433.5	3768607	0.0031889	3.19E-03	9.55E-04	3.62E-04
5506	457443.5	3768607	0.0032611	3.26E-03	9.77E-04	3.70E-04
5507	457453.5	3768607	0.0033375	3.34E-03	1.00E-03	3.79E-04
5508	457463.4	3768607	0.003418	3.42E-03	1.02E-03	3.88E-04
5509	457473.4	3768607	0.0035031	3.50E-03	1.05E-03	3.97E-04
5510	457483.4	3768607	0.0034039	3.40E-03	1.02E-03	3.86E-04
5511	457493.3	3768607	0.0034736	3.47E-03	1.04E-03	3.94E-04
5512	457503.3	3768607	0.0035464	3.55E-03	1.06E-03	4.02E-04
5513	457513.3	3768607	0.003625	3.63E-03	1.09E-03	4.11E-04
5514	457523.3	3768607	0.0037109	3.71E-03	1.11E-03	4.21E-04
5515	457533.2	3768607	0.003801	3.80E-03	1.14E-03	4.31E-04
5516	457543.2	3768607	0.0038972	3.90E-03	1.17E-03	4.42E-04
5517	457553.2	3768607	0.0040016	4.00E-03	1.20E-03	4.54E-04
5518	457563.1	3768607	0.0041112	4.11E-03	1.23E-03	4.66E-04
5519	457573.1	3768607	0.0042208	4.22E-03	1.26E-03	4.79E-04
5520	457583.1	3768607	0.0043259	4.33E-03	1.30E-03	4.91E-04
5521	457593.1	3768607	0.0044347	4.43E-03	1.33E-03	5.03E-04
5522	457603	3768607	0.0045528	4.55E-03	1.36E-03	5.17E-04
5523	457613	3768607	0.0046852	4.69E-03	1.40E-03	5.32E-04
5524	457623	3768607	0.0048223	4.82E-03	1.44E-03	5.47E-04
5525	457632.9	3768607	0.004962	4.96E-03	1.49E-03	5.63E-04
5526	457642.9	3768607	0.0050994	5.10E-03	1.53E-03	5.79E-04
5527	457652.9	3768607	0.0052411	5.24E-03	1.57E-03	5.95E-04
5528	457662.8	3768607	0.0053887	5.39E-03	1.61E-03	6.11E-04
5529	457672.8	3768607	0.0055459	5.55E-03	1.66E-03	6.29E-04
5530	457682.8	3768607	0.005706	5.71E-03	1.71E-03	6.47E-04
5531	457692.8	3768607	0.0058632	5.86E-03	1.76E-03	6.65E-04
5532	457702.7	3768607	0.006008	6.01E-03	1.80E-03	6.82E-04
5533	457296.6	3768621	0.0023834	2.38E-03	7.14E-04	2.70E-04
5534	457287.5	3768617	0.0023793	2.38E-03	7.13E-04	2.70E-04
5535	457278.4	3768613	0.0023747	2.37E-03	7.11E-04	2.69E-04
5536	457269.3	3768610	0.0023698	2.37E-03	7.10E-04	2.69E-04
5537	457260.2	3768606	0.0023651	2.37E-03	7.08E-04	2.68E-04
5538	457251.1	3768602	0.0023603	2.36E-03	7.07E-04	2.68E-04
5539	457242	3768598	0.0023553	2.36E-03	7.05E-04	2.67E-04
5540	457232.9	3768595	0.0023496	2.35E-03	7.04E-04	2.67E-04
5541	457223.8	3768591	0.0023434	2.34E-03	7.02E-04	2.66E-04
5542	457214.8	3768587	0.0023367	2.34E-03	7.00E-04	2.65E-04
5543	457205.7	3768584	0.0023292	2.33E-03	6.98E-04	2.64E-04

5544	457196.6	3768580	0.002321	2.32E-03	6.95E-04	2.63E-04
5545	457187.5	3768576	0.0023124	2.31E-03	6.93E-04	2.62E-04
5546	457178.4	3768572	0.0023032	2.30E-03	6.90E-04	2.61E-04
5547	457169.3	3768569	0.0022934	2.29E-03	6.87E-04	2.60E-04
5548	457160.2	3768565	0.0022831	2.28E-03	6.84E-04	2.59E-04
5549	457151.1	3768561	0.0022721	2.27E-03	6.81E-04	2.58E-04
5550	457142	3768557	0.0022606	2.26E-03	6.77E-04	2.56E-04
5551	457132.9	3768554	0.0022485	2.25E-03	6.73E-04	2.55E-04
5552	457123.8	3768550	0.0022359	2.24E-03	6.70E-04	2.54E-04
5553	457114.7	3768546	0.0022227	2.22E-03	6.66E-04	2.52E-04
5554	457105.6	3768542	0.0022091	2.21E-03	6.62E-04	2.51E-04
5555	457096.5	3768539	0.002195	2.19E-03	6.57E-04	2.49E-04
5556	457087.5	3768535	0.0021804	2.18E-03	6.53E-04	2.47E-04
5557	457078.4	3768531	0.0021655	2.17E-03	6.49E-04	2.46E-04
5558	457069.3	3768527	0.0021501	2.15E-03	6.44E-04	2.44E-04
5559	457060.2	3768524	0.0021344	2.13E-03	6.39E-04	2.42E-04
5560	457051.1	3768520	0.0021184	2.12E-03	6.35E-04	2.40E-04
5561	457038.2	3768507	0.002134	2.13E-03	6.39E-04	2.42E-04
5562	457034.4	3768498	0.0021664	2.17E-03	6.49E-04	2.46E-04
5563	457030.5	3768489	0.0021997	2.20E-03	6.59E-04	2.50E-04
5564	457026.7	3768480	0.0022335	2.23E-03	6.69E-04	2.53E-04
5565	457022.9	3768471	0.0022679	2.27E-03	6.79E-04	2.57E-04
5566	457019.1	3768462	0.0023028	2.30E-03	6.90E-04	2.61E-04
5567	457015.3	3768453	0.0023383	2.34E-03	7.00E-04	2.65E-04
5568	456996.2	3768407	0.0025233	2.52E-03	7.56E-04	2.86E-04
5569	456992.4	3768398	0.0025628	2.56E-03	7.68E-04	2.91E-04
5570	456988.6	3768389	0.0026023	2.60E-03	7.79E-04	2.95E-04
5571	456984.8	3768380	0.0026424	2.64E-03	7.91E-04	3.00E-04
5572	456980.9	3768371	0.0026829	2.68E-03	8.04E-04	3.04E-04
5573	456977.1	3768362	0.0027241	2.72E-03	8.16E-04	3.09E-04
5574	456973.3	3768353	0.0027659	2.77E-03	8.28E-04	3.14E-04
5575	456969.5	3768344	0.0028082	2.81E-03	8.41E-04	3.19E-04
5576	456965.7	3768335	0.0028515	2.85E-03	8.54E-04	3.24E-04
5577	456961.9	3768326	0.0028952	2.90E-03	8.67E-04	3.28E-04
5578	456958	3768317	0.0029393	2.94E-03	8.80E-04	3.33E-04
5579	456954.2	3768308	0.0029838	2.98E-03	8.94E-04	3.39E-04
5580	456950.4	3768299	0.0030288	3.03E-03	9.07E-04	3.44E-04
5581	456946.6	3768290	0.0030743	3.07E-03	9.21E-04	3.49E-04
5582	456942.8	3768281	0.0031204	3.12E-03	9.35E-04	3.54E-04
5583	456939	3768271	0.0031668	3.17E-03	9.49E-04	3.59E-04
5584	456935.1	3768262	0.003213	3.21E-03	9.62E-04	3.65E-04
5585	456931.3	3768253	0.0032591	3.26E-03	9.76E-04	3.70E-04
5586	456927.5	3768244	0.0033049	3.30E-03	9.90E-04	3.75E-04
5587	457333.8	3768632	0.0024319	2.43E-03	7.28E-04	2.76E-04
5588	457343.8	3768632	0.0024694	2.47E-03	7.40E-04	2.80E-04
5589	457353.8	3768632	0.0025084	2.51E-03	7.51E-04	2.85E-04
5590	457363.7	3768632	0.0025493	2.55E-03	7.64E-04	2.89E-04

5591	457373.7	3768632	0.0025922	2.59E-03	7.76E-04	2.94E-04
5592	457383.7	3768632	0.0026372	2.64E-03	7.90E-04	2.99E-04
5593	457393.7	3768632	0.0026843	2.68E-03	8.04E-04	3.05E-04
5594	457403.6	3768632	0.0027339	2.73E-03	8.19E-04	3.10E-04
5595	457413.6	3768632	0.0027858	2.79E-03	8.34E-04	3.16E-04
5596	457423.6	3768632	0.0027426	2.74E-03	8.21E-04	3.11E-04
5597	457433.5	3768632	0.0027876	2.79E-03	8.35E-04	3.16E-04
5598	457443.5	3768632	0.0028342	2.83E-03	8.49E-04	3.22E-04
5599	457453.5	3768632	0.0028847	2.88E-03	8.64E-04	3.27E-04
5600	457463.4	3768632	0.0029404	2.94E-03	8.81E-04	3.34E-04
5601	457473.4	3768632	0.0029991	3.00E-03	8.98E-04	3.40E-04
5602	457483.4	3768632	0.003059	3.06E-03	9.16E-04	3.47E-04
5603	457493.4	3768632	0.003119	3.12E-03	9.34E-04	3.54E-04
5604	457503.3	3768632	0.0031815	3.18E-03	9.53E-04	3.61E-04
5605	457513.3	3768632	0.0032492	3.25E-03	9.73E-04	3.69E-04
5606	457523.3	3768632	0.0033239	3.32E-03	9.96E-04	3.77E-04
5607	457533.2	3768632	0.0034027	3.40E-03	1.02E-03	3.86E-04
5608	457543.2	3768632	0.0034829	3.48E-03	1.04E-03	3.95E-04
5609	457553.2	3768632	0.0035613	3.56E-03	1.07E-03	4.04E-04
5610	457563.2	3768632	0.0036438	3.64E-03	1.09E-03	4.13E-04
5611	457573.1	3768632	0.0037296	3.73E-03	1.12E-03	4.23E-04
5612	457583.1	3768632	0.0038197	3.82E-03	1.14E-03	4.33E-04
5613	457593.1	3768632	0.0039126	3.91E-03	1.17E-03	4.44E-04
5614	457603	3768632	0.0040127	4.01E-03	1.20E-03	4.55E-04
5615	457613	3768632	0.0041228	4.12E-03	1.23E-03	4.68E-04
5616	457623	3768632	0.0042371	4.24E-03	1.27E-03	4.81E-04
5617	457632.9	3768632	0.0043557	4.36E-03	1.30E-03	4.94E-04
5618	457642.9	3768632	0.0044782	4.48E-03	1.34E-03	5.08E-04
5619	457652.9	3768632	0.0046048	4.60E-03	1.38E-03	5.22E-04
5620	457662.9	3768632	0.0047304	4.73E-03	1.42E-03	5.37E-04
5621	457672.8	3768632	0.0048512	4.85E-03	1.45E-03	5.50E-04
5622	457682.8	3768632	0.0049746	4.97E-03	1.49E-03	5.64E-04
5623	457692.8	3768632	0.0051009	5.10E-03	1.53E-03	5.79E-04
5624	457702.7	3768632	0.0052302	5.23E-03	1.57E-03	5.93E-04
5625	457296.5	3768661	0.0021096	2.11E-03	6.32E-04	2.39E-04
5626	457287.4	3768657	0.0021073	2.11E-03	6.31E-04	2.39E-04
5627	457278.3	3768653	0.0021053	2.11E-03	6.31E-04	2.39E-04
5628	457269.2	3768650	0.0021032	2.10E-03	6.30E-04	2.39E-04
5629	457260	3768646	0.0021003	2.10E-03	6.29E-04	2.38E-04
5630	457250.9	3768642	0.0020969	2.10E-03	6.28E-04	2.38E-04
5631	457241.8	3768638	0.0020933	2.09E-03	6.27E-04	2.37E-04
5632	457232.7	3768635	0.0020893	2.09E-03	6.26E-04	2.37E-04
5633	457223.6	3768631	0.0020851	2.09E-03	6.25E-04	2.37E-04
5634	457214.5	3768627	0.0020806	2.08E-03	6.23E-04	2.36E-04
5635	457205.3	3768623	0.0020756	2.08E-03	6.22E-04	2.35E-04
5636	457196.2	3768620	0.0020702	2.07E-03	6.20E-04	2.35E-04
5637	457187.1	3768616	0.0020644	2.06E-03	6.18E-04	2.34E-04

5638	457178	3768612	0.0020583	2.06E-03	6.17E-04	2.34E-04
5639	457168.9	3768608	0.0020519	2.05E-03	6.15E-04	2.33E-04
5640	457159.7	3768605	0.0020449	2.04E-03	6.12E-04	2.32E-04
5641	457150.6	3768601	0.0020374	2.04E-03	6.10E-04	2.31E-04
5642	457141.5	3768597	0.0020291	2.03E-03	6.08E-04	2.30E-04
5643	457132.4	3768593	0.0020201	2.02E-03	6.05E-04	2.29E-04
5644	457123.3	3768590	0.0020104	2.01E-03	6.02E-04	2.28E-04
5645	457114.1	3768586	0.0020005	2.00E-03	5.99E-04	2.27E-04
5646	457105	3768582	0.0019906	1.99E-03	5.96E-04	2.26E-04
5647	457095.9	3768578	0.0019802	1.98E-03	5.93E-04	2.25E-04
5648	457086.8	3768575	0.0019695	1.97E-03	5.90E-04	2.23E-04
5649	457077.7	3768571	0.0019585	1.96E-03	5.87E-04	2.22E-04
5650	457068.5	3768567	0.001947	1.95E-03	5.83E-04	2.21E-04
5651	457059.4	3768563	0.0019349	1.93E-03	5.80E-04	2.20E-04
5652	457050.3	3768560	0.0019224	1.92E-03	5.76E-04	2.18E-04
5653	457041.2	3768556	0.0019095	1.91E-03	5.72E-04	2.17E-04
5654	457032.1	3768552	0.0018964	1.90E-03	5.68E-04	2.15E-04
5655	457022.9	3768548	0.0018833	1.88E-03	5.64E-04	2.14E-04
5656	457010	3768535	0.0018965	1.90E-03	5.68E-04	2.15E-04
5657	457006.2	3768526	0.0019232	1.92E-03	5.76E-04	2.18E-04
5658	457002.3	3768517	0.0019503	1.95E-03	5.84E-04	2.21E-04
5659	456998.5	3768508	0.0019777	1.98E-03	5.92E-04	2.24E-04
5660	456994.7	3768499	0.0020053	2.01E-03	6.01E-04	2.28E-04
5661	456990.9	3768490	0.0020334	2.03E-03	6.09E-04	2.31E-04
5662	456987	3768481	0.002062	2.06E-03	6.18E-04	2.34E-04
5663	456983.2	3768472	0.0020913	2.09E-03	6.26E-04	2.37E-04
5664	456979.4	3768463	0.002121	2.12E-03	6.35E-04	2.41E-04
5665	456975.6	3768454	0.0021512	2.15E-03	6.44E-04	2.44E-04
5666	456956.4	3768408	0.0023092	2.31E-03	6.92E-04	2.62E-04
5667	456952.6	3768399	0.0023421	2.34E-03	7.01E-04	2.66E-04
5668	456948.8	3768390	0.0023755	2.38E-03	7.12E-04	2.70E-04
5669	456944.9	3768381	0.0024094	2.41E-03	7.22E-04	2.73E-04
5670	456941.1	3768372	0.0024436	2.44E-03	7.32E-04	2.77E-04
5671	456937.3	3768363	0.0024788	2.48E-03	7.42E-04	2.81E-04
5672	456933.5	3768354	0.0025145	2.51E-03	7.53E-04	2.85E-04
5673	456929.6	3768345	0.0025507	2.55E-03	7.64E-04	2.89E-04
5674	456925.8	3768336	0.0025869	2.59E-03	7.75E-04	2.93E-04
5675	456899	3768272	0.0028509	2.85E-03	8.54E-04	3.23E-04
5676	456895.2	3768263	0.0028892	2.89E-03	8.65E-04	3.28E-04
5677	456891.4	3768254	0.0029279	2.93E-03	8.77E-04	3.32E-04
5678	456887.5	3768245	0.0029667	2.97E-03	8.89E-04	3.37E-04
5679	457333.9	3768672	0.002147	2.15E-03	6.43E-04	2.44E-04
5680	457343.8	3768672	0.0021773	2.18E-03	6.52E-04	2.47E-04
5681	457353.8	3768672	0.0022087	2.21E-03	6.62E-04	2.51E-04
5682	457363.8	3768672	0.00219	2.19E-03	6.56E-04	2.48E-04
5683	457373.7	3768672	0.0022163	2.22E-03	6.64E-04	2.51E-04
5684	457383.7	3768672	0.0022436	2.24E-03	6.72E-04	2.55E-04

5685	457393.7	3768672	0.0022731	2.27E-03	6.81E-04	2.58E-04
5686	457403.6	3768672	0.0023061	2.31E-03	6.91E-04	2.62E-04
5687	457413.6	3768672	0.0023404	2.34E-03	7.01E-04	2.66E-04
5688	457423.6	3768672	0.0023758	2.38E-03	7.12E-04	2.70E-04
5689	457433.6	3768672	0.0024124	2.41E-03	7.23E-04	2.74E-04
5690	457443.5	3768672	0.0024504	2.45E-03	7.34E-04	2.78E-04
5691	457453.5	3768672	0.0024905	2.49E-03	7.46E-04	2.83E-04
5692	457463.5	3768672	0.002533	2.53E-03	7.59E-04	2.87E-04
5693	457473.4	3768672	0.0025776	2.58E-03	7.72E-04	2.92E-04
5694	457483.4	3768672	0.0026244	2.62E-03	7.86E-04	2.98E-04
5695	457493.4	3768672	0.0026735	2.67E-03	8.01E-04	3.03E-04
5696	457503.3	3768672	0.002725	2.73E-03	8.16E-04	3.09E-04
5697	457513.3	3768672	0.0027762	2.78E-03	8.32E-04	3.15E-04
5698	457523.3	3768672	0.0028246	2.82E-03	8.46E-04	3.20E-04
5699	457533.3	3768672	0.0028748	2.87E-03	8.61E-04	3.26E-04
5700	457543.2	3768672	0.0029299	2.93E-03	8.78E-04	3.32E-04
5701	457553.2	3768672	0.002992	2.99E-03	8.96E-04	3.39E-04
5702	457563.2	3768672	0.0030573	3.06E-03	9.16E-04	3.47E-04
5703	457573.1	3768672	0.0031263	3.13E-03	9.36E-04	3.55E-04
5704	457583.1	3768672	0.0031999	3.20E-03	9.58E-04	3.63E-04
5705	457593.1	3768672	0.0032767	3.28E-03	9.81E-04	3.72E-04
5706	457603	3768672	0.0033571	3.36E-03	1.01E-03	3.81E-04
5707	457613	3768672	0.0034408	3.44E-03	1.03E-03	3.90E-04
5708	457623	3768672	0.0035278	3.53E-03	1.06E-03	4.00E-04
5709	457633	3768672	0.003613	3.61E-03	1.08E-03	4.10E-04
5710	457642.9	3768672	0.0036911	3.69E-03	1.11E-03	4.19E-04
5711	457652.9	3768672	0.0037714	3.77E-03	1.13E-03	4.28E-04
5712	457662.9	3768672	0.003859	3.86E-03	1.16E-03	4.38E-04
5713	457672.8	3768672	0.0039582	3.96E-03	1.19E-03	4.49E-04
5714	457682.8	3768672	0.0040601	4.06E-03	1.22E-03	4.61E-04
5715	457692.8	3768672	0.0041663	4.17E-03	1.25E-03	4.73E-04
5716	457702.8	3768672	0.0042769	4.28E-03	1.28E-03	4.85E-04
5717	457296.5	3768701	0.0018837	1.88E-03	5.64E-04	2.14E-04
5718	457287.3	3768697	0.0018821	1.88E-03	5.64E-04	2.14E-04
5719	457278.2	3768693	0.0018804	1.88E-03	5.63E-04	2.13E-04
5720	457269	3768690	0.0018787	1.88E-03	5.63E-04	2.13E-04
5721	457259.9	3768686	0.0018768	1.88E-03	5.62E-04	2.13E-04
5722	457250.8	3768682	0.0018749	1.87E-03	5.62E-04	2.13E-04
5723	457241.6	3768678	0.0018727	1.87E-03	5.61E-04	2.12E-04
5724	457232.5	3768675	0.0018705	1.87E-03	5.60E-04	2.12E-04
5725	457223.3	3768671	0.0018681	1.87E-03	5.60E-04	2.12E-04
5726	457214.2	3768667	0.0018655	1.87E-03	5.59E-04	2.12E-04
5727	457205.1	3768663	0.0018627	1.86E-03	5.58E-04	2.11E-04
5728	457195.9	3768659	0.0018597	1.86E-03	5.57E-04	2.11E-04
5729	457186.8	3768656	0.0018562	1.86E-03	5.56E-04	2.11E-04
5730	457177.6	3768652	0.0018521	1.85E-03	5.55E-04	2.10E-04
5731	457168.5	3768648	0.0018475	1.85E-03	5.53E-04	2.10E-04

5732	457159.3	3768644	0.0018425	1.84E-03	5.52E-04	2.09E-04
5733	457150.2	3768641	0.0018371	1.84E-03	5.50E-04	2.08E-04
5734	457141.1	3768637	0.0018313	1.83E-03	5.49E-04	2.08E-04
5735	457131.9	3768633	0.0018251	1.83E-03	5.47E-04	2.07E-04
5736	457122.8	3768629	0.0018185	1.82E-03	5.45E-04	2.06E-04
5737	457113.6	3768626	0.0018114	1.81E-03	5.43E-04	2.06E-04
5738	457104.5	3768622	0.0018039	1.80E-03	5.40E-04	2.05E-04
5739	457095.4	3768618	0.001796	1.80E-03	5.38E-04	2.04E-04
5740	457086.2	3768614	0.0017879	1.79E-03	5.36E-04	2.03E-04
5741	457077.1	3768611	0.0017797	1.78E-03	5.33E-04	2.02E-04
5742	457067.9	3768607	0.0017711	1.77E-03	5.30E-04	2.01E-04
5743	457058.8	3768603	0.001762	1.76E-03	5.28E-04	2.00E-04
5744	457049.6	3768599	0.0017523	1.75E-03	5.25E-04	1.99E-04
5745	457040.5	3768596	0.0017421	1.74E-03	5.22E-04	1.98E-04
5746	457031.4	3768592	0.0017317	1.73E-03	5.19E-04	1.96E-04
5747	457022.2	3768588	0.0017214	1.72E-03	5.16E-04	1.95E-04
5748	457013.1	3768584	0.0017109	1.71E-03	5.12E-04	1.94E-04
5749	457003.9	3768580	0.0017001	1.70E-03	5.09E-04	1.93E-04
5750	456994.8	3768577	0.0016889	1.69E-03	5.06E-04	1.92E-04
5751	456981.8	3768564	0.0016991	1.70E-03	5.09E-04	1.93E-04
5752	456978	3768555	0.0017212	1.72E-03	5.16E-04	1.95E-04
5753	456974.1	3768546	0.0017435	1.74E-03	5.22E-04	1.98E-04
5754	456970.3	3768537	0.0017661	1.77E-03	5.29E-04	2.00E-04
5755	456966.5	3768527	0.0017891	1.79E-03	5.36E-04	2.03E-04
5756	456962.6	3768518	0.0018124	1.81E-03	5.43E-04	2.06E-04
5757	456958.8	3768509	0.001836	1.84E-03	5.50E-04	2.08E-04
5758	456955	3768500	0.00186	1.86E-03	5.57E-04	2.11E-04
5759	456951.1	3768491	0.0018844	1.88E-03	5.64E-04	2.14E-04
5760	456947.3	3768482	0.0019093	1.91E-03	5.72E-04	2.17E-04
5761	456943.5	3768473	0.0019344	1.93E-03	5.79E-04	2.19E-04
5762	456939.6	3768464	0.0019599	1.96E-03	5.87E-04	2.22E-04
5763	456935.8	3768455	0.0019861	1.99E-03	5.95E-04	2.25E-04
5764	456901.2	3768373	0.0022376	2.24E-03	6.70E-04	2.54E-04
5765	456897.4	3768363	0.0022677	2.27E-03	6.79E-04	2.57E-04
5766	456893.6	3768354	0.002298	2.30E-03	6.88E-04	2.61E-04
5767	456889.7	3768345	0.0023287	2.33E-03	6.97E-04	2.64E-04
5768	456885.9	3768336	0.0023598	2.36E-03	7.07E-04	2.68E-04
5769	456882.1	3768327	0.0023912	2.39E-03	7.16E-04	2.71E-04
5770	456878.2	3768318	0.0024231	2.42E-03	7.26E-04	2.75E-04
5771	456874.4	3768309	0.0024549	2.45E-03	7.35E-04	2.79E-04
5772	456870.6	3768300	0.0024868	2.49E-03	7.45E-04	2.82E-04
5773	456866.7	3768291	0.0025188	2.52E-03	7.54E-04	2.86E-04
5774	456862.9	3768281	0.0025513	2.55E-03	7.64E-04	2.89E-04
5775	456859	3768272	0.0025841	2.58E-03	7.74E-04	2.93E-04
5776	456855.2	3768263	0.0026169	2.62E-03	7.84E-04	2.97E-04
5777	456851.4	3768254	0.0026499	2.65E-03	7.94E-04	3.01E-04
5778	456847.5	3768245	0.0026827	2.68E-03	8.03E-04	3.04E-04

5779	457333.9	3768712	0.0018676	1.87E-03	5.59E-04	2.12E-04
5780	457343.8	3768712	0.0018895	1.89E-03	5.66E-04	2.14E-04
5781	457353.8	3768712	0.0019119	1.91E-03	5.73E-04	2.17E-04
5782	457363.8	3768712	0.0019351	1.94E-03	5.80E-04	2.20E-04
5783	457373.8	3768712	0.0019589	1.96E-03	5.87E-04	2.22E-04
5784	457383.7	3768712	0.0019837	1.98E-03	5.94E-04	2.25E-04
5785	457393.7	3768712	0.0020092	2.01E-03	6.02E-04	2.28E-04
5786	457403.7	3768712	0.0020357	2.04E-03	6.10E-04	2.31E-04
5787	457413.6	3768712	0.0020632	2.06E-03	6.18E-04	2.34E-04
5788	457423.6	3768712	0.0020913	2.09E-03	6.26E-04	2.37E-04
5789	457433.6	3768712	0.0021202	2.12E-03	6.35E-04	2.41E-04
5790	457443.5	3768712	0.0021502	2.15E-03	6.44E-04	2.44E-04
5791	457453.5	3768712	0.0021801	2.18E-03	6.53E-04	2.47E-04
5792	457463.5	3768712	0.0022091	2.21E-03	6.62E-04	2.51E-04
5793	457473.5	3768712	0.0022391	2.24E-03	6.71E-04	2.54E-04
5794	457483.4	3768712	0.0022716	2.27E-03	6.80E-04	2.58E-04
5795	457493.4	3768712	0.0023091	2.31E-03	6.92E-04	2.62E-04
5796	457503.4	3768712	0.0023482	2.35E-03	7.03E-04	2.66E-04
5797	457513.3	3768712	0.0023893	2.39E-03	7.16E-04	2.71E-04
5798	457523.3	3768712	0.0024322	2.43E-03	7.28E-04	2.76E-04
5799	457533.3	3768712	0.0024772	2.48E-03	7.42E-04	2.81E-04
5800	457543.2	3768712	0.0025238	2.52E-03	7.56E-04	2.86E-04
5801	457553.2	3768712	0.002571	2.57E-03	7.70E-04	2.92E-04
5802	457563.2	3768712	0.0026208	2.62E-03	7.85E-04	2.97E-04
5803	457573.2	3768712	0.0026734	2.67E-03	8.01E-04	3.03E-04
5804	457583.1	3768712	0.0027298	2.73E-03	8.18E-04	3.10E-04
5805	457593.1	3768712	0.0027887	2.79E-03	8.35E-04	3.16E-04
5806	457603.1	3768712	0.0028469	2.85E-03	8.53E-04	3.23E-04
5807	457613	3768712	0.0029004	2.90E-03	8.69E-04	3.29E-04
5808	457623	3768712	0.0029559	2.96E-03	8.85E-04	3.35E-04
5809	457633	3768712	0.0030172	3.02E-03	9.04E-04	3.42E-04
5810	457642.9	3768712	0.0030881	3.09E-03	9.25E-04	3.50E-04
5811	457652.9	3768712	0.0031619	3.16E-03	9.47E-04	3.59E-04
5812	457662.9	3768712	0.0032382	3.24E-03	9.70E-04	3.67E-04
5813	457672.9	3768712	0.0033174	3.32E-03	9.94E-04	3.76E-04
5814	457682.8	3768712	0.0033991	3.40E-03	1.02E-03	3.86E-04
5815	457692.8	3768712	0.0034827	3.48E-03	1.04E-03	3.95E-04
5816	457702.8	3768712	0.0035664	3.57E-03	1.07E-03	4.05E-04
5817	457296.4	3768741	0.00166	1.66E-03	4.97E-04	1.88E-04
5818	457287.3	3768737	0.0016605	1.66E-03	4.97E-04	1.88E-04
5819	457278.1	3768733	0.0016616	1.66E-03	4.98E-04	1.89E-04
5820	457269	3768730	0.001663	1.66E-03	4.98E-04	1.89E-04
5821	457259.8	3768726	0.0016653	1.67E-03	4.99E-04	1.89E-04
5822	457250.6	3768722	0.001667	1.67E-03	4.99E-04	1.89E-04
5823	457241.5	3768718	0.0016679	1.67E-03	5.00E-04	1.89E-04
5824	457232.3	3768714	0.0016865	1.69E-03	5.05E-04	1.91E-04
5825	457223.1	3768711	0.001685	1.68E-03	5.05E-04	1.91E-04

5826	457214	3768707	0.0016833	1.68E-03	5.04E-04	1.91E-04
5827	457204.8	3768703	0.0016814	1.68E-03	5.04E-04	1.91E-04
5828	457195.7	3768699	0.0016794	1.68E-03	5.03E-04	1.91E-04
5829	457186.5	3768696	0.0016773	1.68E-03	5.02E-04	1.90E-04
5830	457177.3	3768692	0.001675	1.68E-03	5.02E-04	1.90E-04
5831	457168.2	3768688	0.0016724	1.67E-03	5.01E-04	1.90E-04
5832	457159	3768684	0.0016693	1.67E-03	5.00E-04	1.89E-04
5833	457149.9	3768681	0.0016658	1.67E-03	4.99E-04	1.89E-04
5834	457140.7	3768677	0.0016617	1.66E-03	4.98E-04	1.89E-04
5835	457131.5	3768673	0.0016574	1.66E-03	4.96E-04	1.88E-04
5836	457122.4	3768669	0.0016527	1.65E-03	4.95E-04	1.88E-04
5837	457113.2	3768665	0.0016476	1.65E-03	4.93E-04	1.87E-04
5838	457104.1	3768662	0.0016422	1.64E-03	4.92E-04	1.86E-04
5839	457094.9	3768658	0.0016364	1.64E-03	4.90E-04	1.86E-04
5840	457085.7	3768654	0.0016304	1.63E-03	4.88E-04	1.85E-04
5841	457076.6	3768650	0.0016243	1.62E-03	4.86E-04	1.84E-04
5842	457067.4	3768647	0.0016178	1.62E-03	4.85E-04	1.84E-04
5843	457058.3	3768643	0.001611	1.61E-03	4.83E-04	1.83E-04
5844	457049.1	3768639	0.0016034	1.60E-03	4.80E-04	1.82E-04
5845	457039.9	3768635	0.0015956	1.60E-03	4.78E-04	1.81E-04
5846	457030.8	3768632	0.0015874	1.59E-03	4.75E-04	1.80E-04
5847	457021.6	3768628	0.0015793	1.58E-03	4.73E-04	1.79E-04
5848	457012.5	3768624	0.0015709	1.57E-03	4.71E-04	1.78E-04
5849	457003.3	3768620	0.0015623	1.56E-03	4.68E-04	1.77E-04
5850	456994.1	3768616	0.0015532	1.55E-03	4.65E-04	1.76E-04
5851	456985	3768613	0.0015439	1.54E-03	4.62E-04	1.75E-04
5852	456975.8	3768609	0.0015343	1.53E-03	4.60E-04	1.74E-04
5853	456966.6	3768605	0.0015245	1.52E-03	4.57E-04	1.73E-04
5854	456953.6	3768592	0.001533	1.53E-03	4.59E-04	1.74E-04
5855	456949.8	3768583	0.0015516	1.55E-03	4.65E-04	1.76E-04
5856	456946	3768574	0.0015703	1.57E-03	4.70E-04	1.78E-04
5857	456942.1	3768565	0.0015892	1.59E-03	4.76E-04	1.80E-04
5858	456938.3	3768556	0.0016085	1.61E-03	4.82E-04	1.82E-04
5859	456934.4	3768547	0.0016283	1.63E-03	4.88E-04	1.85E-04
5860	456930.6	3768537	0.0016482	1.65E-03	4.94E-04	1.87E-04
5861	456926.7	3768528	0.0016684	1.67E-03	5.00E-04	1.89E-04
5862	456922.9	3768519	0.0016886	1.69E-03	5.06E-04	1.92E-04
5863	456896	3768455	0.0018395	1.84E-03	5.51E-04	2.09E-04
5864	456880.6	3768419	0.001933	1.93E-03	5.79E-04	2.19E-04
5865	456876.7	3768410	0.0019572	1.96E-03	5.86E-04	2.22E-04
5866	456872.9	3768401	0.0019819	1.98E-03	5.94E-04	2.25E-04
5867	456869.1	3768391	0.0020069	2.01E-03	6.01E-04	2.28E-04
5868	456865.2	3768382	0.0020322	2.03E-03	6.09E-04	2.31E-04
5869	456861.4	3768373	0.0020577	2.06E-03	6.16E-04	2.33E-04
5870	456857.5	3768364	0.0020837	2.08E-03	6.24E-04	2.36E-04
5871	456853.7	3768355	0.0021101	2.11E-03	6.32E-04	2.39E-04
5872	456849.8	3768346	0.0021368	2.14E-03	6.40E-04	2.42E-04

5873	456846	3768337	0.0021638	2.16E-03	6.48E-04	2.45E-04
5874	456842.1	3768327	0.0021909	2.19E-03	6.56E-04	2.49E-04
5875	456838.3	3768318	0.0022181	2.22E-03	6.64E-04	2.52E-04
5876	456834.5	3768309	0.0022453	2.25E-03	6.73E-04	2.55E-04
5877	456830.6	3768300	0.0022729	2.27E-03	6.81E-04	2.58E-04
5878	456826.8	3768291	0.0023005	2.30E-03	6.89E-04	2.61E-04
5879	456822.9	3768282	0.0023285	2.33E-03	6.97E-04	2.64E-04
5880	456819.1	3768273	0.0023566	2.36E-03	7.06E-04	2.67E-04
5881	456815.2	3768264	0.0023845	2.38E-03	7.14E-04	2.71E-04
5882	456811.4	3768254	0.0024121	2.41E-03	7.22E-04	2.74E-04
5883	456807.5	3768245	0.0024395	2.44E-03	7.31E-04	2.77E-04
5884	457333.9	3768752	0.0016761	1.68E-03	5.02E-04	1.90E-04
5885	457343.9	3768752	0.0016941	1.69E-03	5.07E-04	1.92E-04
5886	457353.8	3768752	0.0017126	1.71E-03	5.13E-04	1.94E-04
5887	457363.8	3768752	0.0017311	1.73E-03	5.19E-04	1.96E-04
5888	457373.8	3768752	0.0017491	1.75E-03	5.24E-04	1.98E-04
5889	457383.7	3768752	0.0017678	1.77E-03	5.29E-04	2.01E-04
5890	457393.7	3768752	0.0017876	1.79E-03	5.35E-04	2.03E-04
5891	457403.7	3768752	0.0018091	1.81E-03	5.42E-04	2.05E-04
5892	457413.7	3768752	0.0018314	1.83E-03	5.49E-04	2.08E-04
5893	457423.6	3768752	0.0018538	1.85E-03	5.55E-04	2.10E-04
5894	457433.6	3768752	0.0018759	1.88E-03	5.62E-04	2.13E-04
5895	457443.6	3768752	0.0018985	1.90E-03	5.69E-04	2.15E-04
5896	457453.5	3768752	0.0019226	1.92E-03	5.76E-04	2.18E-04
5897	457463.5	3768752	0.0019491	1.95E-03	5.84E-04	2.21E-04
5898	457473.5	3768752	0.0019768	1.98E-03	5.92E-04	2.24E-04
5899	457483.4	3768752	0.0020056	2.01E-03	6.01E-04	2.28E-04
5900	457493.4	3768752	0.0020356	2.04E-03	6.10E-04	2.31E-04
5901	457503.4	3768752	0.002067	2.07E-03	6.19E-04	2.35E-04
5902	457513.4	3768752	0.0020983	2.10E-03	6.28E-04	2.38E-04
5903	457523.3	3768752	0.0021288	2.13E-03	6.38E-04	2.42E-04
5904	457533.3	3768752	0.0021605	2.16E-03	6.47E-04	2.45E-04
5905	457543.3	3768752	0.0021936	2.19E-03	6.57E-04	2.49E-04
5906	457553.2	3768752	0.0022281	2.23E-03	6.67E-04	2.53E-04
5907	457563.2	3768752	0.0022642	2.26E-03	6.78E-04	2.57E-04
5908	457573.2	3768752	0.0023031	2.30E-03	6.90E-04	2.61E-04
5909	457583.1	3768752	0.0023464	2.35E-03	7.03E-04	2.66E-04
5910	457593.1	3768752	0.0023915	2.39E-03	7.16E-04	2.71E-04
5911	457603.1	3768752	0.0024387	2.44E-03	7.30E-04	2.77E-04
5912	457613.1	3768752	0.0024878	2.49E-03	7.45E-04	2.82E-04
5913	457623	3768752	0.002539	2.54E-03	7.60E-04	2.88E-04
5914	457633	3768752	0.0025924	2.59E-03	7.76E-04	2.94E-04
5915	457643	3768752	0.0026478	2.65E-03	7.93E-04	3.00E-04
5916	457652.9	3768752	0.0027055	2.71E-03	8.10E-04	3.07E-04
5917	457662.9	3768752	0.0027631	2.76E-03	8.28E-04	3.13E-04
5918	457672.9	3768752	0.0028188	2.82E-03	8.44E-04	3.20E-04
5919	457682.8	3768752	0.0028762	2.88E-03	8.61E-04	3.26E-04

5920	457692.8	3768752	0.0029357	2.94E-03	8.79E-04	3.33E-04
5921	457702.8	3768752	0.0029973	3.00E-03	8.98E-04	3.40E-04
5922	457296.4	3768781	0.0015015	1.50E-03	4.50E-04	1.70E-04
5923	457287.2	3768777	0.0015022	1.50E-03	4.50E-04	1.70E-04
5924	457278.1	3768773	0.001503	1.50E-03	4.50E-04	1.71E-04
5925	457268.9	3768770	0.0015038	1.50E-03	4.50E-04	1.71E-04
5926	457259.7	3768766	0.0015046	1.50E-03	4.51E-04	1.71E-04
5927	457250.5	3768762	0.0015057	1.51E-03	4.51E-04	1.71E-04
5928	457241.3	3768758	0.0015072	1.51E-03	4.51E-04	1.71E-04
5929	457232.2	3768754	0.0015091	1.51E-03	4.52E-04	1.71E-04
5930	457223	3768751	0.0015106	1.51E-03	4.52E-04	1.71E-04
5931	457213.8	3768747	0.0015115	1.51E-03	4.53E-04	1.71E-04
5932	457204.6	3768743	0.0015265	1.53E-03	4.57E-04	1.73E-04
5933	457195.5	3768739	0.0015253	1.53E-03	4.57E-04	1.73E-04
5934	457186.3	3768736	0.0015239	1.52E-03	4.56E-04	1.73E-04
5935	457177.1	3768732	0.0015222	1.52E-03	4.56E-04	1.73E-04
5936	457167.9	3768728	0.0015205	1.52E-03	4.55E-04	1.73E-04
5937	457158.7	3768724	0.0015186	1.52E-03	4.55E-04	1.72E-04
5938	457149.6	3768720	0.0015166	1.52E-03	4.54E-04	1.72E-04
5939	457140.4	3768717	0.0015142	1.51E-03	4.54E-04	1.72E-04
5940	457131.2	3768713	0.0015115	1.51E-03	4.53E-04	1.71E-04
5941	457122	3768709	0.0015083	1.51E-03	4.52E-04	1.71E-04
5942	457112.9	3768705	0.0015048	1.50E-03	4.51E-04	1.71E-04
5943	457103.7	3768702	0.0015009	1.50E-03	4.50E-04	1.70E-04
5944	457094.5	3768698	0.0014968	1.50E-03	4.48E-04	1.70E-04
5945	457085.3	3768694	0.0014924	1.49E-03	4.47E-04	1.69E-04
5946	457076.2	3768690	0.001488	1.49E-03	4.46E-04	1.69E-04
5947	457067	3768686	0.0014832	1.48E-03	4.44E-04	1.68E-04
5948	457057.8	3768683	0.0014781	1.48E-03	4.43E-04	1.68E-04
5949	457048.6	3768679	0.0014723	1.47E-03	4.41E-04	1.67E-04
5950	457039.4	3768675	0.0014663	1.47E-03	4.39E-04	1.66E-04
5951	457030.3	3768671	0.00146	1.46E-03	4.37E-04	1.66E-04
5952	457021.1	3768668	0.0014537	1.45E-03	4.35E-04	1.65E-04
5953	457011.9	3768664	0.0014472	1.45E-03	4.33E-04	1.64E-04
5954	457002.7	3768660	0.0014403	1.44E-03	4.31E-04	1.63E-04
5955	456993.6	3768656	0.0014331	1.43E-03	4.29E-04	1.63E-04
5956	456984.4	3768652	0.0014255	1.43E-03	4.27E-04	1.62E-04
5957	456975.2	3768649	0.0014177	1.42E-03	4.25E-04	1.61E-04
5958	456966	3768645	0.0014098	1.41E-03	4.22E-04	1.60E-04
5959	456956.8	3768641	0.0014016	1.40E-03	4.20E-04	1.59E-04
5960	456947.7	3768637	0.0013934	1.39E-03	4.17E-04	1.58E-04
5961	456938.5	3768634	0.0013849	1.38E-03	4.15E-04	1.57E-04
5962	456925.5	3768621	0.001392	1.39E-03	4.17E-04	1.58E-04
5963	456898.5	3768557	0.0015067	1.51E-03	4.51E-04	1.71E-04
5964	456894.7	3768547	0.0015237	1.52E-03	4.56E-04	1.73E-04
5965	456890.8	3768538	0.001541	1.54E-03	4.62E-04	1.75E-04
5966	456886.9	3768529	0.0015585	1.56E-03	4.67E-04	1.77E-04

5967	456883.1	3768520	0.0015764	1.58E-03	4.72E-04	1.79E-04
5968	456879.2	3768511	0.0015948	1.59E-03	4.78E-04	1.81E-04
5969	456875.4	3768502	0.0016131	1.61E-03	4.83E-04	1.83E-04
5970	456871.5	3768493	0.0016317	1.63E-03	4.89E-04	1.85E-04
5971	456867.7	3768483	0.0016506	1.65E-03	4.94E-04	1.87E-04
5972	456863.8	3768474	0.0016699	1.67E-03	5.00E-04	1.89E-04
5973	456860	3768465	0.0016893	1.69E-03	5.06E-04	1.92E-04
5974	456856.1	3768456	0.0017091	1.71E-03	5.12E-04	1.94E-04
5975	456840.7	3768419	0.0017913	1.79E-03	5.37E-04	2.03E-04
5976	456836.9	3768410	0.0018127	1.81E-03	5.43E-04	2.06E-04
5977	456833	3768401	0.0018343	1.83E-03	5.49E-04	2.08E-04
5978	456829.2	3768392	0.0018561	1.86E-03	5.56E-04	2.11E-04
5979	456825.3	3768383	0.0018781	1.88E-03	5.63E-04	2.13E-04
5980	456821.5	3768374	0.0019005	1.90E-03	5.69E-04	2.16E-04
5981	456817.6	3768365	0.0019233	1.92E-03	5.76E-04	2.18E-04
5982	456813.8	3768355	0.0019464	1.95E-03	5.83E-04	2.21E-04
5983	456809.9	3768346	0.0019697	1.97E-03	5.90E-04	2.23E-04
5984	456806.1	3768337	0.0019928	1.99E-03	5.97E-04	2.26E-04
5985	456802.2	3768328	0.0020162	2.02E-03	6.04E-04	2.29E-04
5986	456798.4	3768319	0.0020396	2.04E-03	6.11E-04	2.31E-04
5987	456794.5	3768310	0.0020634	2.06E-03	6.18E-04	2.34E-04
5988	456790.7	3768300	0.0020876	2.09E-03	6.25E-04	2.37E-04
5989	456786.8	3768291	0.0021117	2.11E-03	6.32E-04	2.40E-04
5990	456783	3768282	0.0021357	2.14E-03	6.40E-04	2.42E-04
5991	456779.1	3768273	0.0021594	2.16E-03	6.47E-04	2.45E-04
5992	456775.3	3768264	0.002183	2.18E-03	6.54E-04	2.48E-04
5993	456771.4	3768255	0.0022067	2.21E-03	6.61E-04	2.50E-04
5994	456767.6	3768246	0.0022309	2.23E-03	6.68E-04	2.53E-04
5995	457333.9	3768792	0.0015082	1.51E-03	4.52E-04	1.71E-04
5996	457343.9	3768792	0.0015231	1.52E-03	4.56E-04	1.73E-04
5997	457353.8	3768792	0.0015384	1.54E-03	4.61E-04	1.75E-04
5998	457363.8	3768792	0.001554	1.55E-03	4.65E-04	1.76E-04
5999	457373.8	3768792	0.0015697	1.57E-03	4.70E-04	1.78E-04
6000	457383.8	3768792	0.001586	1.59E-03	4.75E-04	1.80E-04
6001	457393.7	3768792	0.0016028	1.60E-03	4.80E-04	1.82E-04
6002	457403.7	3768792	0.0016206	1.62E-03	4.85E-04	1.84E-04
6003	457413.7	3768792	0.001639	1.64E-03	4.91E-04	1.86E-04
6004	457423.6	3768792	0.0016579	1.66E-03	4.97E-04	1.88E-04
6005	457433.6	3768792	0.0016776	1.68E-03	5.02E-04	1.90E-04
6006	457443.6	3768792	0.0016979	1.70E-03	5.09E-04	1.93E-04
6007	457453.5	3768792	0.0017176	1.72E-03	5.14E-04	1.95E-04
6008	457463.5	3768792	0.0017355	1.74E-03	5.20E-04	1.97E-04
6009	457473.5	3768792	0.0017542	1.75E-03	5.25E-04	1.99E-04
6010	457483.5	3768792	0.0017748	1.77E-03	5.32E-04	2.01E-04
6011	457493.4	3768792	0.0017989	1.80E-03	5.39E-04	2.04E-04
6012	457503.4	3768792	0.0018238	1.82E-03	5.46E-04	2.07E-04
6013	457513.4	3768792	0.0018495	1.85E-03	5.54E-04	2.10E-04

6014	457523.3	3768792	0.0018759	1.88E-03	5.62E-04	2.13E-04
6015	457533.3	3768792	0.0019031	1.90E-03	5.70E-04	2.16E-04
6016	457543.3	3768792	0.0019318	1.93E-03	5.79E-04	2.19E-04
6017	457553.3	3768792	0.0019623	1.96E-03	5.88E-04	2.23E-04
6018	457563.2	3768792	0.0019941	1.99E-03	5.97E-04	2.26E-04
6019	457573.2	3768792	0.0020271	2.03E-03	6.07E-04	2.30E-04
6020	457583.2	3768792	0.0020617	2.06E-03	6.18E-04	2.34E-04
6021	457593.1	3768792	0.0020976	2.10E-03	6.28E-04	2.38E-04
6022	457603.1	3768792	0.0021328	2.13E-03	6.39E-04	2.42E-04
6023	457613.1	3768792	0.0021649	2.16E-03	6.48E-04	2.46E-04
6024	457623	3768792	0.0021984	2.20E-03	6.58E-04	2.49E-04
6025	457633	3768792	0.0022354	2.24E-03	6.70E-04	2.54E-04
6026	457643	3768792	0.0022784	2.28E-03	6.82E-04	2.59E-04
6027	457653	3768792	0.0023232	2.32E-03	6.96E-04	2.64E-04
6028	457662.9	3768792	0.0023694	2.37E-03	7.10E-04	2.69E-04
6029	457672.9	3768792	0.0024163	2.42E-03	7.24E-04	2.74E-04
6030	457682.9	3768792	0.0024647	2.46E-03	7.38E-04	2.80E-04
6031	457692.8	3768792	0.0025155	2.52E-03	7.53E-04	2.85E-04
6032	457702.8	3768792	0.0025689	2.57E-03	7.69E-04	2.91E-04
6033	457296.4	3768821	0.0013611	1.36E-03	4.08E-04	1.54E-04
6034	457287.2	3768817	0.0013628	1.36E-03	4.08E-04	1.55E-04
6035	457278	3768813	0.0013645	1.36E-03	4.09E-04	1.55E-04
6036	457268.8	3768809	0.0013662	1.37E-03	4.09E-04	1.55E-04
6037	457259.6	3768806	0.0013683	1.37E-03	4.10E-04	1.55E-04
6038	457250.4	3768802	0.0013699	1.37E-03	4.10E-04	1.55E-04
6039	457241.2	3768798	0.0013712	1.37E-03	4.11E-04	1.56E-04
6040	457232	3768794	0.0013721	1.37E-03	4.11E-04	1.56E-04
6041	457222.8	3768791	0.0013732	1.37E-03	4.11E-04	1.56E-04
6042	457213.7	3768787	0.0013746	1.37E-03	4.12E-04	1.56E-04
6043	457204.5	3768783	0.0013762	1.38E-03	4.12E-04	1.56E-04
6044	457195.3	3768779	0.0013775	1.38E-03	4.13E-04	1.56E-04
6045	457186.1	3768775	0.0013782	1.38E-03	4.13E-04	1.56E-04
6046	457176.9	3768772	0.0013903	1.39E-03	4.16E-04	1.58E-04
6047	457167.7	3768768	0.0013892	1.39E-03	4.16E-04	1.58E-04
6048	457158.5	3768764	0.001388	1.39E-03	4.16E-04	1.57E-04
6049	457149.3	3768760	0.0013866	1.39E-03	4.15E-04	1.57E-04
6050	457140.1	3768757	0.0013852	1.39E-03	4.15E-04	1.57E-04
6051	457130.9	3768753	0.0013837	1.38E-03	4.14E-04	1.57E-04
6052	457121.7	3768749	0.0013819	1.38E-03	4.14E-04	1.57E-04
6053	457112.6	3768745	0.0013795	1.38E-03	4.13E-04	1.57E-04
6054	457103.4	3768741	0.0013769	1.38E-03	4.12E-04	1.56E-04
6055	457094.2	3768738	0.0013739	1.37E-03	4.12E-04	1.56E-04
6056	457085	3768734	0.0013709	1.37E-03	4.11E-04	1.56E-04
6057	457075.8	3768730	0.0013677	1.37E-03	4.10E-04	1.55E-04
6058	457066.6	3768726	0.0013643	1.36E-03	4.09E-04	1.55E-04
6059	457057.4	3768722	0.0013605	1.36E-03	4.07E-04	1.54E-04
6060	457048.2	3768719	0.0013562	1.36E-03	4.06E-04	1.54E-04

6061	457039	3768715	0.0013516	1.35E-03	4.05E-04	1.53E-04
6062	457029.8	3768711	0.0013468	1.35E-03	4.03E-04	1.53E-04
6063	457020.6	3768707	0.001342	1.34E-03	4.02E-04	1.52E-04
6064	457011.4	3768704	0.001337	1.34E-03	4.00E-04	1.52E-04
6065	457002.3	3768700	0.0013316	1.33E-03	3.99E-04	1.51E-04
6066	456993.1	3768696	0.0013258	1.33E-03	3.97E-04	1.50E-04
6067	456983.9	3768692	0.0013197	1.32E-03	3.95E-04	1.50E-04
6068	456974.7	3768688	0.0013134	1.31E-03	3.93E-04	1.49E-04
6069	456965.5	3768685	0.001307	1.31E-03	3.91E-04	1.48E-04
6070	456956.3	3768681	0.0013005	1.30E-03	3.90E-04	1.48E-04
6071	456947.1	3768677	0.0012938	1.29E-03	3.88E-04	1.47E-04
6072	456937.9	3768673	0.0012868	1.29E-03	3.85E-04	1.46E-04
6073	456928.7	3768670	0.0012795	1.28E-03	3.83E-04	1.45E-04
6074	456897.3	3768649	0.0012711	1.27E-03	3.81E-04	1.44E-04
6075	456893.4	3768640	0.0012847	1.28E-03	3.85E-04	1.46E-04
6076	456889.6	3768631	0.0012983	1.30E-03	3.89E-04	1.47E-04
6077	456885.7	3768622	0.001312	1.31E-03	3.93E-04	1.49E-04
6078	456881.9	3768612	0.001326	1.33E-03	3.97E-04	1.50E-04
6079	456878	3768603	0.0013403	1.34E-03	4.01E-04	1.52E-04
6080	456874.1	3768594	0.0013547	1.35E-03	4.06E-04	1.54E-04
6081	456870.3	3768585	0.0013692	1.37E-03	4.10E-04	1.55E-04
6082	456866.4	3768576	0.0013837	1.38E-03	4.14E-04	1.57E-04
6083	456862.6	3768567	0.0013984	1.40E-03	4.19E-04	1.59E-04
6084	456858.7	3768557	0.0014133	1.41E-03	4.23E-04	1.60E-04
6085	456854.9	3768548	0.0014284	1.43E-03	4.28E-04	1.62E-04
6086	456851	3768539	0.0014437	1.44E-03	4.32E-04	1.64E-04
6087	456847.1	3768530	0.0014593	1.46E-03	4.37E-04	1.66E-04
6088	456843.3	3768521	0.0014753	1.48E-03	4.42E-04	1.67E-04
6089	456839.4	3768512	0.0014914	1.49E-03	4.47E-04	1.69E-04
6090	456835.6	3768502	0.0015077	1.51E-03	4.52E-04	1.71E-04
6091	456831.7	3768493	0.0015243	1.52E-03	4.57E-04	1.73E-04
6092	456827.9	3768484	0.001541	1.54E-03	4.62E-04	1.75E-04
6093	456824	3768475	0.0015581	1.56E-03	4.67E-04	1.77E-04
6094	456820.1	3768466	0.0015755	1.58E-03	4.72E-04	1.79E-04
6095	456816.3	3768457	0.0015929	1.59E-03	4.77E-04	1.81E-04
6096	456800.9	3768420	0.0016658	1.67E-03	4.99E-04	1.89E-04
6097	456797	3768411	0.0016847	1.68E-03	5.05E-04	1.91E-04
6098	456793.1	3768402	0.0017038	1.70E-03	5.10E-04	1.93E-04
6099	456789.3	3768393	0.001723	1.72E-03	5.16E-04	1.95E-04
6100	456785.4	3768383	0.0017424	1.74E-03	5.22E-04	1.98E-04
6101	456781.6	3768374	0.0017621	1.76E-03	5.28E-04	2.00E-04
6102	456777.7	3768365	0.0017822	1.78E-03	5.34E-04	2.02E-04
6103	456773.9	3768356	0.0018025	1.80E-03	5.40E-04	2.05E-04
6104	456770	3768347	0.001823	1.82E-03	5.46E-04	2.07E-04
6105	456766.1	3768338	0.0018432	1.84E-03	5.52E-04	2.09E-04
6106	456762.3	3768328	0.0018636	1.86E-03	5.58E-04	2.11E-04
6107	456758.4	3768319	0.0018841	1.88E-03	5.64E-04	2.14E-04

6108	456754.6	3768310	0.0019049	1.90E-03	5.71E-04	2.16E-04
6109	456750.7	3768301	0.001926	1.93E-03	5.77E-04	2.19E-04
6110	456746.8	3768292	0.001947	1.95E-03	5.83E-04	2.21E-04
6111	456743	3768283	0.0019679	1.97E-03	5.89E-04	2.23E-04
6112	456739.1	3768273	0.0019885	1.99E-03	5.96E-04	2.26E-04
6113	456735.3	3768264	0.0020091	2.01E-03	6.02E-04	2.28E-04
6114	456731.4	3768255	0.0020296	2.03E-03	6.08E-04	2.30E-04
6115	456727.6	3768246	0.0020506	2.05E-03	6.14E-04	2.33E-04
6116	457333.9	3768832	0.0013696	1.37E-03	4.10E-04	1.55E-04
6117	457343.9	3768832	0.0013821	1.38E-03	4.14E-04	1.57E-04
6118	457353.9	3768832	0.0013951	1.40E-03	4.18E-04	1.58E-04
6119	457363.8	3768832	0.0014081	1.41E-03	4.22E-04	1.60E-04
6120	457373.8	3768832	0.0014213	1.42E-03	4.26E-04	1.61E-04
6121	457383.8	3768832	0.0014348	1.43E-03	4.30E-04	1.63E-04
6122	457393.7	3768832	0.001449	1.45E-03	4.34E-04	1.64E-04
6123	457403.7	3768832	0.0014639	1.46E-03	4.38E-04	1.66E-04
6124	457413.7	3768832	0.0014793	1.48E-03	4.43E-04	1.68E-04
6125	457423.7	3768832	0.0014942	1.49E-03	4.48E-04	1.70E-04
6126	457433.6	3768832	0.0015078	1.51E-03	4.52E-04	1.71E-04
6127	457443.6	3768832	0.0015219	1.52E-03	4.56E-04	1.73E-04
6128	457453.6	3768832	0.0015376	1.54E-03	4.61E-04	1.74E-04
6129	457463.5	3768832	0.0015554	1.56E-03	4.66E-04	1.76E-04
6130	457473.5	3768832	0.001574	1.57E-03	4.71E-04	1.79E-04
6131	457483.5	3768832	0.0015932	1.59E-03	4.77E-04	1.81E-04
6132	457493.4	3768832	0.0016131	1.61E-03	4.83E-04	1.83E-04
6133	457503.4	3768832	0.0016337	1.63E-03	4.89E-04	1.85E-04
6134	457513.4	3768832	0.0016549	1.65E-03	4.96E-04	1.88E-04
6135	457523.4	3768832	0.0016761	1.68E-03	5.02E-04	1.90E-04
6136	457533.3	3768832	0.0016983	1.70E-03	5.09E-04	1.93E-04
6137	457543.3	3768832	0.0017202	1.72E-03	5.15E-04	1.95E-04
6138	457553.3	3768832	0.0017409	1.74E-03	5.21E-04	1.98E-04
6139	457563.2	3768832	0.0017624	1.76E-03	5.28E-04	2.00E-04
6140	457573.2	3768832	0.0017862	1.79E-03	5.35E-04	2.03E-04
6141	457583.2	3768832	0.0018135	1.81E-03	5.43E-04	2.06E-04
6142	457593.2	3768832	0.0018419	1.84E-03	5.52E-04	2.09E-04
6143	457603.1	3768832	0.0018715	1.87E-03	5.61E-04	2.12E-04
6144	457613.1	3768832	0.0019022	1.90E-03	5.70E-04	2.16E-04
6145	457623.1	3768832	0.001934	1.93E-03	5.79E-04	2.19E-04
6146	457633	3768832	0.0019668	1.97E-03	5.89E-04	2.23E-04
6147	457643	3768832	0.002	2.00E-03	5.99E-04	2.27E-04
6148	457653	3768832	0.0020343	2.03E-03	6.09E-04	2.31E-04
6149	457662.9	3768832	0.0020703	2.07E-03	6.20E-04	2.35E-04
6150	457672.9	3768832	0.0021086	2.11E-03	6.32E-04	2.39E-04
6151	457682.9	3768832	0.0021483	2.15E-03	6.43E-04	2.44E-04
6152	457692.9	3768832	0.0021874	2.19E-03	6.55E-04	2.48E-04
6153	457702.8	3768832	0.0022233	2.22E-03	6.66E-04	2.52E-04
6154	457296.4	3768861	0.0012433	1.24E-03	3.72E-04	1.41E-04

6155	457287.2	3768857	0.0012443	1.24E-03	3.73E-04	1.41E-04
6156	457278	3768853	0.0012454	1.25E-03	3.73E-04	1.41E-04
6157	457268.7	3768849	0.0012465	1.25E-03	3.73E-04	1.41E-04
6158	457259.5	3768846	0.0012483	1.25E-03	3.74E-04	1.42E-04
6159	457250.3	3768842	0.0012503	1.25E-03	3.74E-04	1.42E-04
6160	457241.1	3768838	0.0012526	1.25E-03	3.75E-04	1.42E-04
6161	457231.9	3768834	0.0012543	1.25E-03	3.76E-04	1.42E-04
6162	457222.7	3768831	0.0012558	1.26E-03	3.76E-04	1.42E-04
6163	457213.5	3768827	0.0012572	1.26E-03	3.77E-04	1.43E-04
6164	457204.3	3768823	0.0012582	1.26E-03	3.77E-04	1.43E-04
6165	457195.1	3768819	0.0012593	1.26E-03	3.77E-04	1.43E-04
6166	457185.9	3768815	0.0012605	1.26E-03	3.78E-04	1.43E-04
6167	457176.7	3768812	0.0012619	1.26E-03	3.78E-04	1.43E-04
6168	457167.5	3768808	0.0012629	1.26E-03	3.78E-04	1.43E-04
6169	457158.3	3768804	0.0012636	1.26E-03	3.78E-04	1.43E-04
6170	457149.1	3768800	0.0012732	1.27E-03	3.81E-04	1.44E-04
6171	457139.9	3768796	0.0012722	1.27E-03	3.81E-04	1.44E-04
6172	457130.7	3768793	0.0012712	1.27E-03	3.81E-04	1.44E-04
6173	457121.5	3768789	0.00127	1.27E-03	3.80E-04	1.44E-04
6174	457112.3	3768785	0.0012687	1.27E-03	3.80E-04	1.44E-04
6175	457103.1	3768781	0.0012672	1.27E-03	3.80E-04	1.44E-04
6176	457093.9	3768777	0.0012654	1.27E-03	3.79E-04	1.44E-04
6177	457084.7	3768774	0.0012633	1.26E-03	3.78E-04	1.43E-04
6178	457075.5	3768770	0.0012611	1.26E-03	3.78E-04	1.43E-04
6179	457066.3	3768766	0.0012588	1.26E-03	3.77E-04	1.43E-04
6180	457057.1	3768762	0.0012561	1.26E-03	3.76E-04	1.43E-04
6181	457047.9	3768759	0.0012529	1.25E-03	3.75E-04	1.42E-04
6182	457038.6	3768755	0.0012495	1.25E-03	3.74E-04	1.42E-04
6183	457029.4	3768751	0.0012459	1.25E-03	3.73E-04	1.41E-04
6184	457020.2	3768747	0.0012421	1.24E-03	3.72E-04	1.41E-04
6185	457011	3768743	0.001238	1.24E-03	3.71E-04	1.40E-04
6186	457001.8	3768740	0.0012336	1.23E-03	3.69E-04	1.40E-04
6187	456992.6	3768736	0.0012291	1.23E-03	3.68E-04	1.39E-04
6188	456983.4	3768732	0.0012244	1.22E-03	3.67E-04	1.39E-04
6189	456974.2	3768728	0.0012195	1.22E-03	3.65E-04	1.38E-04
6190	456965	3768724	0.0012143	1.21E-03	3.64E-04	1.38E-04
6191	456955.8	3768721	0.001209	1.21E-03	3.62E-04	1.37E-04
6192	456946.6	3768717	0.0012035	1.20E-03	3.60E-04	1.37E-04
6193	456937.4	3768713	0.0011978	1.20E-03	3.59E-04	1.36E-04
6194	456928.2	3768709	0.001192	1.19E-03	3.57E-04	1.35E-04
6195	456891.4	3768694	0.0011675	1.17E-03	3.50E-04	1.32E-04
6196	456882.2	3768690	0.0011612	1.16E-03	3.48E-04	1.32E-04
6197	456869.1	3768677	0.0011666	1.17E-03	3.49E-04	1.32E-04
6198	456865.3	3768668	0.0011783	1.18E-03	3.53E-04	1.34E-04
6199	456861.4	3768659	0.0011901	1.19E-03	3.56E-04	1.35E-04
6200	456857.5	3768650	0.0012019	1.20E-03	3.60E-04	1.36E-04
6201	456853.7	3768641	0.0012139	1.21E-03	3.64E-04	1.38E-04

6202	456849.8	3768632	0.001226	1.23E-03	3.67E-04	1.39E-04
6203	456845.9	3768622	0.0012382	1.24E-03	3.71E-04	1.40E-04
6204	456842.1	3768613	0.0012506	1.25E-03	3.75E-04	1.42E-04
6205	456838.2	3768604	0.0012632	1.26E-03	3.78E-04	1.43E-04
6206	456834.4	3768595	0.0012761	1.28E-03	3.82E-04	1.45E-04
6207	456830.5	3768586	0.001289	1.29E-03	3.86E-04	1.46E-04
6208	456826.6	3768576	0.0013019	1.30E-03	3.90E-04	1.48E-04
6209	456822.8	3768567	0.0013151	1.32E-03	3.94E-04	1.49E-04
6210	456818.9	3768558	0.0013283	1.33E-03	3.98E-04	1.51E-04
6211	456815	3768549	0.001342	1.34E-03	4.02E-04	1.52E-04
6212	456811.2	3768540	0.0013559	1.36E-03	4.06E-04	1.54E-04
6213	456807.3	3768531	0.0013698	1.37E-03	4.10E-04	1.55E-04
6214	456803.4	3768521	0.0013839	1.38E-03	4.14E-04	1.57E-04
6215	456799.6	3768512	0.0013982	1.40E-03	4.19E-04	1.59E-04
6216	456795.7	3768503	0.0014128	1.41E-03	4.23E-04	1.60E-04
6217	456791.9	3768494	0.0014276	1.43E-03	4.28E-04	1.62E-04
6218	456788	3768485	0.0014425	1.44E-03	4.32E-04	1.64E-04
6219	456784.1	3768476	0.0014576	1.46E-03	4.37E-04	1.65E-04
6220	456780.3	3768466	0.001473	1.47E-03	4.41E-04	1.67E-04
6221	456776.4	3768457	0.0014887	1.49E-03	4.46E-04	1.69E-04
6222	456761	3768421	0.0015536	1.55E-03	4.65E-04	1.76E-04
6223	456757.1	3768411	0.0015702	1.57E-03	4.70E-04	1.78E-04
6224	456753.2	3768402	0.0015872	1.59E-03	4.75E-04	1.80E-04
6225	456749.4	3768393	0.0016045	1.60E-03	4.81E-04	1.82E-04
6226	456745.5	3768384	0.0016218	1.62E-03	4.86E-04	1.84E-04
6227	456741.6	3768375	0.0016395	1.64E-03	4.91E-04	1.86E-04
6228	456737.8	3768366	0.001657	1.66E-03	4.96E-04	1.88E-04
6229	456733.9	3768356	0.0016747	1.67E-03	5.02E-04	1.90E-04
6230	456730.1	3768347	0.0016923	1.69E-03	5.07E-04	1.92E-04
6231	456726.2	3768338	0.0017104	1.71E-03	5.12E-04	1.94E-04
6232	456722.3	3768329	0.0017287	1.73E-03	5.18E-04	1.96E-04
6233	456718.5	3768320	0.001747	1.75E-03	5.23E-04	1.98E-04
6234	456714.6	3768310	0.0017653	1.77E-03	5.29E-04	2.00E-04
6235	456710.7	3768301	0.0017835	1.78E-03	5.34E-04	2.02E-04
6236	456706.9	3768292	0.0018015	1.80E-03	5.40E-04	2.04E-04
6237	456703	3768283	0.0018196	1.82E-03	5.45E-04	2.06E-04
6238	456699.2	3768274	0.0018379	1.84E-03	5.50E-04	2.09E-04
6239	456695.3	3768265	0.0018563	1.86E-03	5.56E-04	2.11E-04
6240	456691.4	3768255	0.0018746	1.87E-03	5.61E-04	2.13E-04
6241	456687.6	3768246	0.001893	1.89E-03	5.67E-04	2.15E-04
6242	457333.9	3768872	0.0012476	1.25E-03	3.74E-04	1.42E-04
6243	457343.9	3768872	0.0012583	1.26E-03	3.77E-04	1.43E-04
6244	457353.9	3768872	0.0012693	1.27E-03	3.80E-04	1.44E-04
6245	457363.9	3768872	0.0012801	1.28E-03	3.83E-04	1.45E-04
6246	457373.8	3768872	0.0012905	1.29E-03	3.87E-04	1.46E-04
6247	457383.8	3768872	0.0013012	1.30E-03	3.90E-04	1.48E-04
6248	457393.8	3768872	0.0013127	1.31E-03	3.93E-04	1.49E-04

6249	457403.7	3768872	0.0013253	1.33E-03	3.97E-04	1.50E-04
6250	457413.7	3768872	0.0013383	1.34E-03	4.01E-04	1.52E-04
6251	457423.7	3768872	0.0013517	1.35E-03	4.05E-04	1.53E-04
6252	457433.6	3768872	0.0013655	1.37E-03	4.09E-04	1.55E-04
6253	457443.6	3768872	0.0013798	1.38E-03	4.13E-04	1.57E-04
6254	457453.6	3768872	0.0013939	1.39E-03	4.17E-04	1.58E-04
6255	457463.6	3768872	0.0014074	1.41E-03	4.22E-04	1.60E-04
6256	457473.5	3768872	0.0014214	1.42E-03	4.26E-04	1.61E-04
6257	457483.5	3768872	0.0014364	1.44E-03	4.30E-04	1.63E-04
6258	457493.5	3768872	0.0014531	1.45E-03	4.35E-04	1.65E-04
6259	457503.4	3768872	0.0014703	1.47E-03	4.40E-04	1.67E-04
6260	457513.4	3768872	0.0014873	1.49E-03	4.45E-04	1.69E-04
6261	457523.4	3768872	0.001504	1.50E-03	4.50E-04	1.71E-04
6262	457533.3	3768872	0.0015212	1.52E-03	4.56E-04	1.73E-04
6263	457543.3	3768872	0.0015397	1.54E-03	4.61E-04	1.75E-04
6264	457553.3	3768872	0.0015599	1.56E-03	4.67E-04	1.77E-04
6265	457563.3	3768872	0.0015808	1.58E-03	4.73E-04	1.79E-04
6266	457573.2	3768872	0.0016018	1.60E-03	4.80E-04	1.82E-04
6267	457583.2	3768872	0.001622	1.62E-03	4.86E-04	1.84E-04
6268	457593.2	3768872	0.0016429	1.64E-03	4.92E-04	1.86E-04
6269	457603.1	3768872	0.0016654	1.67E-03	4.99E-04	1.89E-04
6270	457613.1	3768872	0.0016902	1.69E-03	5.06E-04	1.92E-04
6271	457623.1	3768872	0.0017159	1.72E-03	5.14E-04	1.95E-04
6272	457633.1	3768872	0.0017417	1.74E-03	5.22E-04	1.98E-04
6273	457643	3768872	0.0017669	1.77E-03	5.29E-04	2.00E-04
6274	457653	3768872	0.0017928	1.79E-03	5.37E-04	2.03E-04
6275	457663	3768872	0.0018206	1.82E-03	5.45E-04	2.07E-04
6276	457672.9	3768872	0.0018511	1.85E-03	5.54E-04	2.10E-04
6277	457682.9	3768872	0.0018827	1.88E-03	5.64E-04	2.14E-04
6278	457692.9	3768872	0.0019154	1.92E-03	5.74E-04	2.17E-04
6279	457702.8	3768872	0.0019493	1.95E-03	5.84E-04	2.21E-04
6280	457296.3	3768901	0.0011392	1.14E-03	3.41E-04	1.29E-04
6281	457287.1	3768897	0.0011409	1.14E-03	3.42E-04	1.29E-04
6282	457277.9	3768893	0.0011426	1.14E-03	3.42E-04	1.30E-04
6283	457268.7	3768889	0.0011445	1.14E-03	3.43E-04	1.30E-04
6284	457259.5	3768886	0.0011461	1.15E-03	3.43E-04	1.30E-04
6285	457250.3	3768882	0.0011473	1.15E-03	3.44E-04	1.30E-04
6286	457241.1	3768878	0.0011485	1.15E-03	3.44E-04	1.30E-04
6287	457231.8	3768874	0.0011497	1.15E-03	3.44E-04	1.30E-04
6288	457222.6	3768870	0.0011509	1.15E-03	3.45E-04	1.31E-04
6289	457213.4	3768867	0.001152	1.15E-03	3.45E-04	1.31E-04
6290	457204.2	3768863	0.0011537	1.15E-03	3.46E-04	1.31E-04
6291	457195	3768859	0.0011558	1.16E-03	3.46E-04	1.31E-04
6292	457185.8	3768855	0.0011579	1.16E-03	3.47E-04	1.31E-04
6293	457176.5	3768851	0.0011594	1.16E-03	3.47E-04	1.32E-04
6294	457167.3	3768848	0.0011604	1.16E-03	3.48E-04	1.32E-04
6295	457158.1	3768844	0.0011615	1.16E-03	3.48E-04	1.32E-04

6296	457148.9	3768840	0.0011626	1.16E-03	3.48E-04	1.32E-04
6297	457139.7	3768836	0.0011631	1.16E-03	3.48E-04	1.32E-04
6298	457130.5	3768833	0.0011635	1.16E-03	3.48E-04	1.32E-04
6299	457121.3	3768829	0.0011637	1.16E-03	3.49E-04	1.32E-04
6300	457112	3768825	0.0011706	1.17E-03	3.51E-04	1.33E-04
6301	457102.8	3768821	0.0011696	1.17E-03	3.50E-04	1.33E-04
6302	457093.6	3768817	0.0011685	1.17E-03	3.50E-04	1.33E-04
6303	457084.4	3768814	0.0011673	1.17E-03	3.50E-04	1.32E-04
6304	457075.2	3768810	0.0011658	1.17E-03	3.49E-04	1.32E-04
6305	457066	3768806	0.0011641	1.16E-03	3.49E-04	1.32E-04
6306	457056.8	3768802	0.0011621	1.16E-03	3.48E-04	1.32E-04
6307	457047.5	3768798	0.0011599	1.16E-03	3.47E-04	1.32E-04
6308	457038.3	3768795	0.0011575	1.16E-03	3.47E-04	1.31E-04
6309	457029.1	3768791	0.0011549	1.15E-03	3.46E-04	1.31E-04
6310	457019.9	3768787	0.0011521	1.15E-03	3.45E-04	1.31E-04
6311	457010.7	3768783	0.0011491	1.15E-03	3.44E-04	1.30E-04
6312	457001.5	3768779	0.0011459	1.15E-03	3.43E-04	1.30E-04
6313	456992.2	3768776	0.0011426	1.14E-03	3.42E-04	1.30E-04
6314	456983	3768772	0.001139	1.14E-03	3.41E-04	1.29E-04
6315	456973.8	3768768	0.0011352	1.14E-03	3.40E-04	1.29E-04
6316	456964.6	3768764	0.0011311	1.13E-03	3.39E-04	1.28E-04
6317	456955.4	3768760	0.0011267	1.13E-03	3.37E-04	1.28E-04
6318	456946.2	3768757	0.0011222	1.12E-03	3.36E-04	1.27E-04
6319	456937	3768753	0.0011176	1.12E-03	3.35E-04	1.27E-04
6320	456927.7	3768749	0.0011129	1.11E-03	3.33E-04	1.26E-04
6321	456890.9	3768734	0.0010928	1.09E-03	3.27E-04	1.24E-04
6322	456881.7	3768730	0.0010874	1.09E-03	3.26E-04	1.23E-04
6323	456872.5	3768726	0.0010819	1.08E-03	3.24E-04	1.23E-04
6324	456863.2	3768723	0.0010762	1.08E-03	3.22E-04	1.22E-04
6325	456854	3768719	0.0010706	1.07E-03	3.21E-04	1.21E-04
6326	456840.9	3768706	0.0010749	1.07E-03	3.22E-04	1.22E-04
6327	456837.1	3768697	0.0010853	1.09E-03	3.25E-04	1.23E-04
6328	456833.2	3768687	0.0010957	1.10E-03	3.28E-04	1.24E-04
6329	456829.3	3768678	0.0011062	1.11E-03	3.31E-04	1.26E-04
6330	456825.5	3768669	0.0011167	1.12E-03	3.34E-04	1.27E-04
6331	456821.6	3768660	0.0011271	1.13E-03	3.38E-04	1.28E-04
6332	456817.7	3768651	0.0011377	1.14E-03	3.41E-04	1.29E-04
6333	456813.9	3768641	0.0011484	1.15E-03	3.44E-04	1.30E-04
6334	456810	3768632	0.0011593	1.16E-03	3.47E-04	1.32E-04
6335	456806.1	3768623	0.0011703	1.17E-03	3.51E-04	1.33E-04
6336	456802.3	3768614	0.0011815	1.18E-03	3.54E-04	1.34E-04
6337	456798.4	3768605	0.0011928	1.19E-03	3.57E-04	1.35E-04
6338	456794.5	3768596	0.0012042	1.20E-03	3.61E-04	1.37E-04
6339	456790.7	3768586	0.0012157	1.22E-03	3.64E-04	1.38E-04
6340	456786.8	3768577	0.0012273	1.23E-03	3.68E-04	1.39E-04
6341	456782.9	3768568	0.0012391	1.24E-03	3.71E-04	1.41E-04
6342	456779.1	3768559	0.001251	1.25E-03	3.75E-04	1.42E-04

6343	456775.2	3768550	0.0012633	1.26E-03	3.78E-04	1.43E-04
6344	456771.3	3768540	0.0012758	1.28E-03	3.82E-04	1.45E-04
6345	456767.5	3768531	0.0012883	1.29E-03	3.86E-04	1.46E-04
6346	456763.6	3768522	0.001301	1.30E-03	3.90E-04	1.48E-04
6347	456759.7	3768513	0.0013139	1.31E-03	3.94E-04	1.49E-04
6348	456755.9	3768504	0.0013271	1.33E-03	3.97E-04	1.51E-04
6349	456752	3768495	0.0013404	1.34E-03	4.01E-04	1.52E-04
6350	456748.1	3768485	0.0013538	1.35E-03	4.05E-04	1.54E-04
6351	456744.3	3768476	0.0013674	1.37E-03	4.10E-04	1.55E-04
6352	456740.4	3768467	0.0013812	1.38E-03	4.14E-04	1.57E-04
6353	456736.5	3768458	0.0013953	1.40E-03	4.18E-04	1.58E-04
6354	456721.1	3768421	0.0014535	1.45E-03	4.35E-04	1.65E-04
6355	456717.2	3768412	0.0014684	1.47E-03	4.40E-04	1.67E-04
6356	456713.3	3768403	0.0014835	1.48E-03	4.44E-04	1.68E-04
6357	456709.5	3768394	0.0014989	1.50E-03	4.49E-04	1.70E-04
6358	456705.6	3768384	0.0015145	1.51E-03	4.54E-04	1.72E-04
6359	456701.7	3768375	0.0015301	1.53E-03	4.58E-04	1.74E-04
6360	456697.8	3768366	0.0015457	1.55E-03	4.63E-04	1.75E-04
6361	456694	3768357	0.0015614	1.56E-03	4.68E-04	1.77E-04
6362	456690.1	3768348	0.0015771	1.58E-03	4.72E-04	1.79E-04
6363	456686.2	3768338	0.0015932	1.59E-03	4.77E-04	1.81E-04
6364	456682.4	3768329	0.0016093	1.61E-03	4.82E-04	1.83E-04
6365	456678.5	3768320	0.0016256	1.63E-03	4.87E-04	1.84E-04
6366	456674.6	3768311	0.0016416	1.64E-03	4.92E-04	1.86E-04
6367	456670.8	3768302	0.0016576	1.66E-03	4.96E-04	1.88E-04
6368	456666.9	3768292	0.0016735	1.67E-03	5.01E-04	1.90E-04
6369	456663	3768283	0.0016896	1.69E-03	5.06E-04	1.92E-04
6370	456659.2	3768274	0.0017058	1.71E-03	5.11E-04	1.94E-04
6371	456655.3	3768265	0.001722	1.72E-03	5.16E-04	1.95E-04
6372	456651.4	3768256	0.0017381	1.74E-03	5.21E-04	1.97E-04
6373	456647.6	3768247	0.0017543	1.75E-03	5.25E-04	1.99E-04
6374	457334	3768912	0.0011424	1.14E-03	3.42E-04	1.30E-04
6375	457343.9	3768912	0.0011516	1.15E-03	3.45E-04	1.31E-04
6376	457353.9	3768912	0.001161	1.16E-03	3.48E-04	1.32E-04
6377	457363.9	3768912	0.0011707	1.17E-03	3.51E-04	1.33E-04
6378	457373.8	3768912	0.0011807	1.18E-03	3.54E-04	1.34E-04
6379	457383.8	3768912	0.0011909	1.19E-03	3.57E-04	1.35E-04
6380	457393.8	3768912	0.0012015	1.20E-03	3.60E-04	1.36E-04
6381	457403.8	3768912	0.0012124	1.21E-03	3.63E-04	1.38E-04
6382	457413.7	3768912	0.0012236	1.22E-03	3.66E-04	1.39E-04
6383	457423.7	3768912	0.0012342	1.23E-03	3.70E-04	1.40E-04
6384	457433.7	3768912	0.0012441	1.24E-03	3.73E-04	1.41E-04
6385	457443.6	3768912	0.0012541	1.25E-03	3.76E-04	1.42E-04
6386	457453.6	3768912	0.0012652	1.27E-03	3.79E-04	1.44E-04
6387	457463.6	3768912	0.0012777	1.28E-03	3.83E-04	1.45E-04
6388	457473.5	3768912	0.0012906	1.29E-03	3.87E-04	1.46E-04
6389	457483.5	3768912	0.001304	1.30E-03	3.91E-04	1.48E-04

6390	457493.5	3768912	0.0013181	1.32E-03	3.95E-04	1.50E-04
6391	457503.5	3768912	0.0013326	1.33E-03	3.99E-04	1.51E-04
6392	457513.4	3768912	0.0013476	1.35E-03	4.04E-04	1.53E-04
6393	457523.4	3768912	0.0013631	1.36E-03	4.08E-04	1.55E-04
6394	457533.4	3768912	0.0013791	1.38E-03	4.13E-04	1.56E-04
6395	457543.3	3768912	0.0013945	1.39E-03	4.18E-04	1.58E-04
6396	457553.3	3768912	0.0014088	1.41E-03	4.22E-04	1.60E-04
6397	457563.3	3768912	0.0014234	1.42E-03	4.26E-04	1.61E-04
6398	457573.2	3768912	0.0014394	1.44E-03	4.31E-04	1.63E-04
6399	457583.2	3768912	0.0014574	1.46E-03	4.37E-04	1.65E-04
6400	457593.2	3768912	0.001476	1.48E-03	4.42E-04	1.67E-04
6401	457603.2	3768912	0.0014954	1.50E-03	4.48E-04	1.70E-04
6402	457613.1	3768912	0.0015158	1.52E-03	4.54E-04	1.72E-04
6403	457623.1	3768912	0.0015368	1.54E-03	4.60E-04	1.74E-04
6404	457633.1	3768912	0.0015586	1.56E-03	4.67E-04	1.77E-04
6405	457643	3768912	0.0015812	1.58E-03	4.74E-04	1.79E-04
6406	457653	3768912	0.0016045	1.60E-03	4.81E-04	1.82E-04
6407	457663	3768912	0.0016272	1.63E-03	4.87E-04	1.85E-04
6408	457672.9	3768912	0.0016483	1.65E-03	4.94E-04	1.87E-04
6409	457682.9	3768912	0.0016697	1.67E-03	5.00E-04	1.89E-04
6410	457692.9	3768912	0.0016933	1.69E-03	5.07E-04	1.92E-04
6411	457702.9	3768912	0.0017204	1.72E-03	5.15E-04	1.95E-04
6412	457296.8	3768941	0.0010479	1.05E-03	3.14E-04	1.19E-04
6413	457287.8	3768937	0.001049	1.05E-03	3.14E-04	1.19E-04
6414	457278.7	3768934	0.00105	1.05E-03	3.15E-04	1.19E-04
6415	457269.6	3768930	0.0010512	1.05E-03	3.15E-04	1.19E-04
6416	457260.6	3768926	0.0010524	1.05E-03	3.15E-04	1.19E-04
6417	457251.5	3768922	0.0010536	1.05E-03	3.16E-04	1.20E-04
6418	457242.5	3768919	0.0010549	1.05E-03	3.16E-04	1.20E-04
6419	457233.4	3768915	0.0010573	1.06E-03	3.17E-04	1.20E-04
6420	457224.3	3768911	0.00106	1.06E-03	3.17E-04	1.20E-04
6421	457215.3	3768907	0.0010623	1.06E-03	3.18E-04	1.21E-04
6422	457206.2	3768904	0.001064	1.06E-03	3.19E-04	1.21E-04
6423	457197.2	3768900	0.0010651	1.07E-03	3.19E-04	1.21E-04
6424	457188.1	3768896	0.0010662	1.07E-03	3.19E-04	1.21E-04
6425	457179	3768893	0.0010673	1.07E-03	3.20E-04	1.21E-04
6426	457170	3768889	0.0010691	1.07E-03	3.20E-04	1.21E-04
6427	457160.9	3768885	0.001071	1.07E-03	3.21E-04	1.22E-04
6428	457151.9	3768881	0.0010725	1.07E-03	3.21E-04	1.22E-04
6429	457142.8	3768878	0.0010733	1.07E-03	3.21E-04	1.22E-04
6430	457133.7	3768874	0.0010738	1.07E-03	3.22E-04	1.22E-04
6431	457124.7	3768870	0.0010742	1.07E-03	3.22E-04	1.22E-04
6432	457115.6	3768866	0.0010746	1.07E-03	3.22E-04	1.22E-04
6433	457106.6	3768863	0.0010752	1.08E-03	3.22E-04	1.22E-04
6434	457097.5	3768859	0.0010759	1.08E-03	3.22E-04	1.22E-04
6435	457088.4	3768855	0.0010821	1.08E-03	3.24E-04	1.23E-04
6436	457079.4	3768851	0.0010812	1.08E-03	3.24E-04	1.23E-04

6437	457070.3	3768848	0.0010802	1.08E-03	3.24E-04	1.23E-04
6438	457061.3	3768844	0.0010791	1.08E-03	3.23E-04	1.22E-04
6439	457052.2	3768840	0.0010778	1.08E-03	3.23E-04	1.22E-04
6440	457043.1	3768837	0.0010763	1.08E-03	3.22E-04	1.22E-04
6441	457034.1	3768833	0.0010746	1.07E-03	3.22E-04	1.22E-04
6442	457025	3768829	0.0010727	1.07E-03	3.21E-04	1.22E-04
6443	457016	3768825	0.0010707	1.07E-03	3.21E-04	1.21E-04
6444	457006.9	3768822	0.0010684	1.07E-03	3.20E-04	1.21E-04
6445	456997.8	3768818	0.0010659	1.07E-03	3.19E-04	1.21E-04
6446	456988.8	3768814	0.0010633	1.06E-03	3.18E-04	1.21E-04
6447	456979.7	3768810	0.0010604	1.06E-03	3.18E-04	1.20E-04
6448	456970.7	3768807	0.0010575	1.06E-03	3.17E-04	1.20E-04
6449	456961.6	3768803	0.0010543	1.05E-03	3.16E-04	1.20E-04
6450	456952.5	3768799	0.001051	1.05E-03	3.15E-04	1.19E-04
6451	456943.5	3768796	0.0010475	1.05E-03	3.14E-04	1.19E-04
6452	456934.4	3768792	0.0010439	1.04E-03	3.13E-04	1.18E-04
6453	456925.4	3768788	0.0010401	1.04E-03	3.12E-04	1.18E-04
6454	456898.2	3768777	0.001028	1.03E-03	3.08E-04	1.17E-04
6455	456889.1	3768773	0.0010236	1.02E-03	3.07E-04	1.16E-04
6456	456880.1	3768769	0.0010192	1.02E-03	3.05E-04	1.16E-04
6457	456871	3768766	0.0010147	1.01E-03	3.04E-04	1.15E-04
6458	456861.9	3768762	0.0010101	1.01E-03	3.03E-04	1.15E-04
6459	456852.9	3768758	0.0010054	1.01E-03	3.01E-04	1.14E-04
6460	456843.8	3768755	0.0010007	1.00E-03	3.00E-04	1.14E-04
6461	456834.8	3768751	0.000996	9.96E-04	2.98E-04	1.13E-04
6462	456825.7	3768747	0.0009911	9.91E-04	2.97E-04	1.12E-04
6463	456812.8	3768734	0.0009948	9.95E-04	2.98E-04	1.13E-04
6464	456809	3768725	0.0010036	1.00E-03	3.01E-04	1.14E-04
6465	456805.2	3768716	0.0010124	1.01E-03	3.03E-04	1.15E-04
6466	456801.4	3768707	0.0010213	1.02E-03	3.06E-04	1.16E-04
6467	456797.6	3768698	0.0010304	1.03E-03	3.09E-04	1.17E-04
6468	456793.8	3768689	0.0010395	1.04E-03	3.11E-04	1.18E-04
6469	456790	3768680	0.0010488	1.05E-03	3.14E-04	1.19E-04
6470	456786.2	3768671	0.001058	1.06E-03	3.17E-04	1.20E-04
6471	456782.4	3768662	0.0010672	1.07E-03	3.20E-04	1.21E-04
6472	456778.6	3768653	0.0010765	1.08E-03	3.22E-04	1.22E-04
6473	456774.8	3768644	0.001086	1.09E-03	3.25E-04	1.23E-04
6474	456771	3768635	0.0010957	1.10E-03	3.28E-04	1.24E-04
6475	456767.2	3768626	0.0011055	1.11E-03	3.31E-04	1.25E-04
6476	456763.4	3768617	0.0011154	1.12E-03	3.34E-04	1.27E-04
6477	456759.6	3768608	0.0011252	1.13E-03	3.37E-04	1.28E-04
6478	456755.8	3768599	0.0011352	1.14E-03	3.40E-04	1.29E-04
6479	456752	3768590	0.0011453	1.15E-03	3.43E-04	1.30E-04
6480	456748.2	3768581	0.0011557	1.16E-03	3.46E-04	1.31E-04
6481	456744.4	3768572	0.0011662	1.17E-03	3.49E-04	1.32E-04
6482	456740.6	3768563	0.001177	1.18E-03	3.53E-04	1.34E-04
6483	456736.8	3768554	0.0011877	1.19E-03	3.56E-04	1.35E-04

6484	456733	3768545	0.0011986	1.20E-03	3.59E-04	1.36E-04
6485	456729.2	3768536	0.0012097	1.21E-03	3.62E-04	1.37E-04
6486	456725.4	3768527	0.0012209	1.22E-03	3.66E-04	1.39E-04
6487	456721.6	3768518	0.0012323	1.23E-03	3.69E-04	1.40E-04
6488	456717.8	3768509	0.0012439	1.24E-03	3.73E-04	1.41E-04
6489	456714	3768500	0.0012556	1.26E-03	3.76E-04	1.42E-04
6490	456710.2	3768491	0.0012675	1.27E-03	3.80E-04	1.44E-04
6491	456706.4	3768481	0.0012795	1.28E-03	3.83E-04	1.45E-04
6492	456702.6	3768472	0.0012917	1.29E-03	3.87E-04	1.47E-04
6493	456698.8	3768463	0.001304	1.30E-03	3.91E-04	1.48E-04
6494	456695	3768454	0.0013166	1.32E-03	3.94E-04	1.49E-04
6495	456679.8	3768418	0.0013683	1.37E-03	4.10E-04	1.55E-04
6496	456676	3768409	0.0013815	1.38E-03	4.14E-04	1.57E-04
6497	456672.1	3768400	0.0013949	1.39E-03	4.18E-04	1.58E-04
6498	456668.3	3768391	0.0014085	1.41E-03	4.22E-04	1.60E-04
6499	456664.5	3768382	0.0014222	1.42E-03	4.26E-04	1.61E-04
6500	456660.7	3768373	0.001436	1.44E-03	4.30E-04	1.63E-04
6501	456656.9	3768364	0.0014496	1.45E-03	4.34E-04	1.64E-04
6502	456653.1	3768355	0.0014634	1.46E-03	4.38E-04	1.66E-04
6503	456649.3	3768346	0.0014772	1.48E-03	4.42E-04	1.68E-04
6504	456645.5	3768337	0.0014913	1.49E-03	4.47E-04	1.69E-04
6505	456641.7	3768328	0.0015054	1.51E-03	4.51E-04	1.71E-04
6506	456637.9	3768319	0.0015196	1.52E-03	4.55E-04	1.72E-04
6507	456634.1	3768310	0.0015336	1.53E-03	4.59E-04	1.74E-04
6508	456630.3	3768301	0.0015476	1.55E-03	4.64E-04	1.76E-04
6509	456626.5	3768292	0.0015614	1.56E-03	4.68E-04	1.77E-04
6510	456622.7	3768283	0.0015754	1.58E-03	4.72E-04	1.79E-04
6511	456618.9	3768274	0.0015896	1.59E-03	4.76E-04	1.80E-04
6512	456615.1	3768265	0.0016037	1.60E-03	4.80E-04	1.82E-04
6513	456611.3	3768256	0.0016177	1.62E-03	4.85E-04	1.84E-04
6514	456607.5	3768247	0.0016317	1.63E-03	4.89E-04	1.85E-04
6515	457334	3768952	0.0010521	1.05E-03	3.15E-04	1.19E-04
6516	457343.9	3768952	0.0010601	1.06E-03	3.18E-04	1.20E-04
6517	457353.9	3768952	0.0010683	1.07E-03	3.20E-04	1.21E-04
6518	457363.9	3768952	0.0010768	1.08E-03	3.23E-04	1.22E-04
6519	457373.9	3768952	0.0010855	1.09E-03	3.25E-04	1.23E-04
6520	457383.8	3768952	0.0010944	1.09E-03	3.28E-04	1.24E-04
6521	457393.8	3768952	0.0011029	1.10E-03	3.30E-04	1.25E-04
6522	457403.8	3768952	0.0011108	1.11E-03	3.33E-04	1.26E-04
6523	457413.7	3768952	0.0011188	1.12E-03	3.35E-04	1.27E-04
6524	457423.7	3768952	0.0011278	1.13E-03	3.38E-04	1.28E-04
6525	457433.7	3768952	0.001138	1.14E-03	3.41E-04	1.29E-04
6526	457443.7	3768952	0.0011485	1.15E-03	3.44E-04	1.30E-04
6527	457453.6	3768952	0.0011592	1.16E-03	3.47E-04	1.32E-04
6528	457463.6	3768952	0.00117	1.17E-03	3.50E-04	1.33E-04
6529	457473.6	3768952	0.001181	1.18E-03	3.54E-04	1.34E-04
6530	457483.5	3768952	0.0011926	1.19E-03	3.57E-04	1.35E-04

6531	457493.5	3768952	0.0012047	1.20E-03	3.61E-04	1.37E-04
6532	457503.5	3768952	0.0012172	1.22E-03	3.65E-04	1.38E-04
6533	457513.4	3768952	0.0012293	1.23E-03	3.68E-04	1.39E-04
6534	457523.4	3768952	0.0012405	1.24E-03	3.72E-04	1.41E-04
6535	457533.4	3768952	0.001252	1.25E-03	3.75E-04	1.42E-04
6536	457543.4	3768952	0.0012646	1.26E-03	3.79E-04	1.43E-04
6537	457553.3	3768952	0.0012789	1.28E-03	3.83E-04	1.45E-04
6538	457563.3	3768952	0.0012936	1.29E-03	3.87E-04	1.47E-04
6539	457573.3	3768952	0.0013086	1.31E-03	3.92E-04	1.48E-04
6540	457583.2	3768952	0.0013236	1.32E-03	3.96E-04	1.50E-04
6541	457593.2	3768952	0.0013392	1.34E-03	4.01E-04	1.52E-04
6542	457603.2	3768952	0.0013545	1.35E-03	4.06E-04	1.54E-04
6543	457613.1	3768952	0.0013689	1.37E-03	4.10E-04	1.55E-04
6544	457623.1	3768952	0.0013838	1.38E-03	4.14E-04	1.57E-04
6545	457633.1	3768952	0.0014	1.40E-03	4.19E-04	1.59E-04
6546	457643.1	3768952	0.0014185	1.42E-03	4.25E-04	1.61E-04
6547	457653	3768952	0.0014375	1.44E-03	4.31E-04	1.63E-04
6548	457663	3768952	0.0014571	1.46E-03	4.36E-04	1.65E-04
6549	457673	3768952	0.0014774	1.48E-03	4.43E-04	1.68E-04
6550	457682.9	3768952	0.0014983	1.50E-03	4.49E-04	1.70E-04
6551	457692.9	3768952	0.0015197	1.52E-03	4.55E-04	1.72E-04
6552	457702.9	3768952	0.0015413	1.54E-03	4.62E-04	1.75E-04
6553	457296.8	3768981	0.0009657	9.66E-04	2.89E-04	1.10E-04
6554	457287.7	3768977	0.0009667	9.67E-04	2.90E-04	1.10E-04
6555	457278.6	3768973	0.0009683	9.68E-04	2.90E-04	1.10E-04
6556	457269.6	3768970	0.0009699	9.70E-04	2.91E-04	1.10E-04
6557	457260.5	3768966	0.0009725	9.72E-04	2.91E-04	1.10E-04
6558	457251.4	3768962	0.0009747	9.75E-04	2.92E-04	1.11E-04
6559	457242.3	3768959	0.0009766	9.77E-04	2.93E-04	1.11E-04
6560	457233.3	3768955	0.0009781	9.78E-04	2.93E-04	1.11E-04
6561	457224.2	3768951	0.0009793	9.79E-04	2.93E-04	1.11E-04
6562	457215.1	3768947	0.0009806	9.81E-04	2.94E-04	1.11E-04
6563	457206	3768944	0.0009822	9.82E-04	2.94E-04	1.11E-04
6564	457196.9	3768940	0.0009839	9.84E-04	2.95E-04	1.12E-04
6565	457187.9	3768936	0.0009856	9.86E-04	2.95E-04	1.12E-04
6566	457178.8	3768932	0.0009872	9.87E-04	2.96E-04	1.12E-04
6567	457169.7	3768929	0.000989	9.89E-04	2.96E-04	1.12E-04
6568	457160.6	3768925	0.0009906	9.91E-04	2.97E-04	1.12E-04
6569	457151.6	3768921	0.0009918	9.92E-04	2.97E-04	1.13E-04
6570	457142.5	3768917	0.0009927	9.93E-04	2.97E-04	1.13E-04
6571	457133.4	3768914	0.0009937	9.94E-04	2.98E-04	1.13E-04
6572	457124.3	3768910	0.0009947	9.95E-04	2.98E-04	1.13E-04
6573	457115.3	3768906	0.0009955	9.96E-04	2.98E-04	1.13E-04
6574	457106.2	3768903	0.0009962	9.96E-04	2.98E-04	1.13E-04
6575	457097.1	3768899	0.0009968	9.97E-04	2.99E-04	1.13E-04
6576	457088	3768895	0.0009972	9.97E-04	2.99E-04	1.13E-04
6577	457078.9	3768891	0.0009975	9.97E-04	2.99E-04	1.13E-04

6578	457069.9	3768888	0.0009976	9.98E-04	2.99E-04	1.13E-04
6579	457060.8	3768884	0.0009975	9.97E-04	2.99E-04	1.13E-04
6580	457051.7	3768880	0.0009972	9.97E-04	2.99E-04	1.13E-04
6581	457042.6	3768876	0.0009968	9.97E-04	2.99E-04	1.13E-04
6582	457033.6	3768873	0.0009962	9.96E-04	2.98E-04	1.13E-04
6583	457024.5	3768869	0.0009954	9.95E-04	2.98E-04	1.13E-04
6584	457015.4	3768865	0.0009944	9.94E-04	2.98E-04	1.13E-04
6585	457006.3	3768861	0.0009932	9.93E-04	2.97E-04	1.13E-04
6586	456997.2	3768858	0.0009918	9.92E-04	2.97E-04	1.13E-04
6587	456988.2	3768854	0.0009923	9.92E-04	2.97E-04	1.13E-04
6588	456979.1	3768850	0.0009903	9.90E-04	2.97E-04	1.12E-04
6589	456970	3768846	0.0009881	9.88E-04	2.96E-04	1.12E-04
6590	456960.9	3768843	0.0009857	9.86E-04	2.95E-04	1.12E-04
6591	456951.9	3768839	0.0009832	9.83E-04	2.94E-04	1.12E-04
6592	456942.8	3768835	0.0009806	9.81E-04	2.94E-04	1.11E-04
6593	456933.7	3768832	0.0009778	9.78E-04	2.93E-04	1.11E-04
6594	456924.6	3768828	0.0009748	9.75E-04	2.92E-04	1.11E-04
6595	456897.4	3768817	0.000965	9.65E-04	2.89E-04	1.09E-04
6596	456888.3	3768813	0.0009615	9.61E-04	2.88E-04	1.09E-04
6597	456879.2	3768809	0.0009578	9.58E-04	2.87E-04	1.09E-04
6598	456870.2	3768805	0.000954	9.54E-04	2.86E-04	1.08E-04
6599	456861.1	3768802	0.0009501	9.50E-04	2.85E-04	1.08E-04
6600	456852	3768798	0.0009462	9.46E-04	2.83E-04	1.07E-04
6601	456842.9	3768794	0.0009422	9.42E-04	2.82E-04	1.07E-04
6602	456833.9	3768790	0.000938	9.38E-04	2.81E-04	1.06E-04
6603	456824.8	3768787	0.0009338	9.34E-04	2.80E-04	1.06E-04
6604	456815.7	3768783	0.0009296	9.30E-04	2.78E-04	1.05E-04
6605	456806.6	3768779	0.0009253	9.25E-04	2.77E-04	1.05E-04
6606	456797.5	3768775	0.0009209	9.21E-04	2.76E-04	1.04E-04
6607	456784.7	3768763	0.0009243	9.24E-04	2.77E-04	1.05E-04
6608	456780.9	3768754	0.000932	9.32E-04	2.79E-04	1.06E-04
6609	456777	3768745	0.0009398	9.40E-04	2.81E-04	1.07E-04
6610	456773.2	3768736	0.0009477	9.48E-04	2.84E-04	1.08E-04
6611	456769.4	3768727	0.0009555	9.56E-04	2.86E-04	1.08E-04
6612	456765.6	3768717	0.0009635	9.63E-04	2.89E-04	1.09E-04
6613	456761.8	3768708	0.0009715	9.71E-04	2.91E-04	1.10E-04
6614	456758	3768699	0.0009796	9.80E-04	2.93E-04	1.11E-04
6615	456754.2	3768690	0.0009879	9.88E-04	2.96E-04	1.12E-04
6616	456750.4	3768681	0.0009962	9.96E-04	2.98E-04	1.13E-04
6617	456746.6	3768672	0.0010045	1.00E-03	3.01E-04	1.14E-04
6618	456742.8	3768663	0.0010128	1.01E-03	3.03E-04	1.15E-04
6619	456738.9	3768654	0.0010213	1.02E-03	3.06E-04	1.16E-04
6620	456735.1	3768645	0.0010298	1.03E-03	3.08E-04	1.17E-04
6621	456731.3	3768636	0.0010386	1.04E-03	3.11E-04	1.18E-04
6622	456727.5	3768627	0.0010475	1.05E-03	3.14E-04	1.19E-04
6623	456723.7	3768618	0.0010565	1.06E-03	3.16E-04	1.20E-04
6624	456719.9	3768609	0.0010655	1.07E-03	3.19E-04	1.21E-04

6625	456716.1	3768600	0.0010746	1.07E-03	3.22E-04	1.22E-04
6626	456712.3	3768591	0.0010838	1.08E-03	3.25E-04	1.23E-04
6627	456708.5	3768582	0.0010932	1.09E-03	3.27E-04	1.24E-04
6628	456704.7	3768573	0.0011029	1.10E-03	3.30E-04	1.25E-04
6629	456700.9	3768564	0.0011126	1.11E-03	3.33E-04	1.26E-04
6630	456697	3768555	0.0011224	1.12E-03	3.36E-04	1.27E-04
6631	456693.2	3768546	0.0011323	1.13E-03	3.39E-04	1.28E-04
6632	456689.4	3768537	0.0011424	1.14E-03	3.42E-04	1.30E-04
6633	456685.6	3768527	0.0011526	1.15E-03	3.45E-04	1.31E-04
6634	456681.8	3768518	0.0011629	1.16E-03	3.48E-04	1.32E-04
6635	456678	3768509	0.0011734	1.17E-03	3.51E-04	1.33E-04
6636	456674.2	3768500	0.001184	1.18E-03	3.55E-04	1.34E-04
6637	456670.4	3768491	0.0011948	1.19E-03	3.58E-04	1.36E-04
6638	456666.6	3768482	0.0012058	1.21E-03	3.61E-04	1.37E-04
6639	456662.8	3768473	0.0012169	1.22E-03	3.64E-04	1.38E-04
6640	456658.9	3768464	0.0012282	1.23E-03	3.68E-04	1.39E-04
6641	456655.1	3768455	0.0012396	1.24E-03	3.71E-04	1.41E-04
6642	456639.9	3768419	0.0012864	1.29E-03	3.85E-04	1.46E-04
6643	456636.1	3768410	0.0012983	1.30E-03	3.89E-04	1.47E-04
6644	456632.3	3768401	0.0013103	1.31E-03	3.92E-04	1.49E-04
6645	456628.5	3768392	0.0013226	1.32E-03	3.96E-04	1.50E-04
6646	456624.7	3768383	0.0013349	1.33E-03	4.00E-04	1.51E-04
6647	456620.9	3768374	0.0013473	1.35E-03	4.04E-04	1.53E-04
6648	456617	3768365	0.0013596	1.36E-03	4.07E-04	1.54E-04
6649	456613.2	3768356	0.001372	1.37E-03	4.11E-04	1.56E-04
6650	456609.4	3768347	0.0013843	1.38E-03	4.15E-04	1.57E-04
6651	456605.6	3768338	0.001397	1.40E-03	4.18E-04	1.58E-04
6652	456601.8	3768328	0.0014096	1.41E-03	4.22E-04	1.60E-04
6653	456598	3768319	0.0014223	1.42E-03	4.26E-04	1.61E-04
6654	456594.2	3768310	0.0014349	1.43E-03	4.30E-04	1.63E-04
6655	456590.4	3768301	0.0014475	1.45E-03	4.34E-04	1.64E-04
6656	456586.6	3768292	0.0014602	1.46E-03	4.37E-04	1.66E-04
6657	456582.8	3768283	0.0014729	1.47E-03	4.41E-04	1.67E-04
6658	456578.9	3768274	0.0014853	1.49E-03	4.45E-04	1.69E-04
6659	456575.1	3768265	0.0014977	1.50E-03	4.49E-04	1.70E-04
6660	456571.3	3768256	0.0015101	1.51E-03	4.52E-04	1.71E-04
6661	456567.5	3768247	0.0015226	1.52E-03	4.56E-04	1.73E-04
6662	457334	3768992	0.0009699	9.70E-04	2.90E-04	1.10E-04
6663	457344	3768992	0.0009768	9.77E-04	2.93E-04	1.11E-04
6664	457353.9	3768992	0.000984	9.84E-04	2.95E-04	1.12E-04
6665	457363.9	3768992	0.0009913	9.91E-04	2.97E-04	1.12E-04
6666	457373.9	3768992	0.0009989	9.99E-04	2.99E-04	1.13E-04
6667	457383.8	3768992	0.0010067	1.01E-03	3.02E-04	1.14E-04
6668	457393.8	3768992	0.0010147	1.01E-03	3.04E-04	1.15E-04
6669	457403.8	3768992	0.001023	1.02E-03	3.06E-04	1.16E-04
6670	457413.8	3768992	0.0010315	1.03E-03	3.09E-04	1.17E-04
6671	457423.7	3768992	0.0010399	1.04E-03	3.11E-04	1.18E-04

6672	457433.7	3768992	0.0010479	1.05E-03	3.14E-04	1.19E-04
6673	457443.7	3768992	0.0010562	1.06E-03	3.16E-04	1.20E-04
6674	457453.6	3768992	0.0010647	1.06E-03	3.19E-04	1.21E-04
6675	457463.6	3768992	0.0010735	1.07E-03	3.22E-04	1.22E-04
6676	457473.6	3768992	0.0010826	1.08E-03	3.24E-04	1.23E-04
6677	457483.6	3768992	0.0010922	1.09E-03	3.27E-04	1.24E-04
6678	457493.5	3768992	0.0011028	1.10E-03	3.30E-04	1.25E-04
6679	457503.5	3768992	0.0011135	1.11E-03	3.34E-04	1.26E-04
6680	457513.5	3768992	0.0011242	1.12E-03	3.37E-04	1.28E-04
6681	457523.4	3768992	0.0011345	1.13E-03	3.40E-04	1.29E-04
6682	457533.4	3768992	0.001145	1.14E-03	3.43E-04	1.30E-04
6683	457543.4	3768992	0.0011563	1.16E-03	3.46E-04	1.31E-04
6684	457553.3	3768992	0.0011685	1.17E-03	3.50E-04	1.33E-04
6685	457563.3	3768992	0.0011811	1.18E-03	3.54E-04	1.34E-04
6686	457573.3	3768992	0.0011936	1.19E-03	3.58E-04	1.35E-04
6687	457583.3	3768992	0.0012057	1.21E-03	3.61E-04	1.37E-04
6688	457593.2	3768992	0.0012181	1.22E-03	3.65E-04	1.38E-04
6689	457603.2	3768992	0.0012313	1.23E-03	3.69E-04	1.40E-04
6690	457613.2	3768992	0.0012456	1.25E-03	3.73E-04	1.41E-04
6691	457623.1	3768992	0.0012603	1.26E-03	3.77E-04	1.43E-04
6692	457633.1	3768992	0.0012749	1.27E-03	3.82E-04	1.45E-04
6693	457643.1	3768992	0.0012889	1.29E-03	3.86E-04	1.46E-04
6694	457653	3768992	0.0013034	1.30E-03	3.90E-04	1.48E-04
6695	457663	3768992	0.0013187	1.32E-03	3.95E-04	1.50E-04
6696	457673	3768992	0.0013355	1.34E-03	4.00E-04	1.52E-04
6697	457683	3768992	0.0013528	1.35E-03	4.05E-04	1.53E-04
6698	457692.9	3768992	0.0013701	1.37E-03	4.10E-04	1.55E-04
6699	457702.9	3768992	0.0013869	1.39E-03	4.15E-04	1.57E-04
6700	457296.8	3769021	0.0008954	8.95E-04	2.68E-04	1.02E-04
6701	457287.7	3769017	0.0008973	8.97E-04	2.69E-04	1.02E-04
6702	457278.6	3769013	0.0008989	8.99E-04	2.69E-04	1.02E-04
6703	457269.5	3769010	0.0009002	9.00E-04	2.70E-04	1.02E-04
6704	457260.4	3769006	0.0009014	9.01E-04	2.70E-04	1.02E-04
6705	457251.3	3769002	0.0009029	9.03E-04	2.70E-04	1.02E-04
6706	457242.2	3768998	0.0009047	9.05E-04	2.71E-04	1.03E-04
6707	457233.1	3768995	0.000907	9.07E-04	2.72E-04	1.03E-04
6708	457224	3768991	0.0009091	9.09E-04	2.72E-04	1.03E-04
6709	457214.9	3768987	0.0009109	9.11E-04	2.73E-04	1.03E-04
6710	457205.8	3768984	0.0009124	9.12E-04	2.73E-04	1.04E-04
6711	457196.7	3768980	0.0009137	9.14E-04	2.74E-04	1.04E-04
6712	457187.7	3768976	0.0009149	9.15E-04	2.74E-04	1.04E-04
6713	457178.6	3768972	0.0009162	9.16E-04	2.74E-04	1.04E-04
6714	457169.5	3768969	0.0009176	9.18E-04	2.75E-04	1.04E-04
6715	457160.4	3768965	0.0009192	9.19E-04	2.75E-04	1.04E-04
6716	457151.3	3768961	0.0009209	9.21E-04	2.76E-04	1.04E-04
6717	457142.2	3768957	0.0009225	9.23E-04	2.76E-04	1.05E-04
6718	457133.1	3768954	0.0009239	9.24E-04	2.77E-04	1.05E-04

6719	457124	3768950	0.0009249	9.25E-04	2.77E-04	1.05E-04
6720	457114.9	3768946	0.0009257	9.26E-04	2.77E-04	1.05E-04
6721	457105.8	3768942	0.0009263	9.26E-04	2.77E-04	1.05E-04
6722	457096.7	3768939	0.0009269	9.27E-04	2.78E-04	1.05E-04
6723	457087.6	3768935	0.0009274	9.27E-04	2.78E-04	1.05E-04
6724	457078.5	3768931	0.0009277	9.28E-04	2.78E-04	1.05E-04
6725	457069.5	3768927	0.0009279	9.28E-04	2.78E-04	1.05E-04
6726	457060.4	3768924	0.000928	9.28E-04	2.78E-04	1.05E-04
6727	457051.3	3768920	0.0009284	9.28E-04	2.78E-04	1.05E-04
6728	457042.2	3768916	0.0009287	9.29E-04	2.78E-04	1.05E-04
6729	457033.1	3768912	0.0009289	9.29E-04	2.78E-04	1.05E-04
6730	457024	3768909	0.0009285	9.29E-04	2.78E-04	1.05E-04
6731	457014.9	3768905	0.0009279	9.28E-04	2.78E-04	1.05E-04
6732	457005.8	3768901	0.0009271	9.27E-04	2.78E-04	1.05E-04
6733	456996.7	3768897	0.0009261	9.26E-04	2.77E-04	1.05E-04
6734	456987.6	3768894	0.000925	9.25E-04	2.77E-04	1.05E-04
6735	456978.5	3768890	0.0009237	9.24E-04	2.77E-04	1.05E-04
6736	456969.4	3768886	0.0009223	9.22E-04	2.76E-04	1.05E-04
6737	456960.3	3768882	0.0009211	9.21E-04	2.76E-04	1.05E-04
6738	456951.2	3768879	0.0009196	9.20E-04	2.75E-04	1.04E-04
6739	456942.2	3768875	0.0009179	9.18E-04	2.75E-04	1.04E-04
6740	456933.1	3768871	0.0009171	9.17E-04	2.75E-04	1.04E-04
6741	456924	3768868	0.0009147	9.15E-04	2.74E-04	1.04E-04
6742	456896.7	3768856	0.0009068	9.07E-04	2.72E-04	1.03E-04
6743	456887.6	3768853	0.000904	9.04E-04	2.71E-04	1.03E-04
6744	456878.5	3768849	0.0009011	9.01E-04	2.70E-04	1.02E-04
6745	456869.4	3768845	0.0008981	8.98E-04	2.69E-04	1.02E-04
6746	456860.3	3768841	0.0008949	8.95E-04	2.68E-04	1.02E-04
6747	456851.2	3768838	0.0008917	8.92E-04	2.67E-04	1.01E-04
6748	456842.1	3768834	0.0008883	8.88E-04	2.66E-04	1.01E-04
6749	456833	3768830	0.0008849	8.85E-04	2.65E-04	1.00E-04
6750	456823.9	3768826	0.0008814	8.81E-04	2.64E-04	1.00E-04
6751	456814.9	3768823	0.0008777	8.78E-04	2.63E-04	9.96E-05
6752	456805.8	3768819	0.0008739	8.74E-04	2.62E-04	9.92E-05
6753	456796.7	3768815	0.0008701	8.70E-04	2.61E-04	9.87E-05
6754	456787.6	3768811	0.0008663	8.66E-04	2.59E-04	9.83E-05
6755	456778.5	3768808	0.0008623	8.62E-04	2.58E-04	9.78E-05
6756	456769.4	3768804	0.0008583	8.58E-04	2.57E-04	9.74E-05
6757	456756.5	3768791	0.0008612	8.61E-04	2.58E-04	9.77E-05
6758	456752.7	3768782	0.0008682	8.68E-04	2.60E-04	9.85E-05
6759	456748.9	3768773	0.0008753	8.75E-04	2.62E-04	9.93E-05
6760	456745	3768764	0.0008823	8.82E-04	2.64E-04	1.00E-04
6761	456741.2	3768755	0.0008893	8.89E-04	2.66E-04	1.01E-04
6762	456737.4	3768746	0.0008963	8.96E-04	2.68E-04	1.02E-04
6763	456733.6	3768737	0.0009034	9.03E-04	2.71E-04	1.02E-04
6764	456729.8	3768728	0.0009107	9.11E-04	2.73E-04	1.03E-04
6765	456726	3768719	0.000918	9.18E-04	2.75E-04	1.04E-04

6766	456722.1	3768710	0.0009253	9.25E-04	2.77E-04	1.05E-04
6767	456718.3	3768700	0.0009327	9.33E-04	2.79E-04	1.06E-04
6768	456714.5	3768691	0.00094	9.40E-04	2.82E-04	1.07E-04
6769	456710.7	3768682	0.0009474	9.47E-04	2.84E-04	1.07E-04
6770	456706.9	3768673	0.000955	9.55E-04	2.86E-04	1.08E-04
6771	456703.1	3768664	0.0009625	9.63E-04	2.88E-04	1.09E-04
6772	456699.2	3768655	0.0009702	9.70E-04	2.91E-04	1.10E-04
6773	456695.4	3768646	0.0009781	9.78E-04	2.93E-04	1.11E-04
6774	456691.6	3768637	0.0009861	9.86E-04	2.95E-04	1.12E-04
6775	456687.8	3768628	0.0009942	9.94E-04	2.98E-04	1.13E-04
6776	456684	3768619	0.0010024	1.00E-03	3.00E-04	1.14E-04
6777	456680.2	3768610	0.0010106	1.01E-03	3.03E-04	1.15E-04
6778	456676.3	3768601	0.0010189	1.02E-03	3.05E-04	1.16E-04
6779	456672.5	3768592	0.0010273	1.03E-03	3.08E-04	1.17E-04
6780	456668.7	3768583	0.0010359	1.04E-03	3.10E-04	1.18E-04
6781	456664.9	3768574	0.0010448	1.04E-03	3.13E-04	1.19E-04
6782	456661.1	3768565	0.0010536	1.05E-03	3.16E-04	1.20E-04
6783	456657.3	3768555	0.0010626	1.06E-03	3.18E-04	1.21E-04
6784	456653.5	3768546	0.0010717	1.07E-03	3.21E-04	1.22E-04
6785	456649.6	3768537	0.0010809	1.08E-03	3.24E-04	1.23E-04
6786	456645.8	3768528	0.0010903	1.09E-03	3.27E-04	1.24E-04
6787	456642	3768519	0.0010997	1.10E-03	3.29E-04	1.25E-04
6788	456638.2	3768510	0.0011093	1.11E-03	3.32E-04	1.26E-04
6789	456634.4	3768501	0.001119	1.12E-03	3.35E-04	1.27E-04
6790	456630.6	3768492	0.0011288	1.13E-03	3.38E-04	1.28E-04
6791	456626.7	3768483	0.0011389	1.14E-03	3.41E-04	1.29E-04
6792	456622.9	3768474	0.001149	1.15E-03	3.44E-04	1.30E-04
6793	456619.1	3768465	0.0011593	1.16E-03	3.47E-04	1.32E-04
6794	456615.3	3768456	0.0011696	1.17E-03	3.50E-04	1.33E-04
6795	456600	3768420	0.0012119	1.21E-03	3.63E-04	1.38E-04
6796	456596.2	3768410	0.0012229	1.22E-03	3.66E-04	1.39E-04
6797	456592.4	3768401	0.0012339	1.23E-03	3.70E-04	1.40E-04
6798	456588.6	3768392	0.001245	1.24E-03	3.73E-04	1.41E-04
6799	456584.8	3768383	0.0012561	1.26E-03	3.76E-04	1.43E-04
6800	456580.9	3768374	0.0012673	1.27E-03	3.80E-04	1.44E-04
6801	456577.1	3768365	0.0012784	1.28E-03	3.83E-04	1.45E-04
6802	456573.3	3768356	0.0012896	1.29E-03	3.86E-04	1.46E-04
6803	456569.5	3768347	0.0013009	1.30E-03	3.90E-04	1.48E-04
6804	456565.7	3768338	0.0013122	1.31E-03	3.93E-04	1.49E-04
6805	456561.9	3768329	0.0013235	1.32E-03	3.96E-04	1.50E-04
6806	456558.1	3768320	0.0013348	1.33E-03	4.00E-04	1.51E-04
6807	456554.2	3768311	0.0013462	1.35E-03	4.03E-04	1.53E-04
6808	456550.4	3768302	0.0013576	1.36E-03	4.07E-04	1.54E-04
6809	456546.6	3768293	0.0013689	1.37E-03	4.10E-04	1.55E-04
6810	456542.8	3768284	0.0013803	1.38E-03	4.13E-04	1.57E-04
6811	456539	3768275	0.0013916	1.39E-03	4.17E-04	1.58E-04
6812	456535.2	3768265	0.0014029	1.40E-03	4.20E-04	1.59E-04

6813	456531.3	3768256	0.0014141	1.41E-03	4.24E-04	1.60E-04
6814	456527.5	3768247	0.001425	1.43E-03	4.27E-04	1.62E-04
6815	457334	3769032	0.0008972	8.97E-04	2.69E-04	1.02E-04
6816	457344	3769032	0.0009033	9.03E-04	2.71E-04	1.02E-04
6817	457354	3769032	0.0009095	9.10E-04	2.72E-04	1.03E-04
6818	457363.9	3769032	0.000916	9.16E-04	2.74E-04	1.04E-04
6819	457373.9	3769032	0.0009227	9.23E-04	2.76E-04	1.05E-04
6820	457383.9	3769032	0.0009295	9.30E-04	2.78E-04	1.05E-04
6821	457393.8	3769032	0.0009366	9.37E-04	2.81E-04	1.06E-04
6822	457403.8	3769032	0.0009439	9.44E-04	2.83E-04	1.07E-04
6823	457413.8	3769032	0.0009514	9.51E-04	2.85E-04	1.08E-04
6824	457423.7	3769032	0.000959	9.59E-04	2.87E-04	1.09E-04
6825	457433.7	3769032	0.0009667	9.67E-04	2.90E-04	1.10E-04
6826	457443.7	3769032	0.0009747	9.75E-04	2.92E-04	1.11E-04
6827	457453.7	3769032	0.0009829	9.83E-04	2.94E-04	1.12E-04
6828	457463.6	3769032	0.0009915	9.91E-04	2.97E-04	1.12E-04
6829	457473.6	3769032	0.0010003	1.00E-03	3.00E-04	1.13E-04
6830	457483.6	3769032	0.0010088	1.01E-03	3.02E-04	1.14E-04
6831	457493.5	3769032	0.0010165	1.02E-03	3.04E-04	1.15E-04
6832	457503.5	3769032	0.0010245	1.02E-03	3.07E-04	1.16E-04
6833	457513.5	3769032	0.0010331	1.03E-03	3.09E-04	1.17E-04
6834	457523.4	3769032	0.0010428	1.04E-03	3.12E-04	1.18E-04
6835	457533.4	3769032	0.0010526	1.05E-03	3.15E-04	1.19E-04
6836	457543.4	3769032	0.0010628	1.06E-03	3.18E-04	1.21E-04
6837	457553.4	3769032	0.0010735	1.07E-03	3.22E-04	1.22E-04
6838	457563.3	3769032	0.0010844	1.08E-03	3.25E-04	1.23E-04
6839	457573.3	3769032	0.0010955	1.10E-03	3.28E-04	1.24E-04
6840	457583.3	3769032	0.0011069	1.11E-03	3.32E-04	1.26E-04
6841	457593.2	3769032	0.0011186	1.12E-03	3.35E-04	1.27E-04
6842	457603.2	3769032	0.00113	1.13E-03	3.38E-04	1.28E-04
6843	457613.2	3769032	0.0011403	1.14E-03	3.42E-04	1.29E-04
6844	457623.2	3769032	0.0011509	1.15E-03	3.45E-04	1.31E-04
6845	457633.1	3769032	0.0011623	1.16E-03	3.48E-04	1.32E-04
6846	457643.1	3769032	0.001175	1.17E-03	3.52E-04	1.33E-04
6847	457653.1	3769032	0.001188	1.19E-03	3.56E-04	1.35E-04
6848	457663	3769032	0.0012015	1.20E-03	3.60E-04	1.36E-04
6849	457673	3769032	0.0012156	1.22E-03	3.64E-04	1.38E-04
6850	457683	3769032	0.0012301	1.23E-03	3.68E-04	1.40E-04
6851	457692.9	3769032	0.0012451	1.25E-03	3.73E-04	1.41E-04
6852	457702.9	3769032	0.0012604	1.26E-03	3.78E-04	1.43E-04
6853	456713.9	3767325	0.0037712	3.77E-03	1.13E-03	4.28E-04
6854	456743.9	3767325	0.0039466	3.95E-03	1.18E-03	4.48E-04
6855	456773.9	3767325	0.0041303	4.13E-03	1.24E-03	4.69E-04
6856	456713.9	3767355	0.0038319	3.83E-03	1.15E-03	4.35E-04
6857	456743.9	3767355	0.0040182	4.02E-03	1.20E-03	4.56E-04
6858	456713.9	3767385	0.0038886	3.89E-03	1.16E-03	4.41E-04

	Daily Trips				
	687				
	Passenger Vehicles	2-Axle Trks	3-Axle Trks	4-Axle Trks	Total
Percentage	79.6%	3.5%	4.7%	12.2%	100%
# Daily Vehicles	547.00	24.00	32.00	84.00	686.9999313
# Annual Vehicles	199,655	8,760	11,680	30,660	250,755

Truck Travel

Onsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	8,760	17.1%	4.41E+00
3-Axle Trks	11,680	22.9%	1.28E-01
4-Axle Trks	30,660	60.0%	8.25E-01
Total	51,100	100%	---

DPM Lbs/ Yr	TRK_OUT1	TRK_OUT2	TRK_IN2	TRK_IN1			Total
Distance (m)	189.1	194.6	194.3	188			766
%	50%	50%	50%	50%	0%	0%	200%
2-Axle Trks	2.59E-01	2.67E-01	2.66E-01	2.58E-01	0.00E+00	0.00E+00	1.05E+00
3-Axle Trks	7.53E-03	7.75E-03	7.74E-03	7.48E-03	0.00E+00	0.00E+00	3.05E-02
4-Axle Trks	4.85E-02	4.99E-02	4.98E-02	4.82E-02	0.00E+00	0.00E+00	1.96E-01
Total	3.15E-01	3.24E-01	3.24E-01	3.13E-01	0.00E+00	0.00E+00	1.28E+00

Offsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	8,760	17.1%	3.78E-01
3-Axle Trks	11,680	22.9%	2.21E-01
4-Axle Trks	30,660	60.0%	1.77E+00
Total	51,100	100%	---

DPM Lbs/ Yr	CAR_IN1	CAR_OUT1	CAT_SOUT	POP_SOUT	JUR_OUT	CIT_OUT	Total
Gas Only	Y	Y	N	N	N	N	
Distance (m)	383.1	383.6	824.6	457.3	786.6	1933.6	4768.8
%	100%	100%	10%	10%	20%	60%	300%
2-Axle Trks	0.00E+00	0.00E+00	1.94E-02	1.07E-02	3.70E-02	2.73E-01	3.40E-01
3-Axle Trks	0.00E+00	0.00E+00	1.13E-02	6.28E-03	2.16E-02	1.59E-01	1.99E-01
4-Axle Trks	0.00E+00	0.00E+00	9.08E-02	5.03E-02	1.73E-01	1.28E+00	1.59E+00
Total	0.00E+00	0.00E+00	1.21E-01	6.74E-02	2.32E-01	1.71E+00	2.13E+00

Truck Idle

# of Idling Pts	25												
Truck Idling						Idle							Total
Category	# of Trucks / Yr	Idle EF (lbs / Event)	Time (Hr)	Lbs/ Yr	Lbs / Yr /Unit	25	0	0	0	0	0		25
2-Axle Trks	8,760	6.06E-05	0.25	1.33E-01	5.31E-03	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		1.33E-01
3-Axle Trks	11,680	9.32E-06	0.25	2.72E-02	1.09E-03	2.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		2.72E-02
4-Axle Trks	30,660	7.59E-05	0.25	5.82E-01	2.33E-02	5.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		5.82E-01
Total	51,100	--	--	7.42E-01	2.97E-02	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		7.42E-01

TRUs

Percent of Trucks	0		# of Units	1	
Onsite TRU Emissions					
Category	Percentage	# of TRUs / Yr	Time (Hr)	*DPM EF (lbs/Event)	Emissions (lb/Yr)
2-Axle Trks	15.5	0	0.50	4.19E-03	0.00
3-Axle Trks	4.9	0			0.00
4-Axle Trks	24.3	0			0.00
Total	45	0	Emission/Unit		0.00

* TRU EF * BHP * Load factor * Time in hours

Vehicle Emissions

Vehicle Travel Percentage / Count			
Category	# of Vehicles / Yr	% LDA	% LDT
Passenger Vehicles	199,655	72%	27.73%
# Vehicles		144,287	55,368

Category	TOG Exhaust EF (lb/Mile)	TOG Runloss EF (lb/Mile)
LDA	2.62E-05	4.68E-04
LDT	5.44E-05	1.10E-03

CARB TOG Speciation Profile Run Exhaust			Lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
75070	Acetaldehyde	2.80E-03	1.06E-02	8.43E-03
107028	Acrolein	1.30E-03	4.91E-03	3.91E-03
71432	Benzene	2.47E-02	9.32E-02	7.43E-02
106990	1,3-Butadiene	5.50E-03	2.08E-02	1.66E-02
100414	Ethylbenzene	1.05E-02	3.96E-02	3.16E-02
50000	Formaldehyde	1.58E-02	5.96E-02	4.76E-02
110543	Hexane	1.60E-02	6.04E-02	4.82E-02
67561	Methanol	1.20E-03	4.53E-03	3.61E-03
78933	Methyl Ethyl Ketone	2.00E-04	7.55E-04	6.02E-04
91203	Naphthalene	5.00E-04	1.89E-03	1.50E-03
115071	Propylene	3.06E-02	1.15E-01	9.21E-02
100425	Styrene	1.20E-03	4.53E-03	3.61E-03
108883	Toluene	5.76E-02	2.17E-01	1.73E-01
1330207	Xylenes	4.80E-02	1.81E-01	1.44E-01
9901	Diesel	6.00E-03	1.91E+00	7.33E-01

CARB TOG Speciation Profile Evaporative Losses			Lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
71432	Benzene	3.600E-03	1.36E-02	1.08E-02
100414	Ethylbenzene	1.180E-03	4.45E-03	3.55E-03
110543	Hexane	1.540E-02	5.81E-02	4.63E-02
108883	Toluene	1.700E-02	6.42E-02	5.12E-02
1330207	Xylenes	5.780E-03	2.18E-02	1.74E-02

Vehicle Emissions Travel Summary

Emissions Summary			Source Col	1		2		3		4		5		6		7		8		9		10		11		12			
			Vehicles	TRK_OUT1		TRK_OUT2		TRK_IN2		TRK_IN1		0		0		CAR_IN1		CAR_OUT1		CAT_SOUT		POP_SOUT		JUR_OUT		CIT_OUT		Total Percentage	Total Distance
			Cars	0%		0%		0%		0%		0%		0%		0%		0%		0%		0%		0%		0%			
				3.42%		3.52%		3.51%		3.40%		0.00%		0.00%		6.92%		6.93%		14.90%		8.26%		14.21%		34.94%		100.00%	5534.8
			Trucks	0%		0%		0%		0%		0%		0%		0%		0%		0%		0%		0%		0%			
				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%			
CAS#	Chemical Name	Lbs/mi/Hr	Lbs/mi/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr
75070	Acetaldehyde	6.33E-06	1.90E-02	1.08163E-07	0.000324488	1.11E-07	3.34E-04	1.11E-07	3.33E-04	1.08E-07	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-07	1.31E-03	4.39E-07	1.32E-03	9.43E-08	2.83E-04	5.23E-08	1.57E-04	1.80E-07	5.40E-04	1.33E-06	3.98E-03	2.97E-06	8.91E-03
107028	Acrolein	2.94E-06	8.82E-03	5.02185E-08	0.000150655	5.17E-08	1.55E-04	5.16E-08	1.55E-04	4.99E-08	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-07	6.10E-04	2.04E-07	6.11E-04	4.38E-08	1.31E-04	2.43E-08	7.29E-05	8.36E-08	2.51E-04	6.16E-07	1.85E-03	1.38E-06	4.14E-03
71432	Benzene	6.40E-05	1.92E-01	1.09322E-06	0.003279651	1.13E-06	3.38E-03	1.12E-06	3.37E-03	1.09E-06	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06	1.33E-02	4.44E-06	1.33E-02	9.53E-07	2.86E-03	5.29E-07	1.59E-03	1.82E-06	5.46E-03	1.34E-05	4.02E-02	3.00E-05	9.00E-02
106990	1,3-Butadiene	1.24E-05	3.73E-02	2.12463E-07	0.000637388	2.19E-07	6.56E-04	2.18E-07	6.55E-04	2.11E-07	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-07	2.58E-03	8.62E-07	2.59E-03	1.85E-07	5.56E-04	1.03E-07	3.08E-04	3.54E-07	1.06E-03	2.61E-06	7.82E-03	5.83E-06	1.75E-02
100414	Ethylbenzene	2.64E-05	7.92E-02	4.51193E-07	0.00135358	4.64E-07	1.39E-03	4.64E-07	1.39E-03	4.49E-07	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-06	5.48E-03	1.83E-06	5.49E-03	3.93E-07	1.18E-03	2.18E-07	6.55E-04	7.51E-07	2.25E-03	5.54E-06	1.66E-02	1.24E-05	3.72E-02
50000	Formaldehyde	3.57E-05	1.07E-01	6.10347E-07	0.001831042	6.28E-07	1.88E-03	6.27E-07	1.88E-03	6.07E-07	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06	7.42E-03	2.48E-06	7.43E-03	5.32E-07	1.60E-03	2.95E-07	8.86E-04	1.02E-06	3.05E-03	7.49E-06	2.25E-02	1.68E-05	5.03E-02
110543	Hexane	7.10E-05	2.13E-01	1.21297E-06	0.003638906	1.25E-06	3.74E-03	1.25E-06	3.74E-03	1.21E-06	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	1.47E-02	4.92E-06	1.48E-02	1.06E-06	3.17E-03	5.87E-07	1.76E-03	2.02E-06	6.05E-03	1.49E-05	4.47E-02	3.33E-05	9.99E-02
67561	Methanol	2.71E-06	8.14E-03	4.63555E-08	0.000139066	4.77E-08	1.43E-04	4.76E-08	1.43E-04	4.61E-08	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	5.63E-04	1.88E-07	5.64E-04	4.04E-08	1.21E-04	2.24E-08	6.73E-05	7.71E-08	2.31E-04	5.69E-07	1.71E-03	1.27E-06	3.82E-03
78933	Methyl Ethyl Ketone	4.52E-07	1.36E-03	7.72592E-09	2.31777E-05	7.95E-09	2.39E-05	7.94E-09	2.38E-05	7.68E-09	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-08	9.39E-05	3.13E-08	9.40E-05	6.74E-09	2.02E-05	3.74E-09	1.12E-05	1.29E-08	3.86E-05	9.48E-08	2.84E-04	2.12E-07	6.36E-04
91203	Naphthalene	1.13E-06	3.39E-03	1.93148E-08	5.79444E-05	1.99E-08	5.96E-05	1.98E-08	5.95E-05	1.92E-08	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-08	2.35E-04	7.84E-08	2.35E-04	1.68E-08	5.05E-05	9.34E-09	2.80E-05	3.21E-08	9.64E-05	2.37E-07	7.11E-04	5.30E-07	1.59E-03
115071	Propylene	6.92E-05	2.08E-01	1.18207E-06	0.003546195	1.22E-06	3.65E-03	1.21E-06	3.64E-03	1.18E-06	3.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-06	1.44E-02	4.80E-06	1.44E-02	1.03E-06	3.09E-03	5.72E-07	1.72E-03	1.97E-06	5.90E-03	1.45E-05	4.35E-02	3.24E-05	9.73E-02
100425	Styrene	2.71E-06	8.14E-03	4.63555E-08	0.000139066	4.77E-08	1.43E-04	4.76E-08	1.43E-04	4.61E-08	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	5.63E-04	1.88E-07	5.64E-04	4.04E-08	1.21E-04	2.24E-08	6.73E-05	7.71E-08	2.31E-04	5.69E-07	1.71E-03	1.27E-06	3.82E-03
108883	Toluene	1.69E-04	5.06E-01	2.88177E-06	0.0086453	2.97E-06	8.90E-03	2.96E-06	8.88E-03	2.87E-06	8.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	3.50E-02	1.17E-05	3.51E-02	2.51E-06	7.54E-03	1.39E-06	4.18E-03	4.79E-06	1.44E-02	3.54E-05	1.06E-01	7.91E-05	2.37E-01
1330207	Xylenes	1.22E-04	3.65E-01	2.0775E-06	0.006232496	2.14E-06	6.41E-03	2.13E-06	6.40E-03	2.07E-06	6.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06	2.53E-02	8.43E-06	2.53E-02	1.81E-06	5.44E-03	1.00E-06	3.01E-03	3.46E-06	1.04E-02	2.55E-05	7.65E-02	5.70E-05	1.71E-01
9901	Diesel	8.81E-04	2.64E+00	1.50E-05	3.60E-01	1.55E-05	3.71E-01	1.55E-05	3.70E-01	1.50E-05	3.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	1.83E-01	6.10E-05	1.83E-01	1.31E-05	1.61E-01	7.28E-06	8.92E-02	2.50E-05	3.07E-01	1.85E-04	2.26E+00	4.13E-04	4.65E+00

	Model Source		Source Col		Dat Col		Col	Row	CAS#	Chemical Name	Pol Count	Source Count
1	TRK_OUT1		1		8	1	8	98	75070	Acetaldehyde	15	19
2	TRK_OUT2		2		10	2	10	99	107028	Acrolein		
3	TRK_IN2		3		12	3	12	100	71432	Benzene		
4	TRK_IN1		4		14	4	14	101	106990	1-3,Butadiene		
5		0	5		16	5	16	102	100414	Ethylbenzene		
6		0	6		18	6	18	103	50000	Formaldehyde		
7	CAR_IN1		7		20	7	20	104	110543	Hexane		
8	CAR_OUT1		8		22	8	22	105	67561	Methanol		
9	CAT_SOUT		9		24	9	24	106	78933	Methyl Ethyl Ketone		
10	POP_SOUT		10		26	10	26	107	91203	Naphthalene		
11	JUR_OUT		11		28	11	28	108	115071	Propylene		
12	CIT_OUT		12		30	12	30	109	100425	Styrene		
13	Idle		Idle1		8		8	110	108883	Toluene		
14		0	Idle1		9		8	111	1330207	Xylenes		
15		0	Idle1		10		8	112	9901	Diesel		
16		0	Idle1		11		8					
17		0	Idle1		12		8	37		Idle		
18		0	Idle1		13		7	47		TRU		
19	TRU		TRU		7							
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1	8	98	1	1	TRK_OUT1	0	0	75070	Acetaldehyde	1	3.24E-04	1.08E-07	1
1	8	99	1	2	TRK_OUT1	0	0	107028	Acrolein	1	1.51E-04	5.02E-08	1
1	8	100	1	3	TRK_OUT1	0	0	71432	Benzene	1	3.28E-03	1.09E-06	1
1	8	101	1	4	TRK_OUT1	0	0	106990	1-3,Butadiene	1	6.37E-04	2.12E-07	1
1	8	102	1	5	TRK_OUT1	0	0	100414	Ethylbenzene	1	1.35E-03	4.51E-07	1
1	8	103	1	6	TRK_OUT1	0	0	50000	Formaldehyde	1	1.83E-03	6.10E-07	1
1	8	104	1	7	TRK_OUT1	0	0	110543	Hexane	1	3.64E-03	1.21E-06	1
1	8	105	1	8	TRK_OUT1	0	0	67561	Methanol	1	1.39E-04	4.64E-08	1
1	8	106	1	9	TRK_OUT1	0	0	78933	Methyl Ethyl Ketone	1	2.32E-05	7.73E-09	1
1	8	107	1	10	TRK_OUT1	0	0	91203	Naphthalene	1	5.79E-05	1.93E-08	1
1	8	108	1	11	TRK_OUT1	0	0	115071	Propylene	1	3.55E-03	1.18E-06	1
1	8	109	1	12	TRK_OUT1	0	0	100425	Styrene	1	1.39E-04	4.64E-08	1
1	8	110	1	13	TRK_OUT1	0	0	108883	Toluene	1	8.65E-03	2.88E-06	1
1	8	111	1	14	TRK_OUT1	0	0	1330207	Xylenes	1	6.23E-03	2.08E-06	1
1	8	112	1	15	TRK_OUT1	0	0	9901	Diesel	1	3.60E-01	1.50E-05	1
2	10	98	2	1	TRK_OUT2	0	0	75070	Acetaldehyde	1	3.34E-04	1.11E-07	1
2	10	99	2	2	TRK_OUT2	0	0	107028	Acrolein	1	1.55E-04	5.17E-08	1
2	10	100	2	3	TRK_OUT2	0	0	71432	Benzene	1	3.38E-03	1.13E-06	1
2	10	101	2	4	TRK_OUT2	0	0	106990	1-3,Butadiene	1	6.56E-04	2.19E-07	1
2	10	102	2	5	TRK_OUT2	0	0	100414	Ethylbenzene	1	1.39E-03	4.64E-07	1
2	10	103	2	6	TRK_OUT2	0	0	50000	Formaldehyde	1	1.88E-03	6.28E-07	1
2	10	104	2	7	TRK_OUT2	0	0	110543	Hexane	1	3.74E-03	1.25E-06	1
2	10	105	2	8	TRK_OUT2	0	0	67561	Methanol	1	1.43E-04	4.77E-08	1
2	10	106	2	9	TRK_OUT2	0	0	78933	Methyl Ethyl Ketone	1	2.39E-05	7.95E-09	1
2	10	107	2	10	TRK_OUT2	0	0	91203	Naphthalene	1	5.96E-05	1.99E-08	1
2	10	108	2	11	TRK_OUT2	0	0	115071	Propylene	1	3.65E-03	1.22E-06	1
2	10	109	2	12	TRK_OUT2	0	0	100425	Styrene	1	1.43E-04	4.77E-08	1
2	10	110	2	13	TRK_OUT2	0	0	108883	Toluene	1	8.90E-03	2.97E-06	1
2	10	111	2	14	TRK_OUT2	0	0	1330207	Xylenes	1	6.41E-03	2.14E-06	1
2	10	112	2	15	TRK_OUT2	0	0	9901	Diesel	1	3.71E-01	1.55E-05	1
3	12	98	3	1	TRK_IN2	0	0	75070	Acetaldehyde	1	3.33E-04	1.11E-07	1
3	12	99	3	2	TRK_IN2	0	0	107028	Acrolein	1	1.55E-04	5.16E-08	1
3	12	100	3	3	TRK_IN2	0	0	71432	Benzene	1	3.37E-03	1.12E-06	1
3	12	101	3	4	TRK_IN2	0	0	106990	1-3,Butadiene	1	6.55E-04	2.18E-07	1
3	12	102	3	5	TRK_IN2	0	0	100414	Ethylbenzene	1	1.39E-03	4.64E-07	1
3	12	103	3	6	TRK_IN2	0	0	50000	Formaldehyde	1	1.88E-03	6.27E-07	1
3	12	104	3	7	TRK_IN2	0	0	110543	Hexane	1	3.74E-03	1.25E-06	1
3	12	105	3	8	TRK_IN2	0	0	67561	Methanol	1	1.43E-04	4.76E-08	1
3	12	106	3	9	TRK_IN2	0	0	78933	Methyl Ethyl Ketone	1	2.38E-05	7.94E-09	1
3	12	107	3	10	TRK_IN2	0	0	91203	Naphthalene	1	5.95E-05	1.98E-08	1
3	12	108	3	11	TRK_IN2	0	0	115071	Propylene	1	3.64E-03	1.21E-06	1
3	12	109	3	12	TRK_IN2	0	0	100425	Styrene	1	1.43E-04	4.76E-08	1
3	12	110	3	13	TRK_IN2	0	0	108883	Toluene	1	8.88E-03	2.96E-06	1
3	12	111	3	14	TRK_IN2	0	0	1330207	Xylenes	1	6.40E-03	2.13E-06	1
3	12	112	3	15	TRK_IN2	0	0	9901	Diesel	1	3.70E-01	1.55E-05	1
4	14	98	4	1	TRK_IN1	0	0	75070	Acetaldehyde	1	3.23E-04	1.08E-07	1
4	14	99	4	2	TRK_IN1	0	0	107028	Acrolein	1	1.50E-04	4.99E-08	1
4	14	100	4	3	TRK_IN1	0	0	71432	Benzene	1	3.26E-03	1.09E-06	1
4	14	101	4	4	TRK_IN1	0	0	106990	1-3,Butadiene	1	6.34E-04	2.11E-07	1
4	14	102	4	5	TRK_IN1	0	0	100414	Ethylbenzene	1	1.35E-03	4.49E-07	1
4	14	103	4	6	TRK_IN1	0	0	50000	Formaldehyde	1	1.82E-03	6.07E-07	1
4	14	104	4	7	TRK_IN1	0	0	110543	Hexane	1	3.62E-03	1.21E-06	1
4	14	105	4	8	TRK_IN1	0	0	67561	Methanol	1	1.38E-04	4.61E-08	1
4	14	106	4	9	TRK_IN1	0	0	78933	Methyl Ethyl Ketone	1	2.30E-05	7.68E-09	1
4	14	107	4	10	TRK_IN1	0	0	91203	Naphthalene	1	5.76E-05	1.92E-08	1
4	14	108	4	11	TRK_IN1	0	0	115071	Propylene	1	3.53E-03	1.18E-06	1
4	14	109	4	12	TRK_IN1	0	0	100425	Styrene	1	1.38E-04	4.61E-08	1
4	14	110	4	13	TRK_IN1	0	0	108883	Toluene	1	8.60E-03	2.87E-06	1
4	14	111	4	14	TRK_IN1	0	0	1330207	Xylenes	1	6.20E-03	2.07E-06	1
4	14	112	4	15	TRK_IN1	0	0	9901	Diesel	1	3.58E-01	1.50E-05	1
5	16	98	5	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
5	16	99	5	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
5	16	100	5	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
5	16	101	5	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
5	16	102	5	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
5	16	103	5	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
5	16	104	5	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
5	16	105	5	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
5	16	106	5	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
5	16	107	5	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
5	16	108	5	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
5	16	109	5	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
5	16	110	5	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
5	16	111	5	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
5	16	112	5	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
6	18	98	6	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
6	18	99	6	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
6	18	100	6	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
6	18	101	6	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
6	18	102	6	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
6	18	103	6	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
6	18	104	6	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
6	18	105	6	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
6	18	106	6	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
6	18	107	6	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
6	18	108	6	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
6	18	109	6	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
6	18	110	6	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
6	18	111	6	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
6	18	112	6	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
7	20	98	7	1	CAR_IN1	0	0	75070	Acetaldehyde	1	1.31E-03	4.38E-07	1
7	20	99	7	2	CAR_IN1	0	0	107028	Acrolein	1	6.10E-04	2.03E-07	1
7	20	100	7	3	CAR_IN1	0	0	71432	Benzene	1	1.33E-02	4.43E-06	1
7	20	101	7	4	CAR_IN1	0	0	106990	1-3,Butadiene	1	2.58E-03	8.61E-07	1
7	20	102	7	5	CAR_IN1	0	0	100414	Ethylbenzene	1	5.48E-03	1.83E-06	1
7	20	103	7	6	CAR_IN1	0	0	50000	Formaldehyde	1	7.42E-03	2.47E-06	1
7	20	104	7	7	CAR_IN1	0	0	110543	Hexane	1	1.47E-02	4.91E-06	1
7	20	105	7	8	CAR_IN1	0	0	67561	Methanol	1	5.63E-04	1.88E-07	1
7	20	106	7	9	CAR_IN1	0	0	78933	Methyl Ethyl Ketone	1	9.39E-05	3.13E-08	1
7	20	107	7	10	CAR_IN1	0	0	91203	Naphthalene	1	2.35E-04	7.83E-08	1
7	20	108	7	11	CAR_IN1	0	0	115071	Propylene	1	1.44E-02	4.79E-06	1
7	20	109	7	12	CAR_IN1	0	0	100425	Styrene	1	5.63E-04	1.88E-07	1
7	20	110	7	13	CAR_IN1	0	0	108883	Toluene	1	3.50E-02	1.17E-05	1
7	20	111	7	14	CAR_IN1	0	0	1330207	Xylenes	1	2.53E-02	8.42E-06	1
7	20	112	7	15	CAR_IN1	0	0	9901	Diesel	1	1.83E-01	6.10E-05	1
8	22	98	8	1	CAR_OUT1	0	0	75070	Acetaldehyde	1	1.32E-03	4.39E-07	1
8	22	99	8	2	CAR_OUT1	0	0	107028	Acrolein	1	6.11E-04	2.04E-07	1
8	22	100	8	3	CAR_OUT1	0	0	71432	Benzene	1	1.33E-02	4.44E-06	1
8	22	101	8	4	CAR_OUT1	0	0	106990	1-3,Butadiene	1	2.59E-03	8.62E-07	1
8	22	102	8	5	CAR_OUT1	0	0	100414	Ethylbenzene	1	5.49E-03	1.83E-06	1
8	22	103	8	6	CAR_OUT1	0	0	50000	Formaldehyde	1	7.43E-03	2.48E-06	1
8	22	104	8	7	CAR_OUT1	0	0	110543	Hexane	1	1.48E-02	4.92E-06	1
8	22	105	8	8	CAR_OUT1	0	0	67561	Methanol	1	5.64E-04	1.88E-07	1
8	22	106	8	9	CAR_OUT1	0	0	78933	Methyl Ethyl Ketone	1	9.40E-05	3.13E-08	1
8	22	107	8	10	CAR_OUT1	0	0	91203	Naphthalene	1	2.35E-04	7.84E-08	1
8	22	108	8	11	CAR_OUT1	0	0	115071	Propylene	1	1.44E-02	4.80E-06	1
8	22	109	8	12	CAR_OUT1	0	0	100425	Styrene	1	5.64E-04	1.88E-07	1
8	22	110	8	13	CAR_OUT1	0	0	108883	Toluene	1	3.51E-02	1.17E-05	1
8	22	111	8	14	CAR_OUT1	0	0	1330207	Xylenes	1	2.53E-02	8.43E-06	1
8	22	112	8	15	CAR_OUT1	0	0	9901	Diesel	1	1.83E-01	6.10E-05	1
9	24	98	9	1	CAT_SOUT	0	0	75070	Acetaldehyde	1	2.83E-04	9.43E-08	1
9	24	99	9	2	CAT_SOUT	0	0	107028	Acrolein	1	1.31E-04	4.38E-08	1
9	24	100	9	3	CAT_SOUT	0	0	71432	Benzene	1	2.86E-03	9.53E-07	1
9	24	101	9	4	CAT_SOUT	0	0	106990	1-3,Butadiene	1	5.56E-04	1.85E-07	1
9	24	102	9	5	CAT_SOUT	0	0	100414	Ethylbenzene	1	1.18E-03	3.93E-07	1
9	24	103	9	6	CAT_SOUT	0	0	50000	Formaldehyde	1	1.60E-03	5.32E-07	1
9	24	104	9	7	CAT_SOUT	0	0	110543	Hexane	1	3.17E-03	1.06E-06	1
9	24	105	9	8	CAT_SOUT	0	0	67561	Methanol	1	1.21E-04	4.04E-08	1
9	24	106	9	9	CAT_SOUT	0	0	78933	Methyl Ethyl Ketone	1	2.02E-05	6.74E-09	1
9	24	107	9	10	CAT_SOUT	0	0	91203	Naphthalene	1	5.05E-05	1.68E-08	1
9	24	108	9	11	CAT_SOUT	0	0	115071	Propylene	1	3.09E-03	1.03E-06	1
9	24	109	9	12	CAT_SOUT	0	0	100425	Styrene	1	1.21E-04	4.04E-08	1
9	24	110	9	13	CAT_SOUT	0	0	108883	Toluene	1	7.54E-03	2.51E-06	1
9	24	111	9	14	CAT_SOUT	0	0	1330207	Xylenes	1	5.44E-03	1.81E-06	1
9	24	112	9	15	CAT_SOUT	0	0	9901	Diesel	1	1.61E-01	1.31E-05	1
10	26	98	10	1	POP_SOUT	0	0	75070	Acetaldehyde	1	1.57E-04	5.23E-08	1
10	26	99	10	2	POP_SOUT	0	0	107028	Acrolein	1	7.29E-05	2.43E-08	1
10	26	100	10	3	POP_SOUT	0	0	71432	Benzene	1	1.59E-03	5.29E-07	1
10	26	101	10	4	POP_SOUT	0	0	106990	1-3,Butadiene	1	3.08E-04	1.03E-07	1
10	26	102	10	5	POP_SOUT	0	0	100414	Ethylbenzene	1	6.55E-04	2.18E-07	1
10	26	103	10	6	POP_SOUT	0	0	50000	Formaldehyde	1	8.86E-04	2.95E-07	1
10	26	104	10	7	POP_SOUT	0	0	110543	Hexane	1	1.76E-03	5.87E-07	1
10	26	105	10	8	POP_SOUT	0	0	67561	Methanol	1	6.73E-05	2.24E-08	1
10	26	106	10	9	POP_SOUT	0	0	78933	Methyl Ethyl Ketone	1	1.12E-05	3.74E-09	1
10	26	107	10	10	POP_SOUT	0	0	91203	Naphthalene	1	2.80E-05	9.34E-09	1
10	26	108	10	11	POP_SOUT	0	0	115071	Propylene	1	1.72E-03	5.72E-07	1

10	26	109	10	12	POP_SOUT	0	0	100425	Styrene	1	6.73E-05	2.24E-08	1
10	26	110	10	13	POP_SOUT	0	0	108883	Toluene	1	4.18E-03	1.39E-06	1
10	26	111	10	14	POP_SOUT	0	0	1330207	Xylenes	1	3.01E-03	1.00E-06	1
10	26	112	10	15	POP_SOUT	0	0	9901	Diesel	1	8.92E-02	7.28E-06	1
11	28	98	11	1	JUR_OUT	0	0	75070	Acetaldehyde	1	5.40E-04	1.80E-07	1
11	28	99	11	2	JUR_OUT	0	0	107028	Acrolein	1	2.51E-04	8.36E-08	1
11	28	100	11	3	JUR_OUT	0	0	71432	Benzene	1	5.46E-03	1.82E-06	1
11	28	101	11	4	JUR_OUT	0	0	106990	1-3,Butadiene	1	1.06E-03	3.54E-07	1
11	28	102	11	5	JUR_OUT	0	0	100414	Ethylbenzene	1	2.25E-03	7.51E-07	1
11	28	103	11	6	JUR_OUT	0	0	50000	Formaldehyde	1	3.05E-03	1.02E-06	1
11	28	104	11	7	JUR_OUT	0	0	110543	Hexane	1	6.05E-03	2.02E-06	1
11	28	105	11	8	JUR_OUT	0	0	67561	Methanol	1	2.31E-04	7.71E-08	1
11	28	106	11	9	JUR_OUT	0	0	78933	Methyl Ethyl Ketone	1	3.86E-05	1.29E-08	1
11	28	107	11	10	JUR_OUT	0	0	91203	Naphthalene	1	9.64E-05	3.21E-08	1
11	28	108	11	11	JUR_OUT	0	0	115071	Propylene	1	5.90E-03	1.97E-06	1
11	28	109	11	12	JUR_OUT	0	0	100425	Styrene	1	2.31E-04	7.71E-08	1
11	28	110	11	13	JUR_OUT	0	0	108883	Toluene	1	1.44E-02	4.79E-06	1
11	28	111	11	14	JUR_OUT	0	0	1330207	Xylenes	1	1.04E-02	3.46E-06	1
11	28	112	11	15	JUR_OUT	0	0	9901	Diesel	1	3.07E-01	2.50E-05	1
12	30	98	12	1	CIT_OUT	0	0	75070	Acetaldehyde	1	3.98E-03	1.33E-06	1
12	30	99	12	2	CIT_OUT	0	0	107028	Acrolein	1	1.85E-03	6.16E-07	1
12	30	100	12	3	CIT_OUT	0	0	71432	Benzene	1	4.02E-02	1.34E-05	1
12	30	101	12	4	CIT_OUT	0	0	106990	1-3,Butadiene	1	7.82E-03	2.61E-06	1
12	30	102	12	5	CIT_OUT	0	0	100414	Ethylbenzene	1	1.66E-02	5.54E-06	1
12	30	103	12	6	CIT_OUT	0	0	50000	Formaldehyde	1	2.25E-02	7.49E-06	1
12	30	104	12	7	CIT_OUT	0	0	110543	Hexane	1	4.47E-02	1.49E-05	1
12	30	105	12	8	CIT_OUT	0	0	67561	Methanol	1	1.71E-03	5.69E-07	1
12	30	106	12	9	CIT_OUT	0	0	78933	Methyl Ethyl Ketone	1	2.84E-04	9.48E-08	1
12	30	107	12	10	CIT_OUT	0	0	91203	Naphthalene	1	7.11E-04	2.37E-07	1
12	30	108	12	11	CIT_OUT	0	0	115071	Propylene	1	4.35E-02	1.45E-05	1
12	30	109	12	12	CIT_OUT	0	0	100425	Styrene	1	1.71E-03	5.69E-07	1
12	30	110	12	13	CIT_OUT	0	0	108883	Toluene	1	1.06E-01	3.54E-05	1
12	30	111	12	14	CIT_OUT	0	0	1330207	Xylenes	1	7.65E-02	2.55E-05	1
12	30	112	12	15	CIT_OUT	0	0	9901	Diesel	1	2.26E+00	1.85E-04	1
Idle	8	98	13	1	Idle	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	8	99	13	2	Idle	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	8	100	13	3	Idle	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	8	101	13	4	Idle	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	8	102	13	5	Idle	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	8	103	13	6	Idle	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	8	104	13	7	Idle	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	8	105	13	8	Idle	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	8	106	13	9	Idle	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	8	107	13	10	Idle	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	8	108	13	11	Idle	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	8	109	13	12	Idle	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	8	110	13	13	Idle	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	8	111	13	14	Idle	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	8	37	13	15	Idle	0	0	9901	Diesel	1	2.97E-02	2.97E-02	1
Idle	9	98	14	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	9	99	14	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	9	100	14	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	9	101	14	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	9	102	14	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	9	103	14	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	9	104	14	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	9	105	14	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	9	106	14	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	9	107	14	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	9	108	14	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	9	109	14	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	9	110	14	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	9	111	14	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	9	37	14	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	10	98	15	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	10	99	15	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	10	100	15	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	10	101	15	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	10	102	15	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	10	103	15	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	10	104	15	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	10	105	15	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	10	106	15	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	10	107	15	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	10	108	15	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	10	109	15	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	10	110	15	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	10	111	15	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	10	37	15	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	11	98	16	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	11	99	16	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	11	100	16	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	11	101	16	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	11	102	16	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	11	103	16	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	11	104	16	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	11	105	16	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	11	106	16	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	11	107	16	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	11	108	16	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	11	109	16	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	11	110	16	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	11	111	16	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	11	37	16	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	12	98	17	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	12	99	17	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	12	100	17	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	12	101	17	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	12	102	17	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	12	103	17	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	12	104	17	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	12	105	17	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	12	106	17	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	12	107	17	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	12	108	17	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	12	109	17	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	12	110	17	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	12	111	17	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	12	37	17	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	13	98	18	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	13	99	18	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	13	100	18	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	13	101	18	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	13	102	18	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	13	103	18	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	13	104	18	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	13	105	18	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	13	106	18	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	13	107	18	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	13	108	18	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	13	109	18	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	13	110	18	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	13	111	18	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	13	37	18	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
TRU	7	98	19	1	TRU	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
TRU	7	99	19	2	TRU	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
TRU	7	100	19	3	TRU	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
TRU	7	101	19	4	TRU	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
TRU	7	102	19	5	TRU	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
TRU	7	103	19	6	TRU	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
TRU	7	104	19	7	TRU	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
TRU	7	105	19	8	TRU	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
TRU	7	106	19	9	TRU	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
TRU	7	107	19	10	TRU	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
TRU	7	108	19	11	TRU	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
TRU	7	109	19	12	TRU	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
TRU	7	110	19	13	TRU	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
TRU	7	111	19	14	TRU	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
TRU	7	47	19	15	TRU	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1

	Daily Trips
	687

	Passenger Vehicles	2-Axle Trks	3-Axle Trks	4-Axle Trks	Total
Percentage	79.6%	3.5%	4.7%	12.2%	100%
# Daily Vehicles	547.00	24.00	32.00	84.00	686.9999313
# Annual Vehicles	199,655	8,760	11,680	30,660	250,755

Truck Travel

Onsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	8,760	17.1%	2.36E-01
3-Axle Trks	11,680	22.9%	5.88E+00
4-Axle Trks	30,660	60.0%	3.36E-01
Total	51,100	100%	---

DPM Lbs/ Yr							Total
Distance (m)							0
5	0%	100%	0%	0%	0%	0%	100%
2-Axle Trks	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3-Axle Trks	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4-Axle Trks	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Offsite Truck Travel Emissions			
Category	# of Trucks / Yr	% of Total	DPM EF (lb/Mile)
2-Axle Trks	8,760	17.1%	3.78E-01
3-Axle Trks	11,680	22.9%	2.21E-01
4-Axle Trks	30,660	60.0%	1.77E+00
Total	51,100	100%	---

DPM Lbs/ Yr	JUR_IN	POP_NIN	POP_NOUT	SAN_OUT	SAN_IN	CAT_IN	Total
Gas Only	N	N	N	N	N	N	
Distance (m)	1242.2	362.6	364.4	1197.3	783.1	1921.7	5871.3
%	20%	40%	40%	20%	20%	60%	200%
2-Axle Trks	5.84E-02	3.41E-02	3.43E-02	5.63E-02	3.68E-02	2.71E-01	4.91E-01
3-Axle Trks	3.41E-02	1.99E-02	2.00E-02	3.29E-02	2.15E-02	1.58E-01	2.87E-01
4-Axle Trks	2.73E-01	1.60E-01	1.60E-01	2.64E-01	1.72E-01	1.27E+00	2.30E+00
Total	3.66E-01	2.14E-01	2.15E-01	3.53E-01	2.31E-01	1.70E+00	3.08E+00

Truck Idle

# of Idling Pts	0

Truck Idling						0						Total
Category	# of Trucks / Yr	Idle EF (lbs / Event)	Time (Hr)	Lbs/ Yr	Lbs / Yr /Unit	0	0	0	0	0	0	0
2-Axle Trks	8,760	6.06E-05	0.25	1.33E-01	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3-Axle Trks	11,680	9.32E-06	0.25	2.72E-02	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4-Axle Trks	30,660	7.59E-05	0.25	5.82E-01	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total	51,100	--	--	7.42E-01	#DIV/0!	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	#DIV/0!

TRUs

Percent of Trucks	0		# of Units	38

Onsite TRU Emissions					
Category	Percentage	# of TRUs / Yr	Time (Hr)	*DPM EF (lbs/Event)	Emissions (lb/Yr)
2-Axle Trks	15.5	0	0.25	2.09E-03	0.00
3-Axle Trks	4.9	0			0.00
4-Axle Trks	24.3	0			0.00
Total	45	0	Emission/Unit		0.00

* TRU EF * BHP * Load factor * Time in hours

Vehicle Emissions

Vehicle Travel Percentage / Count			
Category	# of Vehicles / Yr	% LDA	% LDT
Passenger Vehicles	199,655	72%	27.73%
# Vehicles		144,287	55,368

Category	TOG Exhaust EF (lb/Mile)	TOG Runloss EF (lb/Mile)
LDA	2.62E-05	4.68E-04
LDT	5.44E-05	1.10E-03

CARB TOG Speciation Profile Run Exhaust			Lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
75070	Acetaldehyde	2.80E-03	1.06E-02	8.43E-03
107028	Acrolein	1.30E-03	4.91E-03	3.91E-03
71432	Benzene	2.47E-02	9.32E-02	7.43E-02
106990	1,3-Butadiene	5.50E-03	2.08E-02	1.66E-02
100414	Ethylbenzene	1.05E-02	3.96E-02	3.16E-02
50000	Formaldehyde	1.58E-02	5.96E-02	4.76E-02
110543	Hexane	1.60E-02	6.04E-02	4.82E-02
67561	Methanol	1.20E-03	4.53E-03	3.61E-03
78933	Methyl Ethyl Ketone	2.00E-04	7.55E-04	6.02E-04
91203	Naphthalene	5.00E-04	1.89E-03	1.50E-03
115071	Propylene	3.06E-02	1.15E-01	9.21E-02
100425	Styrene	1.20E-03	4.53E-03	3.61E-03
108883	Toluene	5.76E-02	2.17E-01	1.73E-01
1330207	Xylenes	4.80E-02	1.81E-01	1.44E-01
9901	Diesel	6.00E-03	1.91E+00	7.33E-01

CARB TOG Speciation Profile Evaporative Losses			Lbs/mi/yr	
CAS#	Chemical Name	Fraction	LDA	LDT
71432	Benzene	3.600E-03	1.36E-02	1.08E-02
100414	Ethylbenzene	1.180E-03	4.45E-03	3.55E-03
110543	Hexane	1.540E-02	5.81E-02	4.63E-02
108883	Toluene	1.700E-02	6.42E-02	5.12E-02
1330207	Xylenes	5.780E-03	2.18E-02	1.74E-02

Vehicle Emissions Travel Summary

Emissions Summary				Source Col	1	2	3	4	5	6	7	8	9	10	11	12	Total Percentage	Total Distance
				Vehicles	0	0	0	0	0	0	JUR_IN	POP_NIN	POP_NOUT	SAN_OUT	SAN_IN	CAT_IN		
				Cars	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		
					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	21.16%	6.18%	6.21%	20.39%	13.34%	32.73%	100.00%	5871.3
				Trucks	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		
					0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
CAS#	Chemical Name	Lbs/mi/Hr	Lbs/mi/ Yr		Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr	Lbs/ Hr	Lbs/ Yr
75070	Acetaldehyde	6.33E-06	1.90E-02		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	8.04E-04	1.56E-07	4.69E-04	1.57E-07	4.72E-04	2.58E-07	7.75E-04	1.69E-07	5.07E-04	1.24E-06	3.73E-03	2.25E-06	6.76E-03
107028	Acrolein	2.94E-06	8.82E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-07	3.73E-04	7.26E-08	2.18E-04	7.30E-08	2.19E-04	1.20E-07	3.60E-04	7.84E-08	2.35E-04	5.77E-07	1.73E-03	1.05E-06	3.14E-03
71432	Benzene	6.40E-05	1.92E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-06	8.12E-03	1.58E-06	4.74E-03	1.59E-06	4.77E-03	2.61E-06	7.83E-03	1.71E-06	5.12E-03	1.26E-05	3.77E-02	2.28E-05	6.83E-02
106990	1,3-Butadiene	1.24E-05	3.73E-02		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-07	1.58E-03	3.07E-07	9.22E-04	3.09E-07	9.26E-04	5.07E-07	1.52E-03	3.32E-07	9.95E-04	2.44E-06	7.33E-03	4.42E-06	1.33E-02
100414	Ethylbenzene	2.64E-05	7.92E-02		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-06	3.35E-03	6.52E-07	1.96E-03	6.56E-07	1.97E-03	1.08E-06	3.23E-03	7.05E-07	2.11E-03	5.19E-06	1.56E-02	9.39E-06	2.82E-02
50000	Formaldehyde	3.57E-05	1.07E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-06	4.54E-03	8.83E-07	2.65E-03	8.87E-07	2.66E-03	1.46E-06	4.37E-03	9.53E-07	2.86E-03	7.02E-06	2.10E-02	1.27E-05	3.81E-02
110543	Hexane	7.10E-05	2.13E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-06	9.01E-03	1.75E-06	5.26E-03	1.76E-06	5.29E-03	2.90E-06	8.69E-03	1.89E-06	5.68E-03	1.39E-05	4.18E-02	2.53E-05	7.58E-02
67561	Methanol	2.71E-06	8.14E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-07	3.44E-04	6.70E-08	2.01E-04	6.74E-08	2.02E-04	1.11E-07	3.32E-04	7.24E-08	2.17E-04	5.33E-07	1.60E-03	9.65E-07	2.90E-03
78933	Methyl Ethyl Ketone	4.52E-07	1.36E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-08	5.74E-05	1.12E-08	3.35E-05	1.12E-08	3.37E-05	1.84E-08	5.53E-05	1.21E-08	3.62E-05	8.88E-08	2.66E-04	1.61E-07	4.83E-04
91203	Naphthalene	1.13E-06	3.39E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-08	1.44E-04	2.79E-08	8.38E-05	2.81E-08	8.42E-05	4.61E-08	1.38E-04	3.02E-08	9.05E-05	2.22E-07	6.66E-04	4.02E-07	1.21E-03
115071	Propylene	6.92E-05	2.08E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	8.78E-03	1.71E-06	5.13E-03	1.72E-06	5.15E-03	2.82E-06	8.47E-03	1.85E-06	5.54E-03	1.36E-05	4.08E-02	2.46E-05	7.38E-02
100425	Styrene	2.71E-06	8.14E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-07	3.44E-04	6.70E-08	2.01E-04	6.74E-08	2.02E-04	1.11E-07	3.32E-04	7.24E-08	2.17E-04	5.33E-07	1.60E-03	9.65E-07	2.90E-03
108883	Toluene	1.69E-04	5.06E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06	2.14E-02	4.17E-06	1.25E-02	4.19E-06	1.26E-02	6.88E-06	2.06E-02	4.50E-06	1.35E-02	3.31E-05	9.94E-02	6.00E-05	1.80E-01
1330207	Xylenes	1.22E-04	3.65E-01		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06	1.54E-02	3.00E-06	9.01E-03	3.02E-06	9.06E-03	4.96E-06	1.49E-02	3.24E-06	9.73E-03	2.39E-05	7.16E-02	4.33E-05	1.30E-01
9901	Diesel	8.81E-04	2.64E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	4.78E-01	2.18E-05	2.79E-01	2.19E-05	2.80E-01	3.59E-05	4.61E-01	2.35E-05	3.01E-01	1.73E-04	2.22E+00	3.13E-04	4.02E+00

	Model Source	Source Col		Dat Col		Col	Row	CAS#	Chemical Name	Pol Count	Source Count
1		0	1	8	1	8	98	75070	Acetaldehyde	15	19
2		0	2	10	2	10	99	107028	Acrolein		
3		0	3	12	3	12	100	71432	Benzene		
4		0	4	14	4	14	101	106990	1-3,Butadiene		
5		0	5	16	5	16	102	100414	Ethylbenzene		
6		0	6	18	6	18	103	50000	Formaldehyde		
7	JUR_IN		7	20	7	20	104	110543	Hexane		
8	POP_NIN		8	22	8	22	105	67561	Methanol		
9	POP_NOUT		9	24	9	24	106	78933	Methyl Ethyl Ketone		
10	SAN_OUT		10	26	10	26	107	91203	Naphthalene		
11	SAN_IN		11	28	11	28	108	115071	Propylene		
12	CAT_IN		12	30	12	30	109	100425	Styrene		
13		0	Idle1	8	13	8	110	108883	Toluene		
14		0	Idle1	9	14	8	111	1330207	Xylenes		
15		0	Idle1	10	15	8	112	9901	Diesel		
16		0	Idle1	11	16	8					
17		0	Idle1	12	17	8	37		Idle		
18		0	Idle1	13	18	7	47		TRU		
19	TRU		TRU	7	19						
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1	8	98	1	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
1	8	99	1	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
1	8	100	1	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
1	8	101	1	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
1	8	102	1	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
1	8	103	1	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
1	8	104	1	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
1	8	105	1	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
1	8	106	1	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
1	8	107	1	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
1	8	108	1	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
1	8	109	1	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
1	8	110	1	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
1	8	111	1	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
1	8	112	1	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
2	10	98	2	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
2	10	99	2	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
2	10	100	2	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
2	10	101	2	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
2	10	102	2	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
2	10	103	2	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
2	10	104	2	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
2	10	105	2	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
2	10	106	2	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
2	10	107	2	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
2	10	108	2	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
2	10	109	2	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
2	10	110	2	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
2	10	111	2	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
2	10	112	2	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
3	12	98	3	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
3	12	99	3	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
3	12	100	3	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
3	12	101	3	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
3	12	102	3	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
3	12	103	3	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
3	12	104	3	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
3	12	105	3	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
3	12	106	3	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
3	12	107	3	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
3	12	108	3	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
3	12	109	3	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
3	12	110	3	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
3	12	111	3	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
3	12	112	3	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
4	14	98	4	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
4	14	99	4	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
4	14	100	4	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
4	14	101	4	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
4	14	102	4	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
4	14	103	4	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
4	14	104	4	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
4	14	105	4	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
4	14	106	4	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
4	14	107	4	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
4	14	108	4	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
4	14	109	4	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
4	14	110	4	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
4	14	111	4	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
4	14	112	4	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
5	16	98	5	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
5	16	99	5	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
5	16	100	5	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
5	16	101	5	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
5	16	102	5	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
5	16	103	5	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
5	16	104	5	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
5	16	105	5	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
5	16	106	5	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
5	16	107	5	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
5	16	108	5	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
5	16	109	5	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
5	16	110	5	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
5	16	111	5	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
5	16	112	5	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
6	18	98	6	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
6	18	99	6	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
6	18	100	6	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
6	18	101	6	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
6	18	102	6	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
6	18	103	6	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
6	18	104	6	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
6	18	105	6	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
6	18	106	6	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
6	18	107	6	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
6	18	108	6	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
6	18	109	6	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
6	18	110	6	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
6	18	111	6	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
6	18	112	6	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
7	20	98	7	1	JUR_IN	0	0	75070	Acetaldehyde	1	8.04E-04	2.68E-07	1
7	20	99	7	2	JUR_IN	0	0	107028	Acrolein	1	3.73E-04	1.24E-07	1
7	20	100	7	3	JUR_IN	0	0	71432	Benzene	1	8.12E-03	2.71E-06	1
7	20	101	7	4	JUR_IN	0	0	106990	1-3,Butadiene	1	1.58E-03	5.26E-07	1
7	20	102	7	5	JUR_IN	0	0	100414	Ethylbenzene	1	3.35E-03	1.12E-06	1
7	20	103	7	6	JUR_IN	0	0	50000	Formaldehyde	1	4.54E-03	1.51E-06	1
7	20	104	7	7	JUR_IN	0	0	110543	Hexane	1	9.01E-03	3.00E-06	1
7	20	105	7	8	JUR_IN	0	0	67561	Methanol	1	3.44E-04	1.15E-07	1
7	20	106	7	9	JUR_IN	0	0	78933	Methyl Ethyl Ketone	1	5.74E-05	1.91E-08	1
7	20	107	7	10	JUR_IN	0	0	91203	Naphthalene	1	1.44E-04	4.78E-08	1
7	20	108	7	11	JUR_IN	0	0	115071	Propylene	1	8.78E-03	2.93E-06	1
7	20	109	7	12	JUR_IN	0	0	100425	Styrene	1	3.44E-04	1.15E-07	1
7	20	110	7	13	JUR_IN	0	0	108883	Toluene	1	2.14E-02	7.14E-06	1
7	20	111	7	14	JUR_IN	0	0	1330207	Xylenes	1	1.54E-02	5.15E-06	1
7	20	112	7	15	JUR_IN	0	0	9901	Diesel	1	4.78E-01	3.73E-05	1
8	22	98	8	1	POP_NIN	0	0	75070	Acetaldehyde	1	4.69E-04	1.56E-07	1
8	22	99	8	2	POP_NIN	0	0	107028	Acrolein	1	2.18E-04	7.26E-08	1
8	22	100	8	3	POP_NIN	0	0	71432	Benzene	1	4.74E-03	1.58E-06	1
8	22	101	8	4	POP_NIN	0	0	106990	1-3,Butadiene	1	9.22E-04	3.07E-07	1
8	22	102	8	5	POP_NIN	0	0	100414	Ethylbenzene	1	1.96E-03	6.52E-07	1
8	22	103	8	6	POP_NIN	0	0	50000	Formaldehyde	1	2.65E-03	8.83E-07	1
8	22	104	8	7	POP_NIN	0	0	110543	Hexane	1	5.26E-03	1.75E-06	1
8	22	105	8	8	POP_NIN	0	0	67561	Methanol	1	2.01E-04	6.70E-08	1
8	22	106	8	9	POP_NIN	0	0	78933	Methyl Ethyl Ketone	1	3.35E-05	1.12E-08	1
8	22	107	8	10	POP_NIN	0	0	91203	Naphthalene	1	8.38E-05	2.79E-08	1
8	22	108	8	11	POP_NIN	0	0	115071	Propylene	1	5.13E-03	1.71E-06	1
8	22	109	8	12	POP_NIN	0	0	100425	Styrene	1	2.01E-04	6.70E-08	1
8	22	110	8	13	POP_NIN	0	0	108883	Toluene	1	1.25E-02	4.17E-06	1
8	22	111	8	14	POP_NIN	0	0	1330207	Xylenes	1	9.01E-03	3.00E-06	1
8	22	112	8	15	POP_NIN	0	0	9901	Diesel	1	2.79E-01	2.18E-05	1
9	24	98	9	1	POP_NOUT	0	0	75070	Acetaldehyde	1	4.72E-04	1.57E-07	1
9	24	99	9	2	POP_NOUT	0	0	107028	Acrolein	1	2.19E-04	7.30E-08	1
9	24	100	9	3	POP_NOUT	0	0	71432	Benzene	1	4.77E-03	1.59E-06	1
9	24	101	9	4	POP_NOUT	0	0	106990	1-3,Butadiene	1	9.26E-04	3.09E-07	1
9	24	102	9	5	POP_NOUT	0	0	100414	Ethylbenzene	1	1.97E-03	6.56E-07	1
9	24	103	9	6	POP_NOUT	0	0	50000	Formaldehyde	1	2.66E-03	8.87E-07	1
9	24	104	9	7	POP_NOUT	0	0	110543	Hexane	1	5.29E-03	1.76E-06	1
9	24	105	9	8	POP_NOUT	0	0	67561	Methanol	1	2.02E-04	6.74E-08	1
9	24	106	9	9	POP_NOUT	0	0	78933	Methyl Ethyl Ketone	1	3.37E-05	1.12E-08	1
9	24	107	9	10	POP_NOUT	0	0	91203	Naphthalene	1	8.42E-05	2.81E-08	1
9	24	108	9	11	POP_NOUT	0	0	115071	Propylene	1	5.15E-03	1.72E-06	1
9	24	109	9	12	POP_NOUT	0	0	100425	Styrene	1	2.02E-04	6.74E-08	1
9	24	110	9	13	POP_NOUT	0	0	108883	Toluene	1	1.26E-02	4.19E-06	1
9	24	111	9	14	POP_NOUT	0	0	1330207	Xylenes	1	9.06E-03	3.02E-06	1
9	24	112	9	15	POP_NOUT	0	0	9901	Diesel	1	2.80E-01	2.19E-05	1
10	26	98	10	1	SAN_OUT	0	0	75070	Acetaldehyde	1	7.75E-04	2.58E-07	1
10	26	99	10	2	SAN_OUT	0	0	107028	Acrolein	1	3.60E-04	1.20E-07	1
10	26	100	10	3	SAN_OUT	0	0	71432	Benzene	1	7.83E-03	2.61E-06	1
10	26	101	10	4	SAN_OUT	0	0	106990	1-3,Butadiene	1	1.52E-03	5.07E-07	1
10	26	102	10	5	SAN_OUT	0	0	100414	Ethylbenzene	1	3.23E-03	1.08E-06	1
10	26	103	10	6	SAN_OUT	0	0	50000	Formaldehyde	1	4.37E-03	1.46E-06	1
10	26	104	10	7	SAN_OUT	0	0	110543	Hexane	1	8.69E-03	2.90E-06	1
10	26	105	10	8	SAN_OUT	0	0	67561	Methanol	1	3.32E-04	1.11E-07	1
10	26	106	10	9	SAN_OUT	0	0	78933	Methyl Ethyl Ketone	1	5.53E-05	1.84E-08	1
10	26	107	10	10	SAN_OUT	0	0	91203	Naphthalene	1	1.38E-04	4.61E-08	1
10	26	108	10	11	SAN_OUT	0	0	115071	Propylene	1	8.47E-03	2.82E-06	1

10	26	109	10	12	SAN_OUT	0	0	100425	Styrene	1	3.32E-04	1.11E-07	1
10	26	110	10	13	SAN_OUT	0	0	108883	Toluene	1	2.06E-02	6.88E-06	1
10	26	111	10	14	SAN_OUT	0	0	1330207	Xylenes	1	1.49E-02	4.96E-06	1
10	26	112	10	15	SAN_OUT	0	0	9901	Diesel	1	4.61E-01	3.59E-05	1
11	28	98	11	1	SAN_IN	0	0	75070	Acetaldehyde	1	5.07E-04	1.69E-07	1
11	28	99	11	2	SAN_IN	0	0	107028	Acrolein	1	2.35E-04	7.84E-08	1
11	28	100	11	3	SAN_IN	0	0	71432	Benzene	1	5.12E-03	1.71E-06	1
11	28	101	11	4	SAN_IN	0	0	106990	1-3,Butadiene	1	9.95E-04	3.32E-07	1
11	28	102	11	5	SAN_IN	0	0	100414	Ethylbenzene	1	2.11E-03	7.05E-07	1
11	28	103	11	6	SAN_IN	0	0	50000	Formaldehyde	1	2.86E-03	9.53E-07	1
11	28	104	11	7	SAN_IN	0	0	110543	Hexane	1	5.68E-03	1.89E-06	1
11	28	105	11	8	SAN_IN	0	0	67561	Methanol	1	2.17E-04	7.24E-08	1
11	28	106	11	9	SAN_IN	0	0	78933	Methyl Ethyl Ketone	1	3.62E-05	1.21E-08	1
11	28	107	11	10	SAN_IN	0	0	91203	Naphthalene	1	9.05E-05	3.02E-08	1
11	28	108	11	11	SAN_IN	0	0	115071	Propylene	1	5.54E-03	1.85E-06	1
11	28	109	11	12	SAN_IN	0	0	100425	Styrene	1	2.17E-04	7.24E-08	1
11	28	110	11	13	SAN_IN	0	0	108883	Toluene	1	1.35E-02	4.50E-06	1
11	28	111	11	14	SAN_IN	0	0	1330207	Xylenes	1	9.73E-03	3.24E-06	1
11	28	112	11	15	SAN_IN	0	0	9901	Diesel	1	3.01E-01	2.35E-05	1
12	30	98	12	1	CAT_IN	0	0	75070	Acetaldehyde	1	3.73E-03	1.24E-06	1
12	30	99	12	2	CAT_IN	0	0	107028	Acrolein	1	1.73E-03	5.77E-07	1
12	30	100	12	3	CAT_IN	0	0	71432	Benzene	1	3.77E-02	1.26E-05	1
12	30	101	12	4	CAT_IN	0	0	106990	1-3,Butadiene	1	7.33E-03	2.44E-06	1
12	30	102	12	5	CAT_IN	0	0	100414	Ethylbenzene	1	1.56E-02	5.19E-06	1
12	30	103	12	6	CAT_IN	0	0	50000	Formaldehyde	1	2.10E-02	7.02E-06	1
12	30	104	12	7	CAT_IN	0	0	110543	Hexane	1	4.18E-02	1.39E-05	1
12	30	105	12	8	CAT_IN	0	0	67561	Methanol	1	1.60E-03	5.33E-07	1
12	30	106	12	9	CAT_IN	0	0	78933	Methyl Ethyl Ketone	1	2.66E-04	8.88E-08	1
12	30	107	12	10	CAT_IN	0	0	91203	Naphthalene	1	6.66E-04	2.22E-07	1
12	30	108	12	11	CAT_IN	0	0	115071	Propylene	1	4.08E-02	1.36E-05	1
12	30	109	12	12	CAT_IN	0	0	100425	Styrene	1	1.60E-03	5.33E-07	1
12	30	110	12	13	CAT_IN	0	0	108883	Toluene	1	9.94E-02	3.31E-05	1
12	30	111	12	14	CAT_IN	0	0	1330207	Xylenes	1	7.16E-02	2.39E-05	1
12	30	112	12	15	CAT_IN	0	0	9901	Diesel	1	2.22E+00	1.73E-04	1
Idle	8	98	13	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	8	99	13	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	8	100	13	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	8	101	13	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	8	102	13	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	8	103	13	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	8	104	13	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	8	105	13	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	8	106	13	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	8	107	13	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	8	108	13	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	8	109	13	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	8	110	13	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	8	111	13	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	8	37	13	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	9	98	14	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	9	99	14	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	9	100	14	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	9	101	14	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	9	102	14	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	9	103	14	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	9	104	14	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	9	105	14	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	9	106	14	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	9	107	14	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	9	108	14	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	9	109	14	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	9	110	14	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	9	111	14	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	9	37	14	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	10	98	15	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	10	99	15	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	10	100	15	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	10	101	15	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	10	102	15	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	10	103	15	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	10	104	15	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	10	105	15	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	10	106	15	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	10	107	15	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	10	108	15	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	10	109	15	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	10	110	15	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	10	111	15	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	10	37	15	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	11	98	16	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	11	99	16	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	11	100	16	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	11	101	16	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	11	102	16	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	11	103	16	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	11	104	16	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	11	105	16	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	11	106	16	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	11	107	16	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	11	108	16	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	11	109	16	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	11	110	16	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	11	111	16	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	11	37	16	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	12	98	17	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	12	99	17	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	12	100	17	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	12	101	17	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	12	102	17	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	12	103	17	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	12	104	17	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	12	105	17	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	12	106	17	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	12	107	17	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	12	108	17	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	12	109	17	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	12	110	17	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	12	111	17	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	12	37	17	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
Idle	13	98	18	1	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	13	99	18	2	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	13	100	18	3	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	13	101	18	4	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	13	102	18	5	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	13	103	18	6	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	13	104	18	7	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	13	105	18	8	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	13	106	18	9	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	13	107	18	10	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	13	108	18	11	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
Idle	13	109	18	12	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle	13	110	18	13	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle	13	111	18	14	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle	13	37	18	15	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
TRU	7	98	19	1	TRU	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
TRU	7	99	19	2	TRU	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
TRU	7	100	19	3	TRU	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
TRU	7	101	19	4	TRU	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
TRU	7	102	19	5	TRU	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
TRU	7	103	19	6	TRU	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
TRU	7	104	19	7	TRU	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
TRU	7	105	19	8	TRU	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
TRU	7	106	19	9	TRU	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
TRU	7	107	19	10	TRU	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
TRU	7	108	19	11	TRU	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
TRU	7	109	19	12	TRU	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
TRU	7	110	19	13	TRU	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
TRU	7	111	19	14	TRU	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
TRU	7	47	19	15	TRU	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1

TRK_OUT1	0	0	75070	Acetaldehyde	1	3.24E-04	1.08E-07	1
TRK_OUT1	0	0	107028	Acrolein	1	1.51E-04	5.02E-08	1
TRK_OUT1	0	0	71432	Benzene	1	3.28E-03	1.09E-06	1
TRK_OUT1	0	0	106990	1-3,Butadiene	1	6.37E-04	2.12E-07	1
TRK_OUT1	0	0	100414	Ethylbenzene	1	1.35E-03	4.51E-07	1
TRK_OUT1	0	0	50000	Formaldehyde	1	1.83E-03	6.10E-07	1
TRK_OUT1	0	0	110543	Hexane	1	3.64E-03	1.21E-06	1
TRK_OUT1	0	0	67561	Methanol	1	1.39E-04	4.64E-08	1
TRK_OUT1	0	0	78933	Methyl Ethyl Ketone	1	2.32E-05	7.73E-09	1
TRK_OUT1	0	0	91203	Naphthalene	1	5.79E-05	1.93E-08	1
TRK_OUT1	0	0	115071	Propylene	1	3.55E-03	1.18E-06	1
TRK_OUT1	0	0	100425	Styrene	1	1.39E-04	4.64E-08	1
TRK_OUT1	0	0	108883	Toluene	1	8.65E-03	2.88E-06	1
TRK_OUT1	0	0	1330207	Xylenes	1	6.23E-03	2.08E-06	1
TRK_OUT1	0	0	9901	Diesel	1	3.60E-01	1.50E-05	1
TRK_OUT2	0	0	75070	Acetaldehyde	1	3.34E-04	1.11E-07	1
TRK_OUT2	0	0	107028	Acrolein	1	1.55E-04	5.17E-08	1
TRK_OUT2	0	0	71432	Benzene	1	3.38E-03	1.13E-06	1
TRK_OUT2	0	0	106990	1-3,Butadiene	1	6.56E-04	2.19E-07	1
TRK_OUT2	0	0	100414	Ethylbenzene	1	1.39E-03	4.64E-07	1
TRK_OUT2	0	0	50000	Formaldehyde	1	1.88E-03	6.28E-07	1
TRK_OUT2	0	0	110543	Hexane	1	3.74E-03	1.25E-06	1
TRK_OUT2	0	0	67561	Methanol	1	1.43E-04	4.77E-08	1
TRK_OUT2	0	0	78933	Methyl Ethyl Ketone	1	2.39E-05	7.95E-09	1
TRK_OUT2	0	0	91203	Naphthalene	1	5.96E-05	1.99E-08	1
TRK_OUT2	0	0	115071	Propylene	1	3.65E-03	1.22E-06	1
TRK_OUT2	0	0	100425	Styrene	1	1.43E-04	4.77E-08	1
TRK_OUT2	0	0	108883	Toluene	1	8.90E-03	2.97E-06	1
TRK_OUT2	0	0	1330207	Xylenes	1	6.41E-03	2.14E-06	1
TRK_OUT2	0	0	9901	Diesel	1	3.71E-01	1.55E-05	1
TRK_IN2	0	0	75070	Acetaldehyde	1	3.33E-04	1.11E-07	1
TRK_IN2	0	0	107028	Acrolein	1	1.55E-04	5.16E-08	1
TRK_IN2	0	0	71432	Benzene	1	3.37E-03	1.12E-06	1
TRK_IN2	0	0	106990	1-3,Butadiene	1	6.55E-04	2.18E-07	1
TRK_IN2	0	0	100414	Ethylbenzene	1	1.39E-03	4.64E-07	1
TRK_IN2	0	0	50000	Formaldehyde	1	1.88E-03	6.27E-07	1
TRK_IN2	0	0	110543	Hexane	1	3.74E-03	1.25E-06	1
TRK_IN2	0	0	67561	Methanol	1	1.43E-04	4.76E-08	1
TRK_IN2	0	0	78933	Methyl Ethyl Ketone	1	2.38E-05	7.94E-09	1
TRK_IN2	0	0	91203	Naphthalene	1	5.95E-05	1.98E-08	1
TRK_IN2	0	0	115071	Propylene	1	3.64E-03	1.21E-06	1
TRK_IN2	0	0	100425	Styrene	1	1.43E-04	4.76E-08	1
TRK_IN2	0	0	108883	Toluene	1	8.88E-03	2.96E-06	1
TRK_IN2	0	0	1330207	Xylenes	1	6.40E-03	2.13E-06	1
TRK_IN2	0	0	9901	Diesel	1	3.70E-01	1.55E-05	1
TRK_IN1	0	0	75070	Acetaldehyde	1	3.23E-04	1.08E-07	1
TRK_IN1	0	0	107028	Acrolein	1	1.50E-04	4.99E-08	1

TRK_IN1		0	0	71432	Benzene	1	3.26E-03	1.09E-06	1
TRK_IN1		0	0	106990	1-3,Butadiene	1	6.34E-04	2.11E-07	1
TRK_IN1		0	0	100414	Ethylbenzene	1	1.35E-03	4.49E-07	1
TRK_IN1		0	0	50000	Formaldehyde	1	1.82E-03	6.07E-07	1
TRK_IN1		0	0	110543	Hexane	1	3.62E-03	1.21E-06	1
TRK_IN1		0	0	67561	Methanol	1	1.38E-04	4.61E-08	1
TRK_IN1		0	0	78933	Methyl Ethyl Ketone	1	2.30E-05	7.68E-09	1
TRK_IN1		0	0	91203	Naphthalene	1	5.76E-05	1.92E-08	1
TRK_IN1		0	0	115071	Propylene	1	3.53E-03	1.18E-06	1
TRK_IN1		0	0	100425	Styrene	1	1.38E-04	4.61E-08	1
TRK_IN1		0	0	108883	Toluene	1	8.60E-03	2.87E-06	1
TRK_IN1		0	0	1330207	Xylenes	1	6.20E-03	2.07E-06	1
TRK_IN1		0	0	9901	Diesel	1	3.58E-01	1.50E-05	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
CAR_IN1		0	0	75070	Acetaldehyde	1	2.12E-03	7.06E-07	1
CAR_IN1		0	0	107028	Acrolein	1	9.84E-04	3.28E-07	1
CAR_IN1		0	0	71432	Benzene	1	2.14E-02	7.14E-06	1
CAR_IN1		0	0	106990	1-3,Butadiene	1	4.16E-03	1.39E-06	1
CAR_IN1		0	0	100414	Ethylbenzene	1	8.84E-03	2.95E-06	1

CAR_IN1	0	0	50000	Formaldehyde	1	1.20E-02	3.98E-06	1
CAR_IN1	0	0	110543	Hexane	1	2.38E-02	7.92E-06	1
CAR_IN1	0	0	67561	Methanol	1	9.08E-04	3.03E-07	1
CAR_IN1	0	0	78933	Methyl Ethyl Ketone	1	1.51E-04	5.04E-08	1
CAR_IN1	0	0	91203	Naphthalene	1	3.78E-04	1.26E-07	1
CAR_IN1	0	0	115071	Propylene	1	2.32E-02	7.72E-06	1
CAR_IN1	0	0	100425	Styrene	1	9.08E-04	3.03E-07	1
CAR_IN1	0	0	108883	Toluene	1	5.64E-02	1.88E-05	1
CAR_IN1	0	0	1330207	Xylenes	1	4.07E-02	1.36E-05	1
CAR_IN1	0	0	9901	Diesel	1	6.61E-01	9.82E-05	1
CAR_OUT1	0	0	75070	Acetaldehyde	1	1.79E-03	5.95E-07	1
CAR_OUT1	0	0	107028	Acrolein	1	8.29E-04	2.76E-07	1
CAR_OUT1	0	0	71432	Benzene	1	1.80E-02	6.02E-06	1
CAR_OUT1	0	0	106990	1-3,Butadiene	1	3.51E-03	1.17E-06	1
CAR_OUT1	0	0	100414	Ethylbenzene	1	7.45E-03	2.48E-06	1
CAR_OUT1	0	0	50000	Formaldehyde	1	1.01E-02	3.36E-06	1
CAR_OUT1	0	0	110543	Hexane	1	2.00E-02	6.68E-06	1
CAR_OUT1	0	0	67561	Methanol	1	7.65E-04	2.55E-07	1
CAR_OUT1	0	0	78933	Methyl Ethyl Ketone	1	1.28E-04	4.25E-08	1
CAR_OUT1	0	0	91203	Naphthalene	1	3.19E-04	1.06E-07	1
CAR_OUT1	0	0	115071	Propylene	1	1.95E-02	6.51E-06	1
CAR_OUT1	0	0	100425	Styrene	1	7.65E-04	2.55E-07	1
CAR_OUT1	0	0	108883	Toluene	1	4.76E-02	1.59E-05	1
CAR_OUT1	0	0	1330207	Xylenes	1	3.43E-02	1.14E-05	1
CAR_OUT1	0	0	9901	Diesel	1	4.62E-01	8.28E-05	1
CAT_SOUT	0	0	75070	Acetaldehyde	1	7.55E-04	2.52E-07	1
CAT_SOUT	0	0	107028	Acrolein	1	3.50E-04	1.17E-07	1
CAT_SOUT	0	0	71432	Benzene	1	7.63E-03	2.54E-06	1
CAT_SOUT	0	0	106990	1-3,Butadiene	1	1.48E-03	4.94E-07	1
CAT_SOUT	0	0	100414	Ethylbenzene	1	3.15E-03	1.05E-06	1
CAT_SOUT	0	0	50000	Formaldehyde	1	4.26E-03	1.42E-06	1
CAT_SOUT	0	0	110543	Hexane	1	8.46E-03	2.82E-06	1
CAT_SOUT	0	0	67561	Methanol	1	3.23E-04	1.08E-07	1
CAT_SOUT	0	0	78933	Methyl Ethyl Ketone	1	5.39E-05	1.80E-08	1
CAT_SOUT	0	0	91203	Naphthalene	1	1.35E-04	4.49E-08	1
CAT_SOUT	0	0	115071	Propylene	1	8.25E-03	2.75E-06	1
CAT_SOUT	0	0	100425	Styrene	1	3.23E-04	1.08E-07	1
CAT_SOUT	0	0	108883	Toluene	1	2.01E-02	6.70E-06	1
CAT_SOUT	0	0	1330207	Xylenes	1	1.45E-02	4.83E-06	1
CAT_SOUT	0	0	9901	Diesel	1	4.41E-01	3.50E-05	1
POP_SOUT	0	0	75070	Acetaldehyde	1	9.32E-04	3.11E-07	1
POP_SOUT	0	0	107028	Acrolein	1	4.33E-04	1.44E-07	1
POP_SOUT	0	0	71432	Benzene	1	9.42E-03	3.14E-06	1
POP_SOUT	0	0	106990	1-3,Butadiene	1	1.83E-03	6.10E-07	1
POP_SOUT	0	0	100414	Ethylbenzene	1	3.89E-03	1.30E-06	1
POP_SOUT	0	0	50000	Formaldehyde	1	5.26E-03	1.75E-06	1
POP_SOUT	0	0	110543	Hexane	1	1.04E-02	3.48E-06	1
POP_SOUT	0	0	67561	Methanol	1	3.99E-04	1.33E-07	1

POP_SOUT	0	0	78933	Methyl Ethyl Ketone	1	6.65E-05	2.22E-08	1
POP_SOUT	0	0	91203	Naphthalene	1	1.66E-04	5.55E-08	1
POP_SOUT	0	0	115071	Propylene	1	1.02E-02	3.39E-06	1
POP_SOUT	0	0	100425	Styrene	1	3.99E-04	1.33E-07	1
POP_SOUT	0	0	108883	Toluene	1	2.48E-02	8.27E-06	1
POP_SOUT	0	0	1330207	Xylenes	1	1.79E-02	5.96E-06	1
POP_SOUT	0	0	9901	Diesel	1	5.50E-01	4.32E-05	1
JUR_OUT	0	0	75070	Acetaldehyde	1	1.05E-03	3.49E-07	1
JUR_OUT	0	0	107028	Acrolein	1	4.86E-04	1.62E-07	1
JUR_OUT	0	0	71432	Benzene	1	1.06E-02	3.53E-06	1
JUR_OUT	0	0	106990	1-3,Butadiene	1	2.06E-03	6.85E-07	1
JUR_OUT	0	0	100414	Ethylbenzene	1	4.37E-03	1.46E-06	1
JUR_OUT	0	0	50000	Formaldehyde	1	5.91E-03	1.97E-06	1
JUR_OUT	0	0	110543	Hexane	1	1.17E-02	3.91E-06	1
JUR_OUT	0	0	67561	Methanol	1	4.49E-04	1.50E-07	1
JUR_OUT	0	0	78933	Methyl Ethyl Ketone	1	7.48E-05	2.49E-08	1
JUR_OUT	0	0	91203	Naphthalene	1	1.87E-04	6.23E-08	1
JUR_OUT	0	0	115071	Propylene	1	1.14E-02	3.81E-06	1
JUR_OUT	0	0	100425	Styrene	1	4.49E-04	1.50E-07	1
JUR_OUT	0	0	108883	Toluene	1	2.79E-02	9.29E-06	1
JUR_OUT	0	0	1330207	Xylenes	1	2.01E-02	6.70E-06	1
JUR_OUT	0	0	9901	Diesel	1	6.08E-01	4.85E-05	1
CIT_OUT	0	0	75070	Acetaldehyde	1	7.71E-03	2.57E-06	1
CIT_OUT	0	0	107028	Acrolein	1	3.58E-03	1.19E-06	1
CIT_OUT	0	0	71432	Benzene	1	7.79E-02	2.60E-05	1
CIT_OUT	0	0	106990	1-3,Butadiene	1	1.51E-02	5.05E-06	1
CIT_OUT	0	0	100414	Ethylbenzene	1	3.22E-02	1.07E-05	1
CIT_OUT	0	0	50000	Formaldehyde	1	4.35E-02	1.45E-05	1
CIT_OUT	0	0	110543	Hexane	1	8.65E-02	2.88E-05	1
CIT_OUT	0	0	67561	Methanol	1	3.31E-03	1.10E-06	1
CIT_OUT	0	0	78933	Methyl Ethyl Ketone	1	5.51E-04	1.84E-07	1
CIT_OUT	0	0	91203	Naphthalene	1	1.38E-03	4.59E-07	1
CIT_OUT	0	0	115071	Propylene	1	8.43E-02	2.81E-05	1
CIT_OUT	0	0	100425	Styrene	1	3.31E-03	1.10E-06	1
CIT_OUT	0	0	108883	Toluene	1	2.05E-01	6.85E-05	1
CIT_OUT	0	0	1330207	Xylenes	1	1.48E-01	4.94E-05	1
CIT_OUT	0	0	9901	Diesel	1	4.48E+00	3.58E-04	1
Idle	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
Idle	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
Idle	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
Idle	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
Idle	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
Idle	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
Idle	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
Idle	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
Idle	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
Idle	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
Idle	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1

Idle		0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
Idle		0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
Idle		0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
Idle		0	0	9901	Diesel	1	2.97E-02	2.97E-02	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1

	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
	0	0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
	0	0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
	0	0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
	0	0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
	0	0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
	0	0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
	0	0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
	0	0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
	0	0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
	0	0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
	0	0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
	0	0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
	0	0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
	0	0	0	9901	Diesel	1	0.00E+00	0.00E+00	1
TRU		0	0	75070	Acetaldehyde	1	0.00E+00	0.00E+00	1
TRU		0	0	107028	Acrolein	1	0.00E+00	0.00E+00	1
TRU		0	0	71432	Benzene	1	0.00E+00	0.00E+00	1
TRU		0	0	106990	1-3,Butadiene	1	0.00E+00	0.00E+00	1
TRU		0	0	100414	Ethylbenzene	1	0.00E+00	0.00E+00	1
TRU		0	0	50000	Formaldehyde	1	0.00E+00	0.00E+00	1
TRU		0	0	110543	Hexane	1	0.00E+00	0.00E+00	1
TRU		0	0	67561	Methanol	1	0.00E+00	0.00E+00	1
TRU		0	0	78933	Methyl Ethyl Ketone	1	0.00E+00	0.00E+00	1
TRU		0	0	91203	Naphthalene	1	0.00E+00	0.00E+00	1
TRU		0	0	115071	Propylene	1	0.00E+00	0.00E+00	1
TRU		0	0	100425	Styrene	1	0.00E+00	0.00E+00	1
TRU		0	0	108883	Toluene	1	0.00E+00	0.00E+00	1
TRU		0	0	1330207	Xylenes	1	0.00E+00	0.00E+00	1
TRU		0	0	9901	Diesel	1	0.00E+00	0.00E+00	1

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	PM2.5_RUNEX	PM10_RUNEX
SAN BERNARDINO	2023	HHDT	Aggregate	5	Diesel	0.014028874	0.014663197
SAN BERNARDINO	2023	HHDT	Aggregate	10	Diesel	0.012109774	0.012657324
SAN BERNARDINO	2023	HHDT	Aggregate	15	Diesel	0.008910643	0.009313543
					Average	0.011683097	0.012211355
SAN BERNARDINO	2023	LDT1	Aggregate	5	Diesel	0.584913512	0.611360706
SAN BERNARDINO	2023	LDT1	Aggregate	10	Diesel	0.39924752	0.417299722
SAN BERNARDINO	2023	LDT1	Aggregate	15	Diesel	0.293493621	0.3067641
SAN BERNARDINO	2023	LDT2	Aggregate	5	Diesel	0.013055403	0.01364571
SAN BERNARDINO	2023	LDT2	Aggregate	10	Diesel	0.010841208	0.011331399
SAN BERNARDINO	2023	LDT2	Aggregate	15	Diesel	0.008968263	0.009373768
					Average	0.218419921	0.228295901
SAN BERNARDINO	2023	MHDT	Aggregate	5	Diesel	0.005626491	0.005880896
SAN BERNARDINO	2023	MHDT	Aggregate	10	Diesel	0.004887406	0.005108393
SAN BERNARDINO	2023	MHDT	Aggregate	15	Diesel	0.003765885	0.003936162
					Average	0.004759927	0.00497515

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: County
Region: San Bernardino
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	VMT	NOx_RUNEX	PM2.5_RUNEX	PM10_RUNEX	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	SOx_RUNEX
SAN BERNA	2023	HHDT	Aggregate	5	Diesel	10962.73	15.58319356	0.014028874	0.014663197	3945.48417	0.005869169	0.620175167	0.126361598	0.143853061	2.096749468	0.037274978
SAN BERNA	2023	HHDT	Aggregate	10	Diesel	31907.22	11.63374792	0.012109774	0.012657324	3183.724516	0.003774878	0.500437158	0.081272091	0.092522089	1.266721201	0.030078251
SAN BERNA	2023	HHDT	Aggregate	15	Diesel	38469.85	7.6805032	0.008910643	0.009313543	2349.944075	0.002163737	0.369378484	0.046584664	0.053033093	0.715124318	0.022201106
SAN BERNA	2023	LDA	Aggregate	5	Diesel	213.3955	0.127702505	0.017290385	0.01807218	494.155722	0.00784305	0.077674398	0.168856245	0.192231609	3.180004098	0.004671549
SAN BERNA	2023	LDA	Aggregate	10	Diesel	1538.874	0.107341871	0.012416199	0.012977604	409.853474	0.005736534	0.064423259	0.123504196	0.140601316	2.358163767	0.003874589
SAN BERNA	2023	LDA	Aggregate	15	Diesel	3402.957	0.081190748	0.010111608	0.01056881	337.6854698	0.002936237	0.053079453	0.063215465	0.071966604	1.168884722	0.003192342
SAN BERNA	2023	LDT1	Aggregate	5	Diesel	0.513136	0.801237623	0.584913512	0.611360706	1015.99024	0.039947374	0.159699517	0.860043452	0.979102291	3.977162331	0.009604761
SAN BERNA	2023	LDT1	Aggregate	10	Diesel	3.823277	0.841770466	0.39924752	0.417299722	861.205117	0.027603732	0.135369451	0.594292102	0.676562047	2.844567407	0.008141485
SAN BERNA	2023	LDT1	Aggregate	15	Diesel	8.349142	0.86584722	0.293493621	0.3067641	712.1966112	0.019589134	0.111947389	0.421742519	0.480125819	2.005608411	0.006732819
SAN BERNA	2023	LDT2	Aggregate	5	Diesel	45.77177	0.154873354	0.013055403	0.01364571	656.5415677	0.011975961	0.103199192	0.257835389	0.293528448	2.269980944	0.006206679
SAN BERNA	2023	LDT2	Aggregate	10	Diesel	328.2207	0.130260872	0.010841208	0.011331399	551.2165136	0.008931665	0.08664356	0.192293497	0.218913362	1.690947953	0.005210978
SAN BERNA	2023	LDT2	Aggregate	15	Diesel	727.396	0.090620848	0.008968263	0.009373768	457.5134503	0.004422341	0.071914743	0.095210397	0.108390707	0.832567746	0.004325147
SAN BERNA	2023	LHDT1	Aggregate	5	Diesel	179.1461	1.761944468	0.063811536	0.06669681	1205.241509	0.035279404	0.189447181	0.759544791	0.864691246	3.130412435	0.011393867
SAN BERNA	2023	LHDT1	Aggregate	10	Diesel	2750.433	1.733211292	0.046535303	0.048639423	1011.266069	0.02572693	0.158956943	0.553885656	0.630561995	2.289112739	0.009560101
SAN BERNA	2023	LHDT1	Aggregate	15	Diesel	6174.732	1.726324901	0.035805252	0.037424206	660.6931863	0.014465397	0.103851768	0.311431477	0.354544032	1.317257607	0.006245927
SAN BERNA	2023	LHDT2	Aggregate	5	Diesel	67.9448	1.533230098	0.059751687	0.062453394	1271.752779	0.035057371	0.199901827	0.754764561	0.859249272	3.164544245	0.012022637
SAN BERNA	2023	LHDT2	Aggregate	10	Diesel	1044.005	1.494699417	0.045139213	0.047180208	1128.234264	0.025695046	0.177342715	0.553199206	0.629780517	2.322255022	0.010665871
SAN BERNA	2023	LHDT2	Aggregate	15	Diesel	2343.414	1.457533887	0.035308533	0.036905028	751.2993985	0.014085703	0.118093803	0.303256885	0.345237801	1.296424901	0.007102481
SAN BERNA	2023	MHDT	Aggregate	5	Diesel	465.9241	6.479863068	0.005626491	0.005880896	2326.151237	0.002634636	0.365638581	0.056722993	0.064574809	0.773244038	0.021976323
SAN BERNA	2023	MHDT	Aggregate	10	Diesel	8601.705	4.927934801	0.004887406	0.005108393	1924.833285	0.001693245	0.302556988	0.036455097	0.041501353	0.477271965	0.01818487
SAN BERNA	2023	MHDT	Aggregate	15	Diesel	14538.67	3.47718136	0.003765885	0.003936162	1515.134453	0.000940299	0.238158036	0.020244379	0.023046684	0.259833667	0.014314239

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	Diesel %	Trips	PM2.5_RUNEX	PM10_RUNEX	TOG_RUNEX	TOG_RUNLOSS
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	Gasoline	929038.6075	38321202.19	38321202.19	0%	4374906.394	0.001249918	0.00135939	0.011865323	0.212348769
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	Diesel	8375.718747	365072.8376	365072.8376	82%	39999.73792	0.005649093	0.00590452	0.013645312	0
							38686275.03	72.3%						
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	Gasoline	98412.43484	3525890.088	3525890.088	0%	446995.4746	0.00183063	0.001990917	0.039224273	0.817457327
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	Diesel	46.41834701	846.8439543	846.8439543	0.2%	150.9529339	0.14420396	0.150724223	0.221783614	0
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	Gasoline	301046.0155	11239619.24	11239619.24	0%	1399637.614	0.001322026	0.001437799	0.022880177	0.473052184
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	Diesel	1831.594308	78774.08743	78774.08743	18%	9012.703385	0.004690028	0.00490209	0.016230968	0
							14845130.26	27.7%	444694			Gasoline Avg EF	0.024656591	0.50095276
								Diesel Wt EF	0.006002732					

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM10_RUNEX	PM10_IDLEX
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	Diesel	29526.78504	4258567.766	4258567.766	345800.8323	0.025071067	0.03295525	0.026204669	0.03444534
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	Diesel	17836.69738	1242349.304	1242349.304	176235.4069	0.008211281	0.004045233	0.008582559	0.00422814
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	Diesel	23193.36631	818620.8796	818620.8796	291743.3709	0.019182073	0.026272924	0.020049401	0.027460869
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	Diesel	8744.903608	309655.4536	309655.4536	109999.8863	0.018283411	0.026365952	0.019110106	0.027558104
									Average	0.018732742	0.026319438	0.019579754	0.027509487

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: County
Region: San Bernardino
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	N2O_RUNEX	N2O_IDLEX	N2O_STREX	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
SAN BERNA	2023	HHDT	Aggregate	Aggregate	Gasoline	7.80192	902.9373	156.1008	4.131842628	0	0.645749031	0.001609541	0	0.001152246	0.005000001	0.026460008	0.00175023	0	0.001253172	0.020000006	0.061740018	1951.369134	0	46.71819347	0.114667929	0	0.000349833	0.145242548	0	0.018376046	0.623892127	0	0.00181332	0.197516138	0.996329919	0.072337992	0.1270647	0.910381927	0	0.001985358	0.197516138	0.996329919	0.072337992	0.1270647	38.80748486	0	5.215119408	0.019310379	0	0.000462314
SAN BERNA	2023	HHDT	Aggregate	Aggregate	Diesel	29526.79	4258568	345800.8	2.142049754	83.61940774	2.358047716	0.025071067	0.03295525	0	0.008915594	0.026211848	0.026204669	0.03444534	0	0.035662378	0.061160978	1286.58316	16745.77303	0	0.000915607	0.322356547	0	0.202233956	2.633220321	0	0.019712758	6.940248063	0	0	0	0	0	0.022441475	7.90094412	0	0	0	0	0	0	0.174992017	102.1324749	0	0.012155	0.15820576	0
SAN BERNA	2023	LDA	Aggregate	Aggregate	Gasoline	929038.6	38321202	4374906	0.034585865	0	0.179683693	0.001249918	0	0.0016811	0.002000001	0.015750005	0.00135939	0	0.001828309	0.008000002	0.036750011	258.1216564	0	53.79595416	0.002194977	0	0.049012381	0.004237184	0	0.025565289	0.008133624	0	0.213065745	0.09964924	0.212348769	0.21888054	0.273535036	0.011865323	0	0.2332795	0.09964924	0.212348769	0.21888054	0.273535036	0.615736095	0	2.151494387	0.002564219	0	0.000532355
SAN BERNA	2023	LDA	Aggregate	Aggregate	Diesel	8375.719	365072.8	39999.74	0.058388333	0	0	0.005649093	0	0	0.002000001	0.015750005	0.00590452	0	0.008000002	0.036750011	193.7195637	0	0	0.000556729	0	0	0.030450018	0	0	0.011986042	0	0	0.013645312	0	0	0	0	0.186029597	0	0	0.013645312	0	0	0	0	0.186029597	0	0.001831347	0	0	0
SAN BERNA	2023	LDT1	Aggregate	Aggregate	Gasoline	98412.43	3525890	446995.5	0.111393587	0	0.277495558	0.00183063	0	0.002447806	0.002000001	0.015750005	0.001990917	0	0.002662094	0.008000002	0.036750011	303.7222916	0	64.12643577	0.006130738	0	0.077428346	0.008447837	0	0.02964783	0.02688652	0	0.392815711	0.24520671	0.817457327	0.568919552	0.806945255	0.039224273	0	0.430082874	0.24520671	0.817457327	0.568919552	0.806945255	1.283433273	0	2.362904389	0.003005578	0	0.000634583
SAN BERNA	2023	LDT1	Aggregate	Aggregate	Diesel	46.41835	846.844	150.9529	1.09011564	0	0	0.14420396	0	0	0.002000001	0.015750005	0.150724223	0	0	0.008000002	0.036750011	399.1718369	0	0	0.009048772	0	0	0.062744254	0	0	0.194814726	0	0	0	0	0	0	0	1.192881305	0	0	0	0	0	0	0	1.192881305	0	0.003773609	0	0	0
SAN BERNA	2023	LDT2	Aggregate	Aggregate	Gasoline	301046	11239619	1399638	0.079565955	0	0.287705058	0.001322026	0	0.001746501	0.002000001	0.015750005	0.001437799	0	0.001899428	0.008000002	0.036750011	322.7360954	0	68.96610291	0.003854772	0	0.069631951	0.006573159	0	0.032220707	0.015682978	0	0.325603894	0.143440196	0.473052184	0.384687388	0.465645179	0.022880177	0	0.356494813	0.143440196	0.473052184	0.384687388	0.465645179	0.899945239	0	2.728729758	0.003193735	0	0.000682475
SAN BERNA	2023	LDT2	Aggregate	Aggregate	Diesel	1831.594	78774.09	9012.701	0.039865435	0	0	0.004690028	0	0	0.002000001	0.015750005	0.00490209	0	0	0.008000002	0.036750011	260.3701083	0	0	0.000662224	0	0	0.004257282	0	0	0.004926555	0	0	0	0	0	0	0.016230968	0	0	0	0	0	0	0	0.121834273	0	0	0.002461434	0	0
SAN BERNA	2023	LHDT1	Aggregate	Aggregate	Gasoline	24792.49	832047.9	369371.2	0.239616574	0.038204903	0.530551738	0.001164851	0	0.000413505	0.002000001	0.032760009	0.001266881	0	0.000449725	0.008000002	0.076440022	798.6447644	121.0254187	18.95495695	0.007601945	0.121627996	0.026515171	0.013937379	0.003105739	0.041331398	0.037119525	0.437418959	0.132695862	0.150311297	1.022407701	0.039356801	0.080292313	0.054164723	0.638280719	0.145285266	0.150311297	1.022407701	0.039356801	0.080292313	0.988277719	3.746224226	1.7817485	0.007903237	0.001197645	0.000187575
SAN BERNA	2023	LHDT1	Aggregate	Aggregate	Diesel	23193.37	818620.9	291743.4	2.576255734	2.166991884	0	0.019182073	0.026272924	0	0.003000001	0.032760009	0.020049401	0.027460869	0	0.012000003	0.076440022	478.0267538	135.3602238	0	0.004143522	0.005098128	0	0.089207599	0.109759705	0	0	0	0	0	0	0	0	0.101556921	0.124954127	0	0	0	0	0	0	0.608004525	0.909745076	0	0.004519072	0.001279641	0
SAN BERNA	2023	LHDT2	Aggregate	Aggregate	Gasoline	4042.309	134715.2	60224.38	0.194342624	0.038440827	0.539859286	0.000951313	0	0.000311899	0.002000001	0.038220011	0.00103464	0	0.000339219	0.008000002	0.089180026	916.371718	139.703394	21.48000631	0.004375102	0.124211067	0.025127593	0.01270516	0.003124937	0.041853965	0.019141498	0.440755899	0.123415575	0.124330554	0.759699536	0.032435171	0.061944667	0.027931228	0.643149974	0.13512452	0.124330554	0.759699536	0.032435171	0.061944667	0.502682185	3.761574068	1.6544264	0.009068241	0.001382478	0.000212562
SAN BERNA	2023	LHDT2	Aggregate	Aggregate	Diesel	8744.904	309655.5	109999.9	2.065838633	2.151182854	0	0.018283411	0.026365952	0	0.003000001	0.038220011	0.019110106	0.027558104	0	0.012000003	0.089180026	519.4338738	217.020889	0	0.003561335	0.005098128	0	0.081647771	0.034112662	0	0.076673451	0.109759705	0	0	0	0	0	0.087287626	0.124954127	0	0	0	0	0	0	0.512323009	0.909745076	0	0.004910518	0.002051628	0
SAN BERNA	2023	MHDT	Aggregate	Aggregate	Gasoline	2406.141	152847.6	48142.06	0.358890708	0.089291935	0.35913949	0.000933102	0	0.000412785	0.003000001	0.055860016	0.001014834	0	0.000448941	0.012000003	0.130340037	1628.197881	537.6709681	38.1258649	0.009729454	0.271401238	0.038844639	0.019328549	0.008080494	0.030015554	0.046097202	1.003254992	0.200716447	0.085128009	0.464405377	0.026199426	0.050819798	0.067264929	1.46394733	0.219759244	0.085128009	0.464405377	0.026199426	0.050819798	1.160603011	14.36278537	4.349347171	0.016112338	0.005320069	0.000377286
SAN BERNA	2023	MHDT	Aggregate	Aggregate	Diesel	17836.7	1242349	176235.4	1.051143665	4.614527699	2.122578025	0.008211281	0.004045233	0	0.003000001	0.055860016	0.008582559	0.00422814	0	0.012000003	0.130340037	882.5002439	755.7859833	0	0.000334422	0.003055583	0	0.138716749	0.118799032	0	0.007630614	0.065785858	0	0	0	0	0	0.008686873	0.074892192	0	0	0	0	0	0	0.064399562	2.379735559	0	0.008337425	0.007140291	0

APPENDIX C

DETAILED ENERGY CALCULATIONS

Construction Off-Road Equipment										
Phase	**Off-Road Equipment Type**	**Amount**	**Usage Hour/Day**	**Total Usage Days**	**Total Usage Hours/Equipment**	**Horsepower**	**Load Factor**	**Total Usage Hours/ Equipment**	**Horsepower-Hour**	**Fuel Usage (gallons)**
Demolition	Concrete/Idustrial Saws	1	8	20	160	33	0.73	160	3854.4	197.34528
	Excavators	3	8	20	480	36	0.38	480	6566.4	336.19968
	Rubber Tired Dozers	2	8	20	320	367	0.4	320	46976	2405.1712
Site Preparation	Rubber Tired Dozers	3	8	15	360	367	0.4	360	52848	2705.8176
	Tractors/Loaders/Backhoes	4	8	15	480	84	0.37	480	14918.4	763.82208
Grading	Excavators	2	8	15	240	36	0.38	240	3283.2	168.09984
	Graders	1	8	15	120	148	0.41	120	7281.6	372.81792
	Rubber Tired Dozers	1	8	15	120	367	0.4	120	17616	901.9392
	Scrapers	2	8	15	240	423	0.48	240	48729.6	2494.95552
	Tractors/Loaders/Backhoes	2	8	15	240	84	0.37	240	7459.2	381.91104
Building Construction	Cranes	1	7	150	1050	367	0.29	1050	111751.5	5721.6768
	Forklifts	3	8	150	3600	82	0.2	3600	59040	3022.848
	Generator Sets	1	8	150	1200	14	0.74	1200	12432	636.5184
	Tractors/Loaders/Backhoes	3	7	150	3150	84	0.37	3150	97902	5012.5824
	Welders	1	8	150	1200	46	0.45	1200	24840	1271.808
Paving	Pavers	2	8	10	160	81	0.42	160	5443.2	278.69184
	Paving Equipment	2	8	10	160	89	0.36	160	5126.4	262.47168
	Rollers	2	8	10	160	36	0.38	160	2188.8	112.06656
Architectural Coating	Air Compressors	1	6	75	450	37	0.48	450	7992	409.1904
									Total	**27455.93344** Diesel

Construction Truck and Construction Worker Vehicle Fuel Efficiency				
		EMFAC 2021 Outputs		
Vehicle Type	Vehicle Class	Fuel Consumption (1,000 gallons/day)	VMT (miles/ day)	Fuel Efficency (miles/gallon)
Construction Truck	MHDT	90.2	809994.5	9.0
	HHDT	716.5	4383825	6.1
	HHDT/MHDT	-	-	7.5
Construction Worker Vehicle	LDA	1118.2	33024788.0	29.5
	LDT1	101.1	2460565	24.3
	LDT2	565.3	13590074	24.0
	Worker Mix	-	-	26.9

Notes:

[1] For construction trucks assumes 50 percent HHDT and 50 percent MHDT vehicles, consistent with assumptions in CalEEMod for hauling trucks. For construction worker vehicles assumes 50 percent LDA, 25 percent LDT1, and 25 percent LDT2 vehicles, consistent with assumptions in CalEEMod for worker vehicles.

[2] EMFAC2021 was run for San Bernardino County for the construction year 2024. Data was aggregated over all vehicle model years and speed bins.

[3] The fuel efficiency was calculated by dividing the VMT (miles/day) by the fuel consumption (gallons/day).

Construction Vehicle Fuel Use - Diesel Vehicles						
Phase	Trip Type	Total Trips	Trip Length (miles)	Total VMT	Diesel Fuel Effiency (miles/gallon)	Fuel Usage (gallons/year)
Demolition	Hauling	1380	20	27600	6.1	4524.6
Grading	Hauling	2187	20	43740	6.1	7170.5
Building Construction	Vendor	24120	10.2	246024	7.5	32803.2
					Total	**44498.3**

Diesel

[1] Assumes 100 percent HHDT vehicles for haul trucks and 50 percent HHDT/50 percent MHDT vehicles for MHDT, consistent with assumptions in CalEEMod.

[2] EMFAC2021 was run for San Bernardino County for the construction year 2024. Data was aggregated over all vehicle model years and speed bins.

[3] The fuel efficiency was calculated by dividing the VMT (miles/day) by the fuel consumption (gallons/day).

Construction Worker Vehicle Fuel Use - Gasoline Vehicles							
Phase	Total One-Way Trips/Day	Total Days	Total Trips	Trip Length (miles)	Total VMT	Gasoline Fuel Effiency (miles/gallon)	Fuel Usage (gallons/year)
Demolition	15	20	600	18.5	11100	26.9	412.6
Site Preparation	17.5	15	525	18.5	9712.5	26.9	361.1
Grading	20	15	600	18.5	11100	26.9	412.6
Building Construction	206	150	61800	18.5	1143300	26.9	42501.9
Paving	15	10	300	18.5	5550	26.9	206.3
Architectural Coating	41.2	75	6180	18.5	114330	26.9	4250.2
						Total	**48144.7**

Gas

Total Construction Gasoline Usage	48144.7
Total Construction Diesel Usage	71954.2

Proposed Project Operational Trips			
Vehicle Class	CalEEMod	Total Project Trips	Total Trips per Vehicle Class
LDA	0.4901	603	295.5
LDT1	0.04056	603	24.5
LDT2	0.2044	603	123.3
MDV	0.154	603	92.9
LHD1	0.02889	603	17.4
LHD2	0.007854	603	4.7
MHD	0.053	603	32.0
HHD	0	603	0.0
OBUS	0	603	0.0
UBUS	0	603	0.0
MCY	0.0211	603	12.7
SBUS	0	603	0.0
MH	0	603	0.0

Proposed Project Operational Trips – Fuel Efficiency						
Fuel	Vehicle Class	EMFAC2021 Outputs1				
		Fleet Mix (%)2	Consumption (1,000 gallons/day)	VMT (miles/day)	Fuel Efficiency3 (miles/gallon)	
Gas	LDA	54%	1,088.4	32,810,290.0	30.1	16.4
	LDT1	4%	97.1	2,409,959.0	24.8	1.0
	LDT2	23%	564.2	13,929,503.0	24.7	5.7
	MDV	16%	498.7	9,921,873.0	19.9	3.3
	LHD1	2%	80.9	1,108,491.0	13.7	0.3
	MCY	0%	5.4	226,907.6	41.6	0.2
	MH	0%	11.1	53,536.5	4.8	0.0
	Fleet Mix	–	–	–	26.7	26.7
Diesel	LHD2	6%	21.3	365,990.4	17.2	1.1
	MHDT	15%	90.9	820,207.1	9.0	1.3
	HHDT	79%	718.8	4,470,291.0	6.2	4.9
	Fleet Mix	–	–	–	7.3	7.3

Notes:

[1] EMFAC2021 was run for San Bernardino County for the operational year 2025. Data was aggregated over all vehicle model years and speed bins.

[2] Fleet mix is based on assumptions made in CalEEMod for the proposed project.

[3] The fuel efficiency was calculated by dividing the VMT (miles/day) by the fuel consumption (gallons/day).

Proposed Project Operational Trips – Fuel Usage						
Land Use	Total Annual VMT2 (miles/year)	Fuel Type	Portion of Fleet3 (%)	VMT by Fuel Type (miles/year)	Fleet Mix Efficiency4 (miles/gallon)	Fuel Usage (gallons/ year)
Warehouse	2,911,158.00	Gas	94%	2733723	26.7	102335.7
		Diesel	6%	177156	7.3	24149.9
Warehouse HHDT	1,216,180.00	Diesel	100%	1216180	6.2	195561.6
					Total Gasoline/year	**102335.7**
					Total Diesel/year	**219711.5**

Notes:

[1] Calculated for operational year 2025 only. Future years will likely use less fuel due to more efficient cars.

[2] Total VMT is based on project's trip generation and trip lengths.

[3] Fleet distribution is based on EMFAC2021 output and CalEEMod assumptions.

[4] Fuel efficiency is based on fuel consumption and VMT data from EMFAC2021 for Riverside County and total VMT.

Electricity Usage	
Electricity by Land Use	**kWh/year**
Unrefrigerated Warehouse	2265913
Parking Lot	174766
Total	**2,440,679**

Natural Gas Usage			
Natural Gas by Land Use	**kBTU/year**	**BTU/year**	**therms/year**
unrefrigerated warehouse	-	-	-
Parking Lot	0	0	0
Total	**-**	**-**	**-**

Existing Uses Operational Trips			
Vehicle Class	CalEEMod	Total Project Trips	Total Trips per Vehicle Class
LDA	0.5053	387	195.6
LDT1	0.04312	387	16.7
LDT2	0.1963	387	76.0
MDV	0.1557	387	60.3
LHD1	0.0296	387	11.5
LHD2	0.007934	387	3.1
MHD	0.0168	387	6.5
HHD	0.0165	387	6.4
OBUS	0.000644	387	0.2
UBUS	0.000319	387	0.1
MCY	0.02135	387	8.3
SBUS	0.001097	387	0.4
MH	0.005093	387	2.0

Existing Uses Operational Trips – Fuel Efficiency						
Fuel	Vehicle Class	EMFAC2021 Outputs1				
		Fleet Mix (%)2	Consumption (1,000 gallons/day)	VMT (miles/day)	Fuel Efficiency3 (miles/gallon)	
Gas	LDA	55%	1,140.9	33,073,440.0	29.0	16.0
	LDT1	4%	104.7	2,503,906.0	23.9	1.0
	LDT2	22%	561.9	13,160,213.0	23.4	5.1
	MDV	16%	520.9	9,891,875.0	19.0	3.1
	LHD1	2%	86.1	1,119,164.0	13.0	0.2
	MCY	0%	5.6	229,041.2	41.3	0.2
	MH	0%	12.5	60,515.3	4.8	0.0
	Fleet Mix	–	–	–	25.6	25.6
Diesel	LHD2	7%	21.6	366,079.8	17.0	1.1
	MHDT	15%	88.8	797,273.2	9.0	1.3
	HHDT	79%	711.5	4,294,976.0	6.0	4.7
	Fleet Mix	–	–	–	7.2	7.2

Notes:

[1] EMFAC2021 was run for San Bernardino County for the operational year 2023. Data was aggregated over all vehicle model years and speed bins.

[2] Fleet mix is based on assumptions made in CalEEMod for the proposed project.

[3] The fuel efficiency was calculated by dividing the VMT (miles/day) by the fuel consumption (gallons/day).

Existing Uses Operational Trips – Fuel Usage						
Land Use	Total Annual VMT2 (miles/year)	Fuel Type	Portion of Fleet3 (%)	VMT by Fuel Type (miles/year)	Fleet Mix Efficiency4 (miles/gallon)	Fuel Usage (gallons/ year)
Warehouse	1,434,088.00	Gas	96%	1373683	25.6	53587.3
		Diesel	4%	59133	7.2	8213.6
					Total Gasoline/year	**53587.3**
					Total Diesel/year	**8213.6**

Notes:

[1] Calculated for operational year 2023 only. Future years will likely use less fuel due to more efficient cars.

[2] Total VMT is based on project's trip generation and trip lengths.

[3] Fleet distribution is based on EMFAC2021 output and CalEEMod assumptions.

[4] Fuel efficiency is based on fuel consumption and VMT data from EMFAC2021 for Riverside County and total VMT.

Existing Uses Electricity Usage	
Electricity by Land Use	**kWh/year**
Single Family Housing	304385
Total	**304,385**

Existing Uses Natural Gas Usage			
Natural Gas by Land Use	**kBTU/year**	**BTU/year**	**therms/year**
Single Family Housing	1,251,589	1,251,589,000	12,518
Total	**1,251,589**	**1,251,589,000**	**12,518**